

SELF ASSESSMENT REPORT (SAR)

FOR

B.E ELECTRONICS AND COMMUNICATION ENGINEERING (TIER-I)

Department of ECE
SONA COLLEGE OF TECHNOLOGY
(Autonomous Institution)

Junction Main Road, SALEM - 636 005 - India

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PART A INSTITUTIONAL INFORMATION

PART A: Institutional Information

1. Name and Address of the Institution:					
SONA COLLEGE OF TEC Junction Main Road, Suramangalam (PO), Salem – 636005	CHNOLOGY				
2. Name and Address of the Affiliating	University:				
ANNA UNIVERSITY Chennai – 600 025					
3. Year of establishment of the Institut	ion:	1997			
4. Type of the Institution:					
Institute of					
National					
Importance					
University					
Deemed University					
Autonomous	✓				
Any other (Please specify)					
5. Ownership Status:					
Central Government					
State Government					
Government Aided					
Self financing	\checkmark				
Trust Society	✓				
Section 25 Company					
Any Other (Please specify)					

6. Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of the Institution(s)	Year of Establishment	Programs of Study	Location	
Thiagarajar Polytechnic College	1958	Diploma	Salem	
Sona College of Arts and Science	2017	Degree	Salem	

7. Details of all the programs being offered by the institution under consideration:

S. No.	Program Name	Name of the Department	Year of Start	Intake	Increase/ Decrease in intake, if any	Year of Increase /Decrease	AICTE Approva I	Accreditation Status*
1	Under Graduate Engineering	Mechanical Engineering	1997	180	Increase 120 intake	2012	upto 30 th April 2019	Accredited 3 Years 01.07.2017 to 30.06.2019
2	Under Graduate Engineering	Electrical and Electronics Engineering	1997	120	Increase 60 intake	2011	upto 30 th April 2019	Accredited 6 Years 01.07.2017 to 30.06.2022
3	Under Graduate Engineering	Computer Science and Engineering	1997	180	Increase 60 intake	2016	upto 30 th April 2019	Inspection Date Confirmed
4	Under Graduate Engineering	Information Technology	1998	120	Increase 60 intake	2011	upto 30 th April 2019	Inspection Date Confirmed
5	Under Graduate Engineering	Electronics and Communication engineering	1999	180	Increase 60 intake	2015	upto 30 th April 2019	Inspection Date Confirmed
6	Under Graduate Engineering	Civil Engineering	2002	120	Increase 60 intake	2010	upto 30 th April 2019	Inspection Date Confirmed
7	Under Graduate Engineering	Fashion Technology	2005	120	Increase 60 intake	2014	upto 30 th April 2019	Accredited 3 Years 01.07.2017 to 30.06.2019
8	Under Graduate Engineering	Mechatronics	2018	60	-	-	upto 30 th April 2019	Not Eligible
9	Post Graduate Engineering	Computer Science and Engineering	2002	18	Decrease 12 Intake	2018	upto 30 th April 2019	Not Accredited

10	Post Graduate Engineering	Engineering Design	2004	18	-	-	upto 30 th April 2019	Not Accredited
11	Post Graduate Engineering	Power Systems Engineering	2004	18	Decrease 12 Intake	2018	upto 30 th April 2019	Not Accredited
12	Post Graduate Engineering	Power Electronics and Drives	2005	18	-	-	upto 30 th April 2019	Not Accredited
13	Post Graduate Engineering	Product Design and Development	2005	18	-	-	upto 30 th April 2019	Not Accredited
14	Post Graduate Engineering	Software Engineering	2005	18	-	-	upto 30 th April 2019	Not Accredited
15	Post Graduate Engineering	VLSI Design	2005	18	Decrease 12 Intake	2018	upto 30 th April 2019	Not Accredited
16	Post Graduate Engineering	Communication Systems	2005	18	-	-	upto 30 th April 2019	Not Accredited
17	Post Graduate Engineering	Structural Engineering	2011	24	-	-	upto 30 th April 2019	Not Accredited
18	Post Graduate Engineering	Information Technology	2012	18	1	ı	upto 30 th April 2019	Not Accredited
19	Post Graduate Engineering	Industrial Safety and Engineering	2015	24	1	-	upto 30 th April 2019	Not Eligible
20	Post Graduate Engineering	Construction Engineering and Management	2015	24	-	-	upto 30 th April 2019	Not Eligible
21	MBA	Masters in Business Administration	1998	180	-	-	upto 30 th April 2019	Inspection Awaited
22	MCA	Masters in Computer Application	2000	60	Decrease 60 Intake	2017	upto 30 th April 2019	Not Accredited

8. Programs to be considered for Accreditation vide this application

S. No.	Program Name
1	BE Civil Engineering
2	BE Computer Science and Engineering
3	BE Electronics and Communication Engineering
4	B Tech Information Technology

9. Total number of employees:

A. Regular Employees (Faculty and Staff):

Items		2017-18		2016-17		2015-16	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	153	156	140	146	137	146
	F	89	90	70	75	69	73
Faculty in Maths, Science & Humanities teaching in engineering	M	22	23	24	27	26	26
Programs	F	28	28	36	35	34	32
Non-teaching staff	M	168	168	164	157	170	169
	F	60	61	52	54	51	51

B. Contractual Staff Employees (Faculty and Staff): (Not covered in Table A):

		2017	2017-18		2016-17		5-16	
Items		Min	Max	Min	Max	Min	Max	
Faculty in Facinessian	М		•			•		
Faculty in Engineering	F							
Faculty in Maths, Science			NOT ADDITION DE					
&Humanities teaching in engineering Programs	F	NOT APPLICABLE						
Non tooching staff	M							
Non-teaching staff	F							

10. Total number of Engineering Students:

(i) Under Graduate - Engineering

Item	2017-18	2016-17	2015-16
Total no. of boys	2318	2205	2693
Total no. of girls	1644	1665	2135
Total no. of students	3962	3870	4828

(ii) Post Graduate - Engineering

Item	2017-18	2016-17	2015-16
Total no. of boys	138	119	168
Total no. of girls	101	89	124
Total no. of students	239	208	292

11. Vision of the Institution:

SONA's VISION

 To become an institute of great repute, in the fields of Science, Applied Science, Engineering, Technology and Management studies, by offering a full range of programmes of global standard, to foster research, and to transform the students into globally competent personalities

12. Mission of the Institution:

SONA's MISSION

- To offer Graduate, Post-graduate, Doctoral and other value-added programmes beneficial for the students
- To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning, and supplementary processes
- To provide Faculty and Staff with the required qualification and competence and to provide opportunity to upgrade their knowledge and skills
- To motivate the students to pursue higher education, competitive exams, and other value added programmes for their holistic development
- To provide opportunity to the students to bring out their inherent talent
- To establish Centres of excellence in the emerging areas of research
- To have regular interaction with the Industries in the area of R & D, and offer consultancy, training and testing services
- To offer Continuing education, and Non-formal vocational education programmes beneficial to the society.

13. Contact Information of the Head of the Institution and NBA Coordinator, if designated:

(i) Name : Dr.S.R.R.Senthil Kumar

Designation : Principal

Mobile No : 9443366495

Email id : principal@sonatech.ac.in

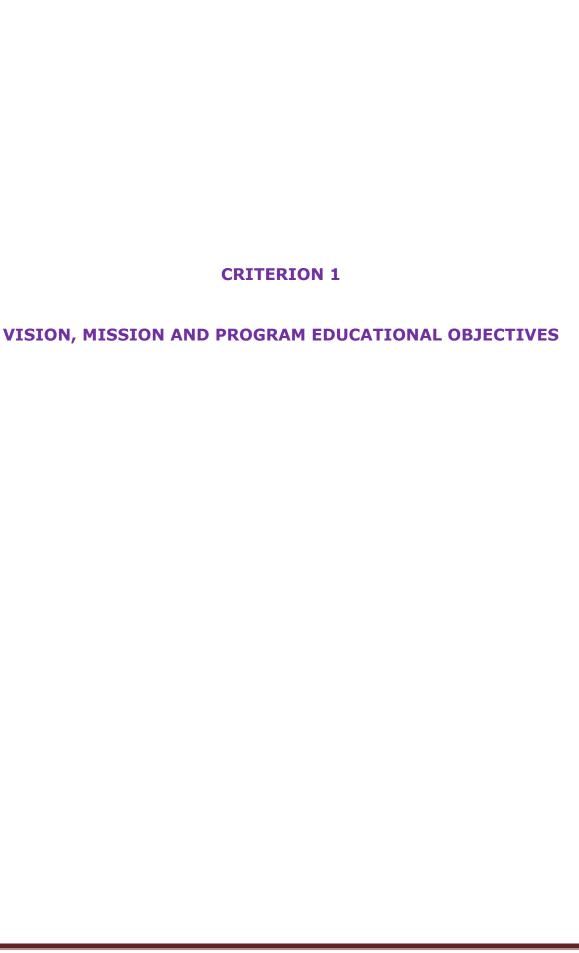
(ii) NBA Coordinator : Dr.C.V.Koushik

Designation : Director - Academics

Mobile No : 9443193906

Email id : cvkoushik@sonatech.ac.in

PART B PROGRAM LEVEL CRITERIA



1.1 State the Vision and Mission of the Department and Institute (5)

SONA'S VISION

To become an institute of great repute, in the fields of Science, Applied Science, Engineering, Technology and Management studies, by offering a full range of Programs of global standard, to foster research, and to transform the students into globally competent personalities

SONA'S MISSION

- To offer Graduate, Post-graduate, Doctoral and other value-added Programs beneficial for the students
- To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning, and supplementary processes
- To provide faculty and staff with the required qualification and competence and to provide opportunity to upgrade their knowledge and skills
- To motivate the students to pursue higher education, competitive exams, and other value-added Programs for their holistic development
- To provide opportunity to the students to bring out their inherent talent
- To establish centres of excellence in the emerging areas of research
- To have regular interaction with industries in the areas of R & D, and offer consultancy, training and testing services
- To offer continuing education, and non-formal vocational education
 Programs beneficial to the society

Mission and Vision of the Department

Vision

To be recognized by the society at large as a full- fledged department, offering quality higher education in the Electronics and Communication Engineering field with research focus catering to the needs of the stakeholders and staying in tune with the advancing technological revolution and cultural changes.

Mission

To achieve the vision, the department will

- Establish a unique learning environment to enable the students to face the challenges in Electronics and Communication Engineering field.
- Promote the establishment of centres of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students.
- Provide ethical and value-based education by promoting activities addressing the societal needs.
- Enable students to develop skills to solve complex technological problems and provide a framework for promoting collaborative and multidisciplinary activities.

1.2. State the Program Educational Objectives (PEOs) (5)

Program Educational Objectives (PEOs) are established through a consultation process. PEOs are broad statements that describe the career and professional accomplishments that the graduates should achieve within three to five years after the year of graduation.

The Electronics and Communication Engineering Program graduates will

PEO 1

Practice the ethics of their profession, consistent with a sense of social responsibility and develop their engineering design, problem-solving skills and aptitude for innovations as they work individually and in multi-disciplinary teams.

PEO 2

Communicate effectively and manage resources skillfully as members and leaders of the profession.

PEO 3

Be receptive to new technologies and attain professional competence through lifelong learning such as advanced degrees, professional registration, publications and other professional activities.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

The Mission and Vision are published/ disseminated at

- Department website http://www.sonatech.ac.in/ece/
- College website http://www.sonatech.ac.in/
- Curriculum / syllabus books
- HOD cabin
- Departmental Notice Boards
- Class Rooms
- Faculty Rooms
- Laboratories
- Faculty Record Book
- Lab Manual
- Display boards
- Brochures of National and International conferences
- Brochures of Seminars
- Brochures of Workshops

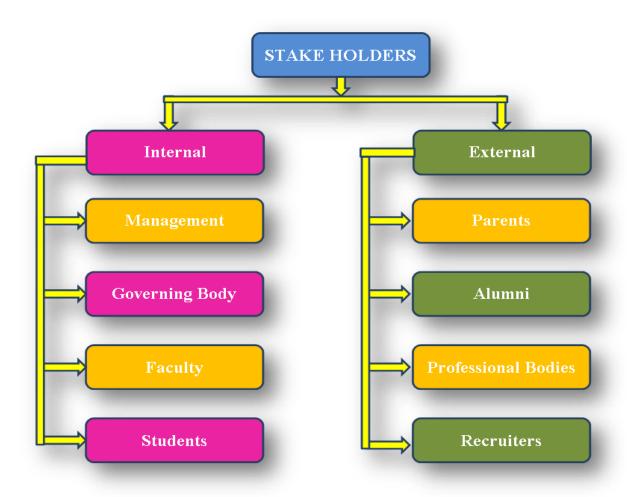


Fig 1.1 Stake holders involved in defining the vision, mission and PEOs

1.4. State the process for defining the Vision and Mission of the Department and PEOs of the Program (15)

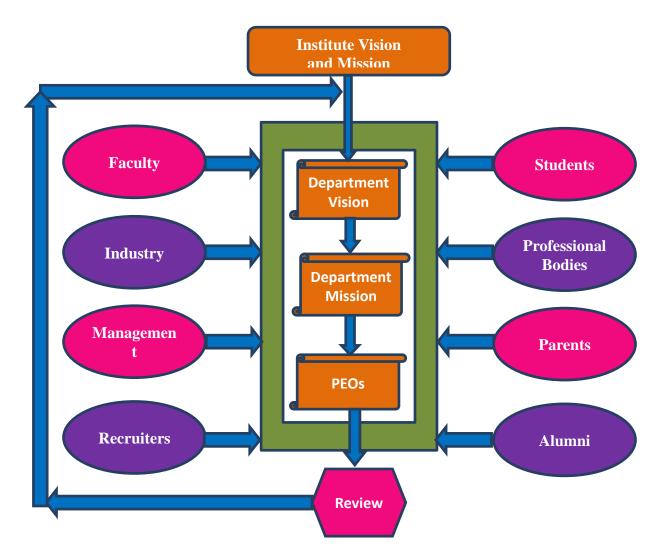


Fig 1.4 Process of defining PEOs

The vision and mission statements of the department are established through a thorough consultation process by involving the stakeholders (Faculty members, students, alumni, recruiters, parents and professional bodies) of the department.

Process for defining Program Educational Objectives:

The Program Educational Objectives are established through a consultation process involving the core constituents such as students, alumni, industry and faculty members. The PEOs are established through the following steps:

Step1: Vision and Mission of the department are taken as basis to interact with various stake holders.

Step2: Program coordinators and various committee members discussed the key constituents and collected and submitted the views to Department Consultative Committee (DCC) and Department Academic committee (DAC).

Step3: The Committees summarized the collected views and express its opinion on the views and forwarded the same to the Head of the Department.

Step4: The Department Head deliberated on the views expressed by the Committee and formulated the accepted views based on which PEOs were established.

The detailed member list of Class counsellors, DCC and DAC is attached in **Annexure 1.4.**

1.5. Establish consistency of PEOs with Mission of the Department (10)

Mission of the Department

To achieve the vision the department will

Mission 1: Establish a unique learning environment to enable the students to face the challenges in the Electronics and Communication Engineering field.

Mission 2: Promote the establishment of centres of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students.

Mission 3: Provide ethical and value-based education by promoting activities addressing the societal needs.

Mission 4: Enable students to develop skills to solve complex technological problems and provide a framework for promoting collaborative and multidisciplinary activities

Consistency of PEOs with Mission of the Department

PEO Statements	M1	M2	М3	M4
PEO 1: Practice the ethics of their profession consistent with a sense of social responsibility and develop their engineering design, problem-solving skills and aptitude for innovations as they work individually and in multi-disciplinary teams	2	3	3	3
PEO 2: Communicate effectively and manage resources skillfully as members and leaders of the profession.	2	2	2	2
PEO 3: Be receptive to new technologies and attain professional competence through lifelong learning such as advanced degrees, professional registration, publications and other professional activities.	3	2	2	3

- 3 Strong Correlation 2 Moderate Correlation 1 Weak Correlation
- ❖ PEO1 is strongly mapped with the mission statements 2, 3 and 4 because it fulfills the objectives of the multidisciplinary activities related to technology, innovation and creativity.
- ❖ **PEO2** is moderately mapped with all the mission statements because it focuses on leadership quality and complies with the outcomes of interdisciplinary activities.
- ❖ **PEO3** is also strongly mapped with the mission statements 1 & 3 because it focuses on the attainment of professional competencies related to the latest technological advancement.

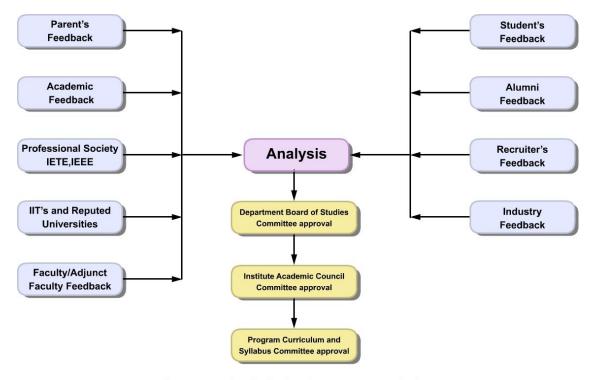
CRITERION 2 PROGRAM CURRICULUM AND TEACHING LEARNING PROCESSES

2.1 Program Curriculum (30)

2.1.1 State the process for designing the program curriculum (10)

Sona College of Technology is an autonomous institution affiliated under Anna University, Chennai. The B.E. Electronics and Communication program curriculum is approved by the board of studies expert members and Institute academic council committee.

In general, Curriculum maintains the balance in the composition of Basic Science, Engineering Sciences, Humanities and Social Sciences, Program Core, Program Electives, Open Electives, Projects Work and Employability Enhancement. The feedback from the alumni members, faculty, students, recruiters and industry experts were taken and the short-comings were identified along with the data collected from IIT's and other reputed National & International universities though their websites, Professional Society's (IEEE, IETE). Analysis is done for attaining the PO/PSO's through the curriculum. Then the curriculum and syllabus are presented to the Board of studies expert members for approval. The final approval of curriculum and syllabus is done by Institute academic council committee, as and when required.



The process for designing the program curriculum

Fig 2.1 The process for designing the program curriculum

2.1.2 Structure of the Curriculum (5)

Curriculum for the regulations 2010R is given below, as the latest graduated batch (2013-17) followed this regulations. The curriculum for the other regulations are given in the **Annexure 2.1.2.**

S.No.	Regulations	Batch
1.	2015R	2016-2020
2.	2015	2015-2019
3.	2014	2014-2018
		2011-2015
4.	2010R	2012-2016
		2013-2017
5.	2010	2010-2014

Regulations - 2014

Code (Course Title				Total Number of contact hours				
Code		Lecture	Tutorial	Practical	Total	Credits			
		(L)	(T)	(P)	Hours				
U14ENG101	echnical	3	0	1	4	3			
Er	nglish – I								
	ultivariable	3	1	0	4	4			
	alculus and								
	atrices								
U14PHY103	ngineering	3	0	0	3	3			
	nysics								
U14CHE104	ngineering	3	0	0	3	3			
	hemistry								
	undamentals of	3	0	0	3	3			
	omputing								
	ystems		-	_		_			
	asic Electrical	3	1	0	4	3			
U14BEE106 &									
	ectronics 								
	ngineering	•	•			2			
	nysics &	0	0	3	3	2			
	hemistry								
	aboratory-I	0	0	3	3	2			
	omputer ractices	U	U	3	3	2			
	aboratory								
	ngineering	0	0	3	3	2			
	ractices	O	O	3		2			
	aboratory								
	echnical	3	0	1	4	3			
U14FNG201	nglish – II	3	Ü	-	·	3			
	ector Calculus,	3	1	0	4	4			
	ifferential			-					
U14MAT202 Ed	quations and								
Co	omplex								
	nalysis								
M	aterials	3	0	0	3	3			
U14PHY203	cience								
LI14CHE20E4 CI	hemistry for	3	0	0	3	3			
U14CHE205A EI	ectrical and								

	Electronics					
	Engineers					
U14CPR206	Programming in	3	0	0	3	3
	С					
U14EGR207	Engineering	2	0	2	4	3
	Graphics					
	Physics &	0	0	3	3	2
U14PCL208	Chemistry					
	Laboratory- II					
U14CPL209	C programming	0	0	3	3	2
	Laboratory					
	Basic Electrical	0	0	3	3	2
U14BEEl209	and Electronics					
	Engineering					
	Laboratory		_			
	Transforms and	3	1	0	4	4
U14GE301A	Partial					
	Differential					
	Equations	2	0		2	2
U14EC302	Electron Devices	3	0	0	3	3
	and Circuits				2	2
U14EE310	Electrical	3	0	0	3	3
	Engineering	2	0	0	2	2
U14EC303	Digital	3	0	0	3	3
	Electronics		_			
U14EC304	Signals and	3	1	0	4	4
	Systems	2	0		2	2
U14CHE304	Environmental	3	0	0	3	3
	Science					
	Personality and	2	0	0	2	1
U14GE302	Career					
	Enhancement- I		0	2	2	2
U14EC305	Electronic	0	0	3	3	2
	Circuits					
	Laboratory		0	2	2	2
U14EC306	Digital	0	0	3	3	2
	Electronics					
	Laboratory	0		2	2	
U14GE303	Communication	0	0	2	2	1
114 414 47	Skills Laboratory		,			
U14MAT401C	Probability and	3	1	0	4	4

	Random					
	Processes					
U14EC401	Electromagnetic Fields	3	1	0	4	4
U14EC402	Electronic Circuits	3	0	0	3	3
U14EC403	Linear Integrated circuits	3	0	0	3	3
U14EE407	Control Systems	3	0	0	3	3
U14EC404	Measurements and Instrumentation	3	0	0	3	3
U14GE402	Personality and Career Enhancement - II	2	0	0	2	1
U14GE404	Special Interest Course – I*	0	0	0	0	0
U14EC405	Linear Integrated and Circuits Laboratory	0	0	3	3	2
U14EC406	Electronic Circuits and Simulation Laboratory	0	0	3	3	2
U14MAT501B	Numerical Methods for Engineering Computation	3	1	0	4	4
U14EC501	Analog Communication Systems	3	0	0	3	3
U14EC502	Digital Signal Processing	3	0	0	3	3
U14EC503	Transmission Lines and Waveguides	3	0	0	3	3
U14EC504	Microprocessor and its	3	0	0	3	3

	applications					
450505	Computer	3	0	0	3	3
U14EC505	Networks					
	Personality and	2	0	0	2	1
1114GE501	Career					
U14GE501	Enhancement –					
	III					
U14GE502	Special Interest	0	0	0	0	0
01.02002	Course-II*					
U14EC506	Microprocessor	0	0	3	3	2
	Laboratory					
	Digital Signal	0	0	3	3	2
U14EC507	Processing					
	Laboratory					
	Computer	0	0	3	3	2
U14EC508	Networks					
	Laboratory					
U14EC601	Digital Image	3	0	0	3	3
	Processing					
	Digital	3	0	0	3	3
U14EC602	Communication					
	Antenna and	3	0	0	3	3
U14EC603	Wave					
	Propagation					
U14EC604	VLSI Design	3	0	0	3	3
	Micro controller	3	0	0	3	3
U14EC605	and RISC					
	Architecture					
U14EC606	Medical	3	0	0	3	3
0112000	Instrumentation					
	Personality and	2	0	0	2	1
U14GE601	Career					
01402001	Enhancement -					
	IV					
U14GE602	Special Interest	0	0	0	0	0
01401002	Course-III*					
	Communication	0	0	3	3	2
U14EC607	Laboratory					
3142007	(Analog , Digital					
	and RF)					

U14EC608	VLSI Laboratory	0	0	3	3	2
	Digital Image	0	0	3	3	2
U14EC609	Processing					
	Laboratory					
U14EC610	Mini Project	0	0	1	1	1
	Professional	3	0	0	3	3
U14GE701	Ethics and					
	Human Values					
U14EC701	Wireless	3	0	0	3	3
	networks					
U14EC702	Optical Fiber	3	1	0	4	4
	Communication					_
U14EC703	Microwave	3	0	0	3	3
114 45 60 04	engineering	-	•			
U14EC9XX	Elective – I	3	0	0	3	3
U14EC9XX	Elective – II	3	0	0	3	3
111.45070.4	Optical and	0	0	3	3	2
U14EC704	microwave					
	Laboratory Electronic	0	0	3	3	2
U14EC705	System Design	U	U	3	3	2
01420703	Laboratory					
	Project Work	0	0	5	5	2
U14EC706	Phase I	O	O	3	3	2
	Cellular and	3	0	0	3	3
U14EC801	Mobile		· ·	· ·		
	Communication					
	Disaster	3	0	0	3	3
U14EC802	Management					
U14EC9XX	Elective – III	3	0	0	3	3
U14EC9XX	Elective- IV	3	0	0	3	3
1114EC003	Project Work	0	0	20	20	6
U14EC803	Phase II					
	Total	145	9	86	240	196
LIST OF ELECT	IVE					
U14EC910	Advanced	3	0	0	3	3
	Microprocessor					
U14EC911	Internet and	3	0	0	3	3
32.23322	Java					
U14EC912	Computer	3	0	0	3	3
	Hardware and					

Mathematics		Interfacing					
Processing Electromagnetic 3		Advanced Digital	3	0	0	3	3
Electromagnetic 3	U14EC913	Signal					
U14EC914		Processing					
Compatibility		Electromagnetic	3	0	0	3	3
High Speed 3	U14EC914	Interference and					
Networks Solid State 3		Compatibility					
Networks	U1 450015	High Speed	3	0	0	3	3
U14EC916 Electronic Device Modelling Neuro Fuzzy 3	U14EC915	Networks					
Device Modelling		Solid State	3	0	0	3	3
Neuro Fuzzy 3	U14EC916	Electronic					
U14EC917		Device Modelling					
U14EC917 Engineering Applications		Neuro Fuzzy	3	0	0	3	3
Engineering Applications U14EC918 ASIC Design 3 0 0 0 3 3 3	1114EC017	Systems &					
U14EC918	014EC917	Engineering					
National Processing Section Se		Applications					
U14EC919	U14EC918	ASIC Design	3	0	0	3	3
Design	1114EC010	RF Circuit	3	0	0	3	3
Embedded and 3	01420313	Design					
U14EC921 Real Time System System System System Satellite 3	U14EC920	Nano Electronics	3	0	0	3	3
System Satellite Satellite Satellite Satellite Communication Speech		Embedded and	3	0	0	3	3
U14EC922 Satellite 3	U14EC921	Real Time					
U14EC922 Communication 3 0 0 3 3 U14EC923 Speech Processing 3 0 0 3 3 U14EC924 ARM System Architecture & Application 3 0 0 3 3 U14EC925 Telecommunicat ion and Switching Networks 3 0 0 3 3 U14EC926 Video Engineering 0 0 3 3 U14EC927 DSP Architecture 3 0 0 3 3 Automotive 3 0 0 3 3		System					
Communication Speech 3	II14FC922	Satellite	3	0	0	3	3
U14EC923 Processing	01420322	Communication					
Processing	1114FC923	Speech	3	0	0	3	3
U14EC924 Architecture & Application 3 0 0 3 3 U14EC925 Telecommunicat ion and Switching Networks 3 0 0 3 3 U14EC926 Video Engineering 0 0 3 3 U14EC927 DSP Architecture 3 0 0 3 3 Automotive 3 0 0 3 3	01120323	Processing					
Application Telecommunicat 3 0 0 3 3		ARM System	3	0	0	3	3
Telecommunicat 3	U14EC924	Architecture &					
U14EC925 ion and Switching Networks		Application					
U14EC925 Switching Networks 0 3 <td></td> <td>Telecommunicat</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>3</td>		Telecommunicat	3	0	0	3	3
Switching Networks	II14FC925	ion and					
Television and 3 0 0 3 3	01120325	Switching					
U14EC926 Video Engineering 0 0 3 3 U14EC927 Architecture 3 0 0 3 3		Networks					
Engineering	U14EC926	Television and	3	0	0	3	3
U14EC927 DSP 3 0 0 3 3 Architecture 3 0 0 3 3		Video					
U14EC927 Architecture 3 0 0 3 3		Engineering					
Architecture 3 0 0 3 3	II14FC927	DSP	3	0	0	3	3
Automotive 3 0 0 3 3	01420927	Architecture					
U14EC928	1114FC928	Automotive	3	0	0	3	3
Electronics	01420920	Electronics					

U14EC929	Artificial	3	0	0	3	3
01460929	Intelligence					
U14EC930	Pattern	3	0	0	3	3
01410930	Recognition					

^{*}Special Interest Course is audited without any credit.

2.1.3. State the components of the curriculum (5)

Components of the curriculum for regulations 2010R is given below, as the latest graduated batch (2013-17) followed this regulations. The components of the curriculum for other regulations are given in the **Annexure 2.1.3.**

Regulation - 2014

Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	19.9	41	39
Engineering Sciences	13.27	32	26
Humanities and Social Sciences	6.63	16	13
Program Core	47.45	105	93
Program Electives	6.12	12	12
Project(s)	4.59	26	9
Employability Enhancement	2.04	8	4
	Total nur	196	

2.1.4. State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

Program curriculum and syllabus is approved by Board of Studies and the assessment of the curriculum and syllabus is done by internal and external members. Feedback from Students, Parents, Recruiters, Industry, and Alumni are taken for indirect assessment. Mapping is performed for each assessment with POs and PSOs. From the direct and indirect assessment POs and PSOs are calculated.

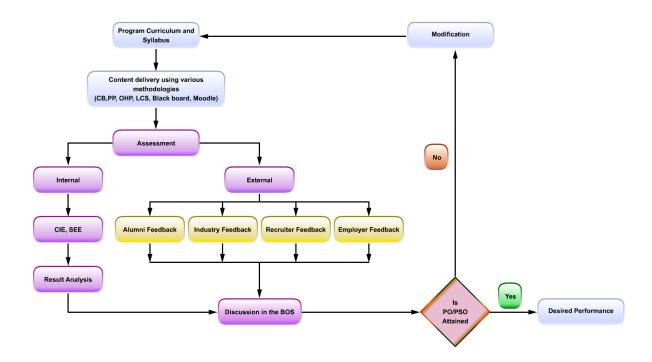


Fig 2.1.4 The process of identifying extent of compliance of the curriculum.

FEEDBACK FROM STUDENTS:

- Most significant role in the program.
- Third and final year students also members of the Board of studies in Electronics and Communication Engineering.
- Their feedback is considered for improving curriculum.

FEEDBACK FROM Industry:

- Play a vital role in framing the program curriculum.
- Getting feedback from the industry people for curriculum and syllabi.
- Provide input for designing the program, establishment and PEOs/POs.

FEEDBACK FROM ALUMNI:

- Alumni are a measure of long term success of the program.
- Their feedback helps in curriculum design to meet the need in Engineering and Technology.
- Recollect their existence during their stay in the institute and advice the department with necessary inputs with respect to students' career.

FEEDBACK FROM PARENTS:

 Parents are another important stakeholder for the academic Program. The parent constituency contributes by providing valuable suggestions and feedbacks.

FEEDBACK FROM RECRUITERS/ EMPLOYER:

 Their inputs will help to enhance the program curriculum such that the program outcomes are attained and it enable the students to face the challenges in recent trends.

2.2 Teaching-Learning Processes (70)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

Course Delivery Methods:

Adherence to Academic calendar

- In the beginning of every academic year, the academic calendar is framed and issued to the faculty members and students.
- An academic calendar is framed based on the discussions with the Controller of Examinations, Department Heads, Departmental club coordinator, Department level consultative committee and other decision-making authorities. The framing is carried out at least 15 days

- before the commencement of the academic year. The calendar is printed and handed over to the students at the beginning of the academic year.
- The calendar provides information about the Vision, Mission and quality policy of the institution and department. The calendar list the details of amenities, and Research centers available to students. The awards received by students and faculty members are also briefed in the calendar. Rules and regulations pertaining to the hostel, library, classrooms and other areas within the campus are enlisted.
- The academic schedule provides
 - > Date of commencement of the academic session,
 - Duration of semester
 - Commencement of Continuous Internal Evaluation(CIE) test,
 - Last working day
 - Commencement of practical and semester end examinations,
 - > Study period, and date of reopening of the forthcoming semester etc.
- A schedule of conferences, workshops, guest lecturers is chalked out and included in the academic schedule to improve the quality of teachinglearning process.

Course plan:

In the teaching –learning process, the course plan plays a vital role. It is prepared by each faculty member handling their respective courses 15 days prior to the commencement of every semester. The course plan for each of the course is scrutinised by the DAC and DCC under the guidance of the Head of the Department

- Course plan includes course outcomes, teaching aids, teaching methods, learning outcomes, and mapping of outcomes and learning resources that can be effectively utilized for the best delivery.
- Based on the course plan, the delivery is recorded accordingly in the Faculty Record Book (FRB) and reviewed by the Head of the Department.
- The teaching-learning process is evaluated based on the data recorded in the FRB.

All faculty members maintain the FRB for the course that they handle. It contains the following details

- Institute vision
- Institute mission
- > Timetable
- Syllabus
- Topics to be taught beyond the syllabus
- > course outcomes with learning outcomes
- Learning Resources developed
- > Course delivery details and record of class work
- > record the attendance
- > analyze the performance of students in CIE tests
- > grade the students
- maintain details about guidance and counseling given to the students

Classroom teaching

In the teaching-learning process, the lectures are delivered by the faculty member through a set of teaching aids and adopting various teaching methods.

These include:

Teaching Aids:

Chalk & Board, Power point presentation, Video Film, Models, Charts, Animation, etc.,

Teaching Methods:

- Lecture
- > Group Discussion
- > Seminar
- Quiz
- Team Teaching
- Demonstration
- > Drill and Practice
- Industrial Visit

- Games/Role Play
- > On-line Learning Resources
- > Tutorial
- > Technical Training
- Flipped classrooms
- Project based learning

Lecture:

Lecture is an efficient and traditional method for delivering substantial amount of information and imparting knowledge to a large number of students. It provides a summary or synthesis of information from various sources. The faculty member ensures to kindle the student for exploring much more on the topic that is delivered with substantial amount of information.

The faculty member ensures that at least a small group of students among the batch are attracted towards the topic summarized and henceforth kindled towards the other modes of teaching aids. Faculty member explains the concepts, principles solutions to problems and applications of respective subject. Lectures create an interest in the subject among the students and kindle their creativity for application in the field.

Group Discussion:

Group removes shyness of students and develops their communication skill. It builds their self-confidence. It nurtures them to express their views regarding a subject in a polite manner.

Group discussions are arranged and facilitated by faculty members. At the end of a group discussion, the student members have clear and unbiased thoughts.

The curriculum in the autonomous stream is framed such that the student takes up a review of the previous course. The recollection of such topics can be effectively carried out by hosting a Group Discussion rather than a lecture course delivery.

This approach also paves way to improvise the communication and technical presentation skills of the students. The debate on topics by students effectively improvises the skills of the students. At times, the faculty member summarizes the topic for the non-participants of the group discussions such that they appreciate the need for recollection of the topic.

Seminar:

To enhance the teaching / technical delivery skills among individual students' seminar sessions are arranged. The choice of the seminar topic is done in such a manner that certain topics post-lecture requires a marginal change for the consecutive concepts.

Seminars are designed for students to talk about topics in the particular course or lectures in detail. Seminars are a vital part of most academic courses and they give opportunity to students to discuss the topics in depth with other students, and with the faculty member.

The debate and argument with other students is very useful in developing their grasping and understanding ability of the subject.

Benefits associated with seminars include opportunities to:

- Learn novel approaches and ideas from peers
- Clarify the complex concepts.

Quiz:

Periodical and quick assessment of the student's understanding the concepts is carried out by conducting quiz program. The quiz is either an online one or the traditional paper mode. The scores are recorded for assessing the student's understating of the concepts.

Team Teaching:

The unique teaching capability of each faculty member is tapped in this method. The variety of perceptions of the same subject by different experts is experienced by the students. The method effectively works for courses of higher levels where the students get a blend of knowledge on focused topics.

Demonstration:

Learning Engineering demands on demonstrations. Demonstrations need not be working models. Faculty members choose day-to-day essentials for demonstrations of engineering concepts. The approach is much suitable for basic level engineering courses so that the student recollects the basic concept each and every time he looks at the items.

Drill and Practices:

Despite following the innovative practices of course delivery, it's at times necessary to impinge the traditional way of making the student to remember certain important formulae and steps involved in designing. One such approach which is involved is the drills and practices.

Industrial Visit:

Industrial visits represent one of the important attribute in any engineering undergraduate program that contribute to the achievement of various essential learning outcomes and program outcomes.

It provides the students an opportunity to learn practically through interaction, and by seeing the working methods and employment practices.

Project:

Engineering education gets itself a complete structure only after the completion of a real time project. The project can be either a prototype model or a working on a real-time industry project. While the former one is guided only by the academic professor and the later one is co-guided by the industry partner. The major outcome of the teaching aid is to make the students understand the work culture and adapt themselves in the industrial environment.



National Program of Technology Enhanced Learning (NPTEL)

NPTEL provides E-learning through online web and video courses in engineering, science and Humanities streams. The mission of NPTEL is to enhance the quality of Engineering Education in the country by providing free online courseware. http://nptel.iitm.ac.in/

Anna EduSat Program

The Centre for Faculty Development of Anna University – Chennai conducts the ANNA EDUSAT live interactive audio-video lecture Programs transmitted through Ku-Band provided by ISRO, Bangalore from January 2006 onwards.

URL: http://www.annauniv.edu/facultydevelopment/edusat.html

SWAYAM is an instrument for self-actualization process. It provides opportunities for a life-long learning. A learner can choose from hundreds of courses. Every course that is taught at the university / college / school level is in virtual medium. The courses are taught by best teachers in India and elsewhere. A student studying in any college can transfer the credits earned by taking these courses into their academic record.

Tutorial:

Tutorial classes are conducted to train the students in analytical subjects. The total strength of students is divided into two equal halves and two tutorial classes are handled by two faculty members, so that special concentration would be given to the weak students. Tutorial classes help the students to improve their analytical and problem-solving skills. Implementation of tutorial classes helps the students to clear analytical papers in semester end examination.

Technical Training:

Technical training enhances the students to get in-depth knowledge about their subject.

Technical training refreshes the basics which will be helpful for placement activities.

Specially designed training (soft skills, communication skills) is given to students. Such activities facilitate the students to win in job recruitment /placement.



Students interaction with Faculty members and students' feedback

At the end of each period, students are given enough time to interact with the faculty member for clarification, on the concepts explained in the session.

This helps the students to get clear knowledge of the course content delivered by the faculty members.

In addition to this, faculty advisors interact with the students allotted to them frequently and counsel the students when required. The faculty members involve in constructive discussions and activities to promote the students' higher-order thinking skills.

Students' feedback will be taken in the starting and end of each semester for each subject. .Based on the students' feedback faculty members will be given counseling; pedagogy training and team teaching will be suggested for them .

Content beyond the Syllabus

The faculty member who is teaching the course identifies the important and current topics that are not covered in the syllabus.

In each theory course, students enrich their knowledge by learning the advanced concepts in the course that are not prescribed in the syllabus.

Utilization of Moodle and Black Board Software

Course plans, Assignments, Quiz and course materials like PPTs, videos, documents are published in Black Board software for all the courses so that all the students can get the course materials at any time whenever they need.

Maintenance of course file

For each course, a course file is maintained by the concerned faculty member. It includes Faculty Record Book, question bank, assignment topics, Sample CIE test papers and sample answer papers.

Faculty Record Book includes the following:

- Vision and Mission Statements
- Learning outcomes
- Program Outcomes (POs)
- Course contents-Syllabus
- Course Outcomes (COs)
- > Time Table
- Course Delivery details.
- COs to POs mapping matrix
- Modes of Content Delivery
- Assessment of course outcomes
- Results of COs Attainments
- Quantifying the achievement of course outcomes
- Record of Attendance
- > Details of CIE test marks
- > Details of follow-up action for all CIE test
- Details of Seminars / Guest Lectures and Industrial Visits organized

MOOC courses for the faculty

Each faculty member takes a MOOC courses in his/her area of specialization or in the subject being taught in the current semester.

It helps the faculty member to enhance his/her skills in the specified subject area and through this they can also enhance the skill of students.

List of faculty members Completed MOOC courses 2017-18

S.No	Name of the Staff	Course Name	МООС	Month &year
1.	Dr.R.S.Sabeenian	Image and Video processing from Mars to Hollywood with a stop at the hospital	COURSERA	MAR 18
		Fundaments of Digital Image and Video Processing.	COURSERA	AUG 17
2.	Dr. R. Vinod Kumar	Outcome based pedagogy Training	NPTEL	OCT 17
3.	Prof. J.P. Senthil Kumar	Analog Communication	NPTEL	OCT 17
4.	Prof. S. Deepa	Microprocessor & Microcontroller	NPTEL	APR 18
5.	Dr. K.R. Kavitha	Microprocessor & Microcontroller	NPTEL	APR 18
31	Dir Kilki Kartala	Analog Communication	NPTEL	OCT 17
6.	Dr. N. Sasirekha	Elective Engineering Teaching in practice	NPTEL	APR 18
7.	Prof. J. Harirajkumar	Microprocessor & Microcontroller	NPTEL	APR 18

8.	Ms. T. Shanthi	Image and Video processing from Mars to Hollywood with a stop at the hospital Fundaments of	COURSERA	MAR 18
		Digital Image and Video Processing	COURSERA	AUG 17
		IOT	NPTEL	OCT 17
9.	Dr. K. Anguraj	FDP101X-Foundation Program in ICT for Education	IIT Bombay	SEP 17
3.	Dr. R. Aliguraj	FDP201X-Pedagogy for Online and Blended Teaching Learning Process	IIT Bombay	NOV 17
10.	Dr. G. Ravi	Microprocessor & Microcontroller	NPTEL	APR 18
		Antennas	NPTEL	APR 18
11.	Dr. S. Vijayalakshmi	Analog Communication	NPTEL	OCT 2017
12.	Ms. K. Manju	Image and Video processing from Mars to Hollywood with a stop at the hospital	COURSERA	APR 18
		Fundaments of Digital Image and Video Processing	COURSERA	AUG 17
13.	Ms. M. Senthil	Antennas	NPTEL	APR 18

	Vadivu	Analog Communication	NPTEL	OCT 17
14.	Mr. M.E. Paramasivam	Fundaments of Digital Image and Video Processing	COURSERA	AUG 17
15.	Ms. A. Sangeetha	Control Engg	NPTEL	APR 18
		Microprocessor & Microcontroller	NPTEL	APR 18
16.	Dr. B.	Image and Video processing from Mars to Hollywood with a stop at the hospital	COURSERA	SEP 17
10.	Thiyaneswaran	FDP101X-Foundation Program in ICT for Education	IIT Bombay	SEP 17
		FDP201X-Pedagogy for Online and Blended Teaching Learning Process	IIT Bombay	NOV 17
17.	Ms. V. Meenakshi	Elective Engineering Teaching in practice	NPTEL	APR 18
18.	Ms. M. Susaritha	Microprocessor & Microcontroller	NPTEL	APR 18
10.	The The Suburieria	Analog Communication	NPTEL	OCT 17
19.	Ms. A.P. Jaya	Electromagnetic Theory	NPTEL	APR 18
19.	Krishna	Microprocessor & Microcontroller	NPTEL	APR 18

20.	Mr. A. Ayub Khan	Microprocessor &	NPTEL	APR 18
		Microcontroller		
		Image and Video	COURSERA	
		processing from Mars	COURSERA	
		to Hollywood with a		MAR 18
0.4		stop at the hospital Neural Networks and		
21.	Mr. P.M. Dinesh			
		deep learning		
		Fundaments of		
		Digital Image and	COURSERA	AUG 17
		Video Processing -		
		Principles of	NPTEL	
		communication		APR18
		Theroy-1		
22.	Ms. R.Gayathri			
		Analog		
		Communication	NPTEL	OCT 17
		Image and Video		
23.	Mr R.Anand	processing from Mars		MAR 18
23.	MI K.Allallu	to Hollywood with a	COURSERA	MAK 16
		stop at the hospital		
		Electromagnetic	NPTEL	APR 18
		Theory		ALK 10
24.	Mr.S.Ramkumar			
271		Applied		
		Electromagnetics for	NPTEL	OCT 17
		Engineers		
25.	Mrs.M.Amudha	Control Engineering	NPTEL	OCT 17
		232. 2329		23. 27

List of faculty members Completed MOOC courses (2016-17)

S. N	Name	Course	МООС	Month &year
1.	Dr. R.S. Sabeenian	Introduction to Programming with MATLAB	COURSERA	Dec 2016
		Digital Image Processing	NPTEL	Oct 2016
2.	Prof. J.P. Senthil Kumar	Estimation for wireless communication MIMIO (OR) OFDM cellular and sensor networks	NPTEL	Mar 2016
		An Introduction to code theory		Mar 2017
3.	Dr. N. Sasirekha	Medical Image Analysis	COURSERA	Mar 2017
4.	Ms. T. Shanthi	Introduction to Programming with MAT Lab	COURSERA	Dec 2016
		Digital Image Processing	NPTEL	Oct 2016
5.	Dr. G.Ravi	Ad-hoc and sensor network	NPTEL	Mar 2017
6.	Ms. V. Meenakshi	Satellite Communication	COURSERA	Mar 2017
7.	Mr. P.M. Dinesh	Introduction to Programming with Matlab	COURSERA	Dec 2016
		Digital Image Processing	NPTEL	Oct 2016
8.	Ms. M. Amudha	Computer Architecture	NPTEL	Mar 2017

List of students Completed MOOC courses (2017-18)

S. No	Name	Course	МООС	Month &year
1.	S.Muthunarayananan	Analog Communication	NPTEL	OCT 17
2.	M.Priyanka	Analog Communication Control Engineering	NPTEL	OCT 17
3.	V.Padmasaranyana	Analog Communication	NPTEL	OCT 17
4.	M.Sunmathi	Analog Circuits	NPTEL	OCT 17
5.	V.Sridevi	Analog Communication	NPTEL	OCT 17
6.	B.Kaviya	Analog Communication	NPTEL	OCT 17
7.	M.Jayavani	Analog Communication	NPTEL	OCT 17
8.	R.Kiruba	Introduction to Programming Analog Circuits	NPTEL	OCT 17

SMART class room

The academics use smart class rooms with ICT facility for delivering the lecture in a more efficient and effective manner.

Lecture Capture System:

Lecture Capture System is an automated audio-video recording system for class room lectures. It provides access to classroom video lectures and activities in online. Students can access the recorded video lectures and other materials from anywhere through laptops, tablets and Android platform by using URL: a.impartus.com (Lectures available for authenticated users)

Invited Lectures

For each course besides regular lecture, the department interacts with the industry and academic experts to deliver the lecture to the students based on industry experience and recent trends.

Online Live video lectures

Online Live video lectures are telecast for the students' easy understanding and latest updates.

Video lectures are one of the main tools for delivering course content in an effective manner.

It is during the process of creating a comprehensive instructional strategy in the course design phase, the instructor selects the best content delivery method. It is a visual image which makes the instructor as a real person to make the students interact effectively.

Online video Lecture handled by Dr.Simar jeet Saini

Dr.Simarjeet saini

Adjunct Faculty, ECE, SCT

Co-founder and CTO

Savormetrics, University of Waterloo, Canada

He handled online sessions on 'Electromagnetic Fields' and 'Transmission Lines and Waveguides'. The sessions are handled live from University of Waterloo campus at 23:00 HOURS (PST).

Details of online live video lecture

S.no	Name	Year	Subject title	Date	No. of hours
1.	Dr.Simarjeet Saini	2016- 17	Engineering Electromagnetic	13.03.2017 to 01.04.2017	30
2.	Dr.Simarjeet Saini	2017- 18	Transmission lines and wave guides	04.09.2017 to 27.09.2017	36

Guidelines to identify weak students and mentoring system:

The faculty members regularly conduct meetings regarding progress of their mentees and are responsible to identify the students who scored less than 50% marks in their internals.

Under the HoD's direction, the faculty advisors identify the students who score below 50% marks in three or more subjects and below 75% attendance. These students are considered as academically weak students and this fact intimated to their parents.

Identification Criteria	Actions Taken
Students scoring less marks	 Special classes are being conducted after the regular college hours. Peer teaching is conducted by senior and fellow students. Counseling is given to the students by subject handling faculty, concerned faculty advisors, Class Counselors and HoD. Students' performances are intimated to parents.
	Remedial measures (counseling, classes, retest, and tutorial) are taken.
Failures in Semester End Examinations	 Examination failure reasons are analyzed. Counseling is given to the student.

Guidelines to identify bright students and mentoring system:

Identification Criteria	Actions Taken
Rank Holders, Semester Toppers & Subject Toppers	 To motivate to get Gold medals and cash prizes given on Graduation Day. To motivate to get Mementos and cash prizes given in department functions. Encouraging them to take part in Research Activities. Motivating them to take part in national level competitions for projects. Encouraging them to take part in cocurricular activities in national and international venues by offering 50% of total expenditure.
Students with First Class	 Motivation to continue Excellency. Encouragement to get nationwide exposure. Motivating them to attend conferences, workshop, and other co-curricular activities.

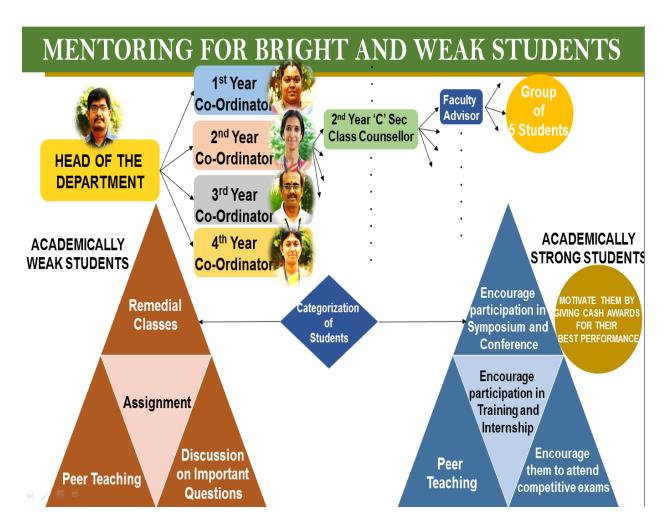


Fig:2.2.1 Process for Encouraging Bright Students and Assisting Weak Students

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

Continuous Internal Evaluation Test

For each course of the program, the Continuous Internal Evaluation Test is conducted to assess the student's knowledge and their understandability.

This continuous assessment process helps the faculty member to monitor the knowledge attainment of students.

Model Exam

- ❖ For each course of the program, a model examination is conducted prior to the semester end examination.
- ❖ This assessment process helps the students to prepare them for semester end examination and also gives the insight of overall understanding in the respective course.

Project Review

- ❖ Regular reviews are conducted for the students with the respective supervisors. The review team consists of professor of various grades. The idea behind the review is to monitor the progress in the review work and also to ensure that the student is following the right path towards the achieving the objectives of the project.
- ❖ A final assessment is conducted with the help of an external examiner.

 The scores are based on various parameters, fixed with a focus on the entire course of study.
- These kinds of scheduled reviews help the students to develop their research, communication and team management skills.

Semester End Examination

❖ For each course of the program, semester end examination is conducted.

- ❖ The answer scripts are evaluated by both the internal and external evaluators to assess the overall knowledge attainment of student in respective course.
- ❖ The external evaluators are utilized 70% for Question paper setting and 50% for evaluating the papers.
- ❖ The internal evaluators are utilized 30% for Question paper setting and 50% for evaluating the papers.

Assignment

For each course the assignment is given to the students for developing their analytical and problem solving skills.

Seminar

❖ For each course the seminar is given to the students for developing their knowledge and communication skills.

Moodle

For each course the Moodle online test is given to the students for developing their higher order thinking levels.

Initiatives to improve the Quality of Internal Question Papers:

- ❖ The faculty member who is responsible for course prepares the CIE test questions, model examination question papers, and Moodle question papers, based on the Bloom's taxonomy.
- ❖ For all UG courses, question papers include 50% questions on HOTS (Higher Order Thinking Skills) and 50% questions on LOTS (Lower Order Thinking Skills) and for all PG courses the ratio is 60% HOTS and 40% LOTS.
- These question papers are scrutinized by the Head of the Department and by senior professors.
- ❖ The COE approves the question papers in respect of CIE tests and Model examination. If any question paper is not satisfying the percentage of Bloom's taxonomy, then it is not accepted and resent to the faculty for improving the quality of questions level.

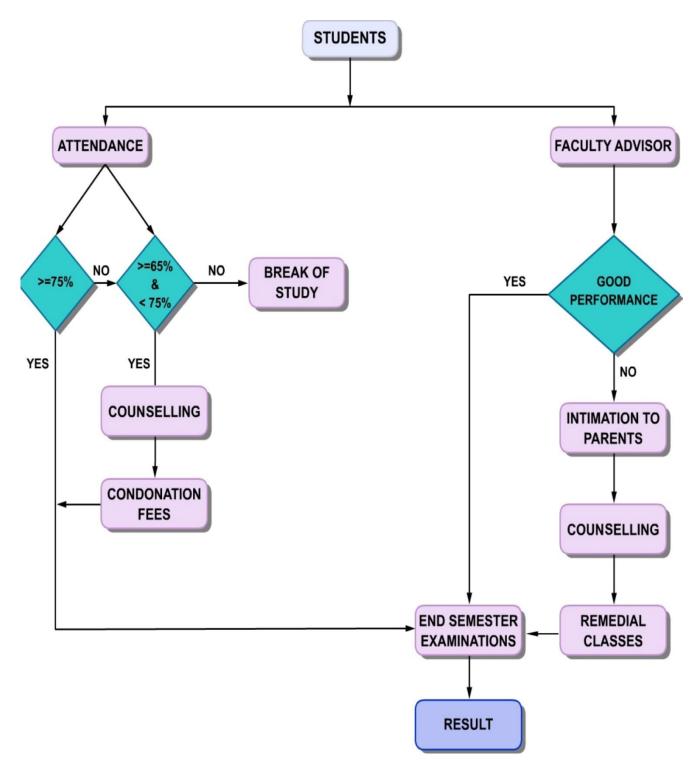


Fig: 2.2.2 System flow of evaluation of Continuous

Assessment

Assessment procedure – Tests and Examinations

For each theory course, the assessment pattern for CIE test is illustrated in the following Table.

Theory Course Assessment pattern – Academic session 2015-2016

S.NO	Assessment	Marks	Weightage
1.	CIE TEST 1	50	06
2.	CIE TEST 2	50	06
3.	CIE TEST 3	50	06
4.	Model Examination	100	10
5.	*Assignment 1	20	06
6.	*Assignment 2 / Seminar/Quiz	20	06
	Total Internal		40

^{*}Analytical and Design Courses shall be assessed based on two assignments.

Theory Course Assessment pattern – Academic session -2016-2017

S.NO	Assessment	Marks	Weightage
1.	CIE TEST 1	50	06
2.	CIE TEST 2	50	06
3.	CIE TEST 3	50	06
4.	Online Test	100	07
5.	Model Examination	100	08
6.	# Attendance	100	05
7.	*Assignment 1	20	04
8.	*Assignment 2 / Seminar/Quiz	20	04
	Total Internal		40

Note: 1.Analytical and design courses shall be assessed on the basis of two assignments.

2. The best two of three CIE tests shall be taken for internal mark calculations.

A final retest shall be conducted for the examination in which the students did not appear due to Medical leave / co-curricular and extracurricular activities / any other special permission authorized by the Principal and Head of the Department. Students who wish to improve their CIE marks on any one course are also permitted to attend the retest with prior permission from the concerned Head of the Department.

Theory Course Assessment pattern – Academic session -2017-2018

S.NO	Assessment	Marks	Weightage
1.	CIE TEST 1	50	06
2.	CIE TEST 2	50	06
3.	CIE TEST 3	50	06
4.	Online Test	100	07
5.	# Attendance	100	05
6.	*Assignment 1	20	05
7.	*Assignment 2 / Seminar/Quiz	20	05
	Total Internal		40

A final retest shall be conducted for the examination in which the students did not appear due to Medical leave / co-curricular and extracurricular activities / any other special permission authorized by the Principal and Head of the Department. Students who wish to improve their CIE marks on any one course are also permitted to attend the retest with prior permission from the concerned Head of the Department.

For each practical course, the assessment pattern for CIE shall be as illustrated in the following Table.

Practical Course Assessment pattern – Regulation 2010, 2010R, 2014, 2015 and 2015R

S.No	Assessment	Marks
1	CIE	60
2	SEE	40

CIE – Continuous Internal Evaluation

SEE - Semester End Examination

2.2.3 Quality of Student Projects (20)

Project team and supervisor mapping process:

- 1. Students are allowed to form the team, based on their area of interest.
- 2. The strength of the team may vary from 2 to 4, not exceeding 4.
- 3. An area of specialization is collected from each team such as embedded system, digital image processing, communication system, antenna design, VLSI, sensors and networking.
- 4. Area of interest from the faculty members also has been identified.
- 5. Mapping process is carried out between student team and faculty members' specialization.

Project identification:

- The students may be attracted to the specific area by the following reasons,
 - 1. Industrial visits.
 - 2. In-plant training.
- 3. Guest lectures were conducted by the student association and professional societies such as IETE, IEEE, ISTE..,
- 4. Seminars, symposium and workshop are also conducted in the home network and other institutions.
- 5. Students perform the literature review based on the specific area.
- 6. Finally, they identify the proposed work based on the literature review.

Monitoring mechanism:

- 1. The student's has to report on their project status to the concerned supervisor periodically.
- 2. Initially conducting the zeroth review and further 3 more reviews are conducted.
- 3. A model viva voce examination on project work is conducted before the end semester examination.
- 4. The students should give a power point presentation during the review.
- 5. Review panel consists of project coordinator, supervisor, and faculty experts.
- 6. A project team will submit the project report in the prescribed format given by the University.
- 7. The guide lines for preparing the power point slides and report preparation are issued to the students. (It is given in the **Annexure** 2.2.3)
- 8. An end semester project viva voce is conducted with the panel of internal and external examiners. The external examiner from other institution / university is appointed by the controller of examinations.

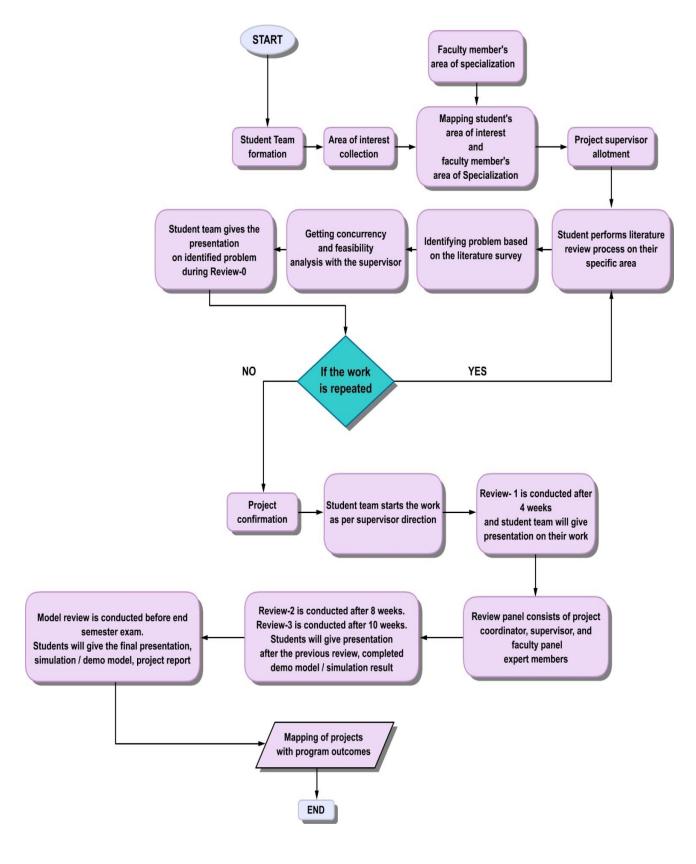
Demonstration of prototypes:

1. The students will demonstrate the working prototype models during the project review and end semester examination.

Enhancing relevance of the project:

2. Outcomes of the projects are encouraged to publish as a paper in conference / journals.

PROJECT PROCESS FLOW:



LIST OF PROJECTS:

Few samples of projects and program outcome mapping are given below. The complete list of projects are given in the annexure 2.2.3.

CAY (2017-2018).

Project	Project Title	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	PS	PS
No		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
1.	Wireless Health Mentoring	√	√	√	√	√	√	√	√	√	√	√	√	√	✓
	System			·		·			ř	·	·	·	·	·	
2.	Real time GSM based skid														
	cooling LPG Pipeline	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	\checkmark	✓
	Monitoring System														
3.	Advance fire detection in	√	√	√	√	√	√	√	√	√	√	√	√	√	✓
	Video using Image Processing										·				

CAY (2016-2017).

Project	Project Title	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	PS	PS
No		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
1.	Microcontroller based device														
	to detect vital signs using	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓
	microwave signals.														
2.	Development of patch														
	antenna for RFID for smart	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓
	library management.														
3.	Recognition of handwritten														
	tamil characters in palm leaf	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓
	manuscripts.														

CAY m1 (2015-16)

Project	Project Title	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	PS	PS
No		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
1.	Eco-friendly air-conditioner.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
2.	Automated coach for sports using														
	multiple moving object tracking	\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	and analysis.														
3.	Improving the performance of	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	transform based super resolution	-													

using pre and	post filteri	ng							
techniques.									

Implementation details: (PO)

Sem	Name of	Course Outcomes	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	PS	PS
	the Lab		1	2	3	4	5	6	7	8	9	10	11	12	01	02
		1. Identify problems, formulate														
		literature survey and analyze engineering problems.	√	✓	✓	✓	✓	√	✓	✓	√	√	√	✓	✓	✓
VII	Project Phase-I	2. Design system component that acquire the needs for public health and environment consideration.	✓	√	✓	√	✓	√	✓	✓	✓	✓	✓	✓	✓	✓
		3. Form a team for carrying the project and perform documentation	√	✓	√	✓	\	~	✓	✓	√	✓	√	✓	√	✓

		effectively.														
		Apply knowledge and demonstrate to manage project in multi- disciplinary areas	✓	✓	✓	√	✓	✓	✓	√	✓	√	✓	√	✓	✓
VIII	Project Work Phase II	2. Design and conduct experiments to interpret data pertaining to engineering problems	✓	✓	✓	✓	✓	√	√	√	✓	√	√	√	√	✓
		3. Prepare documentation and presentation	√	√	√	✓	√	✓	√	√	✓	√	√	√	✓	✓

2.2.4. Initiatives related to industry interaction (10)

Initiatives taken:

- **Invited lectures** are conducted to the students by inviting experts from core and IT industry. These lectures results in lively discussion thus imparting current state of the art knowledge to the students and faculty members.
- Online live lectures by experts from International industry are arranged for the students to acquire an global knowledge in analytical courses like Engineering Electromagnetics, Transmission lines and wave guides which motivates them to involve in research, projects.
- Workshops are conducted for the students by the technical experts from industry to acquire and update the technical skills required for the current trends.
- **Industrial visits** are arranged for the students to give exposure on the industrial environment and work ethics.

Internships, Summer training or In plant training

- ❖ Students are allowed to undergo 2, 4, 6 or 12 weeks of internship at Research Organizations / Government Training Institutes / Public Sector Units / Reputed Academic Institutions / Reputed Industries/ Industry Oriented Courses / Online Courses between Semesters 6 and 7 and Semesters 7 and 8 during the summer/winter vacation and can earn 1, 2 or 3 credits respectively in lieu of industrial training.
- ❖ The industry / organisation is to be selected with the approval of the department consultative committee.





- ❖ It is the department training centre which conducts certification courses to the students in the areas of PCB design &fabrication, Digital Image processing using open CV and Python, Basic C programming in Continuous Time & Discrete time signal using GNURADIO.
- The students are motivated by the faculty members, to take up online certification MOOC courses according to their areas of interests in NPTEL lectures, Coursera, Saylor academy, webinar from NI instruments.

MoU's signed with industries to emphasize on

- i. Internship
- ii. Project workshop for students
- iii. Industrial visits
- iv. Students specific training
- v. Faculty Development Program

IMPLEMENTATION DETAILS

A. MoU details

The department is having various MOUs with industries to improve the career opportunities of our students.

S.No	Name of the Company	Goal of MoU
1	Titan India private limited, Hosur	Research & Development
2	Texas Instruments	Teaching/Research lab facility
3.	SALEABS Electronics Engineers LLP,	Internship and training
	Salem	
4.	KNOWVIC ,Bangalore	Training

B. Industry Supported Laboratories:

S.NO	Lab	Industry	Objective
1.	Digital Image	National Instruments	To get CLAD certification
	Processing Lab	Tracional Instruments	
			To bridge the academia-
			industry gap, enhancing
			student employability,
2	Embedded system	INTEL and Texas	promoting innovation and
	Lab	Instruments	creating an entrepreneurial
			ecosystem for youth through
			hands on technical training in
			advanced processor.

C. Invited Lectures , online live video lectures and workshops by industry experts:

Academic Year: 2017-2018

S.NO	Industry expert	Training related to the course	No of students attended	Topic	Duration
1.	Mr.R.Prabhakaran SoftwareDeveloper, INFOVIEW, Chennai.	Project Work Phase - I	140	Technical project management	21.07.2017
2.	Dr.S.Arumuga Perumal, Chariman,IETE Thiruvanthapuram	Project Work Phase - I &Embedded	141	IOT and its future perspectives for smart cities in	16.08.2017
3.	Mr.Prabhu Manikandan Bankers academy, Salem	Soft Skills and Aptitude - I	171	Hands on training session on "Aptitude, and verbal	19.8.2017 to 21.8.2017
4.	Mr.K.P.Harsha Prasana, Mr. T. N. Raj Vignesh ,SALEABS Electronics Engineers LLP, Salem	Electronic Devices	171	Ground breaking project dreams for enhancing knowledge of budding engineers.	31.08.2017
5.	Dr.Simarjeet saini, Professor, University of Waterloo, and Chief Technology Officer, Nanolytix	Transmission Lines and Waveguides	187	Transmission Lines and waveguides	4.9.2017 to 27.9.2017
6.	Prof.Surya Narayana Rao, Distinguished Visiting Professor - ISRO, Bangalore	Microwave Engineering	135	Recent trends in Microwave Engineering	5.6.2017 6.6.2017 & 20.9.2017

7.	Mr.M.Nishanth Hardware Design Engineer, EmbDes Technology Pvt Limited,Bangalore	Embedded and Real Time System	90	Analog and digital hardware design	16.9.2017 & 17.9.217
8.	Mrs.S.Preethika, Associate Software Engineer, Robert Bosch Engineering and Business Solutions Ltd, Coimbatore.	Project Work Phase - I	141	Industry needs from fresher's	9.9.2017
9.	Mr.S.Sundara moorthy Managing Director, Sunshive Electronic Solutions, Coimbatore	Electronic Devices Laboratory	171	Do Your Engineering Rather Than Studying	26.09.2017
10.	Mr.Moorthy Enthu Technology Solutions India Private Ltd, Coimbatore	Signal	187	Digital signal processor.	13.10.2017
11.	Mr.Sunilkumar VIsolutions,Bangalore	Project Work Phase - I	141	NI lab view and Intro on NI Certified Lab view Associate developer	16.10.2017
12.	Mr.K.P.HarshaPrasana , Mr. T. N. Raj Vignesh , Salieabs Electronics Engineers	Embedded and Real Time System	140	Embedded and IOT	20.10.2017 and 21.10.2017
13.	Dr.C.Varadharaju, Assistant General Manager, Steel Authorities of India , SAIL Salem Salem-636 013	Human Resources Management	UG & PG students (141+16)	Human resources and development	5.10.2017

14.	Mr.Manoj Application Engineer, Digital Shark Technologies, Bangalore	Project Work Phase - I Project Work Phase - I I	141	IOT opportunities and challenges using MSB430	14.11.2017,
15.	Mr.Esakki, National Instruments, Bangalore.	Digital Image Processing	30	Engineering applications using LabVIEW	13.12.2017 to 29.12.2017
16.	Mr.Dhruv,MD, Asia-Pacific. Mr.Rashmikant Joshi,MD,Chennai. Mr.Harish,Marketing Manager,Chennai. Festo India.	Mini Project	180	Bionics	29.12.2017
17.	Dr.Mohammed Mansoor Roomi, Associate professor,ECE Thiyagarajar college of Engineering	Digital Image Processing	150	Visual Recognition - Opportunities to improve our lives	09.01.2018
18.	Mr.Aswin Gowtham Senior consultant, Livewire Corporate office, chennai	Computer Networks	70	Cyber security	13.2.2018
19.	Mr.S.Sundara moorthy Managing Director, Sunshive Electronic Solutions, Coimbatore	Electronic circuits	57	Hands on training on Industry ready Engineering	28.2.2018 & 1.3.2018
20.	Mr.K.Shiva, Team Lead, Accenture, Bangalore.	Soft skills and aptitude	169	5 Traits to be a successful professional	21.03.2018

21.	Diparko Das Sharma, KNOWVIC,Bangalore	Embedded and Real Time System and Embedded system laboratory	107	Python Programming	19.5.2018 to 27.5.2018
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Academic Year: 2016-2017

			No of	Topic	Duration
S.NO	Industry expert	Training related to the	studen ts		
<i>5.</i>	industry expert	course	attend		
			ed		
1.	Dr. T.M. Srinivasan,	Tuanamiasian		Electromagneti cs	
	Professor Yoga &	Transmission Lines and		in	12.09.201
	Physical Sciences, S-VYASA university	Waveguides	146	Rehabilitation &Science of	6
	3-VIASA University			Yoga	
2.	Dr. Cyril prasanna			Challenges And	
	raj Prof/Dean,	Project Work		Opportunities: Core	21.09.201
	Dept.of CSE.	Phase- I	146	Companies,	6
	MS Engineering			Higher	
3.	College Bangalore.			Education And	
3.	Dr.B.R.Sujatha Professor &Head,				
	Dept. Of ECE	Computer		CHAOS	24 10 201
	Malnad College of	Networks	146	functions on	24.10.201 6
	Engineering, Hasan, Karnataka.			Cryptography	Ü
	Kalilataka.				
4.	Dr.Simarjeet saini,				13.3.2017
	Chief Technology	Engineering	45	Engineering	to
	Officer,Nanolytix, Canada &	Electromagneti cs		Electromagneti cs	1.4.2017 3weeks
	Professor, University	CS		CS	(30 Hours)
	of Waterloo,				,
5.	Mr.V.Murugappan,				
	Project Manager ,	Project Work	120	Challenges and	22.03.17
	WIPRO Technologies,	Phase - I I		Opportunities: in IT	
6.	Dr.G.K.D.Prasanna			111 11	
	Venkatesh,	Wireless	120	Recent trends	22.03.17
	Professor & Dean/	Networks		in Wireless	
	Research SNS College of Tech,			Communication	
	Coimbatore				

7.	Mr.Prasad Director & Inventor ARMSUN Multi-Industrial Research and Technology Licensing company	Professional Ethics	50	Patent and Copyrights	25.03.17
8.	Mr.Sunil&	Digital Image	50	LabVIEW for	11.08.16
	Mr.Manimaran	Processing		Machine	&
	VI Solutions,			Learning of	12.08.16
9.	Mr.K.P. Harsha				
	Prasana	Mini project	145	Arduino and its	15.3.2017
	SALIEABS			interfacing with	
	Electronics			sensors	
	Engineers LLP,				
	Salem				

Academic Year: 2015-2016

S.NO	Industry expert	Training related to the course	No of students attended	Topic	Duration
1.	Mr. Raghav Ankur, Technical trainer Ms. Yamini Shali Foundation for Innovation and Collaborative Education Private Limited, Bangalore	Embedded and Real Time System	54	INTEL-FICE training on "Intel Galileo boards and interfacing"	7.7.2015 to 10.7.2015
2.	Mr. Manav Subodh, National Head for Intel & The Senior Fellow at UC Berkeley		123	FICE-1M1B Ideation Camp 2015	13.7.2015 & 14.7.2015
3.	Prof.Surya Narayana Rao, Distinguished Visiting Professor - ISRO,Bangalore	Satellite Communication	142	Software defined radios	19.3.2015 & 20.3.2015

	Mr.R.Devaraj, CEO,			Entrepreneurship	
4.	Real Power Vision,	PACE-III	140	and Present	11.08.2015
	Bangalore.			Scenario in	
	Mr.Gangadharan.C			Job	
5.	Head-Technical Support	Project Work	142	Opportunities'	11.08.2015
J.	Group,	Phase	142	for Engineering	
	Real Power Vision,			Students	
6.	Mr.Sunil VI Solutions,	Digital Image	50	Digital Image	13.08.2015
0.	Bangalore	Processing		ProcessLabVIEW	
	Mr.S.Aravind,				
	Divisional Manager,	Professional		Management	13.08.2015
7.	The JOB GLAD Division,	Ethics and	65	Ethics through	&
	Synergy Life - Group of	Human Values		Games	14.08.2015
	Companies				
	Dr.T.Shanmuganathan	Transmission			
8.	Assistant Professor,	Lines and	146	Microstrip Lines	05.09.2015
	Pondicherry University,				
	Pondicherry.				
	N.Raj Vignesh,				
	Mr.Harsha Prasanna	Project Phase	40		4-2-16 —
9.	Salieabs Electronics	II		IoT	To
	Engineers LLP,				6-2- 16
	Salem.			Do ware	
	Mr.S.Sundaramoorthy,M.D,	Electron		Do your	
10.	Sunshive electronic	Devices and	185	engineering rather than	06.02.16
	solutions	circuits		studying	
	Mahadevan A.S	Embedded and		Advanced	18.2.2016
11.	Divison manager	Real Time	142	Microcontrollers	to
	Mahadevan A.S	Embedded and			23.3.2016
12.		Real Time	142	Advanced	
	Divison manager	real IIII1e		Microcontrollers	to

Impact Analysis:

- Students cleared NPTEL exams and got certification in various courses.
- Students can able to publish papers in national and international conferences and journals
- Students won prizes in various state level, national and international level project design contest
- Growth of technical skill among students in latest technologies.
- Take less training in industry after joining the company.
- Have an edge in the job market
- More focused growth for students
- Easy transition into a job

INVITED LECTURES AND WORKSHOPS BY INDUSTRY EXPERTS







2.2.5. Initiatives related to industry internship/summer training (10)

Initiatives:

A. Industrial Visit:

The department organizes industrial visits for students once in a year/semester to relevant organizations/companies to enable the students to experience the practical implementation of theoretical knowledge in real world. This gives them an insight of exposure to the industrial environment and the work culture ethics in Industries. The visits also help the students to learn about people management, which is essential in any organization.

B. Internship:

Internship is encouraged among students through the implementation of choice based credit system and making following changes in the curriculum.

- Students are allowed to undergo 2, 4, 6 or 12 weeks of internship at Research Organizations / Government training institutes / Public sector units / Reputed academic institutions / Reputed industries/ Industry oriented courses / Online courses between semesters 6 and 7 and semesters 7 and 8 during the summer/winter vacation and can earn 1, 2 or 3 credits respectively in lieu of industrial training.
- The industry/organisation is to be selected with the approval of the department consultative committee. The internship has to been taken on a continuous basis for the periods mentioned and in the same organization or organizations that are similar to those of the previous internship(s).
- A student earning three credits in internship shall be permitted to drop one professional elective/open elective. However, if the number of credits earned is only 1 or 2, these credits shall not be considered for dropping a course or for classification of the degree but will be indicated in the mark sheet.

- The implementation of choice-based credit system in 2015 Regulation helps the students to choose the open elective in the academic curriculum of their own interest and motivates them to do project work effectively by taking up internships in industry.
- Mini project is included as one of the practical course from the regulations 2014 curriculum which motivate the students to prepare them to take projects in industry through internships.
- Faculty members, class counsellors and faculty advisors motivate the students to do quality projects and to present it in conferences and in project exhibitions conducted by industries, government sectors like smart hackathon, etc.
- Students are encouraged to go for industry visit, implant training and to take up certification courses to update their knowledge in latest technologies.
- Faculty members interact with the industrial experts and give guidelines, suggestions, contact details of an internship ,provide the students recommendation letters and other necessary supports.
- The alumni coordinator constantly interacts with alumni those who are working in the industries and request them to provide necessary guidelines and supports for the internship of their juniors.

C. Summer training or In plant training:

At the end of every semester or in vacation time the students are allowed to carry out internship in reputed industries/companies to get practical exposure to the technologies implemented in industries. It helps the students to bridge the gap between the subject's studies and industrial need.

D. Training at ECE-Continuing Education Centre:

It is the department training centre which gives technical training to the students in the areas of PCB design &fabrication, Digital Image processing using open CV and Python, Basic C programming in Continuous Time & Discrete Time signals using GNURADIO

Implementation details:

A. Student Industrial Visit:

Academic Year 2017-2018

S.No	Company	Company	Incorporation	Discipline	Date	Date To	No of
	Name	Sector	Status		From		Students
1	ISRO Trivandrum	Engineering	Government Body	Electronics Engineering and Allied	18.8.17	18.8.17	145
2	Keltron state electronics development corporate limited, Trivandrum	Engineering	Government undertaking	Electronics Engineering and Allied	17.8.17	17.8.17	145
3	Sunshive Electronic Solutions, Coimbatore	Engineering	Private	Electronics	12.12.17	12.12.17	25

Academic Year 2016-2017

S. No	Company Name	Company Sector	Incorpor ation Status	Discipline	Date From	Date To	No of Students
1	JVS electronics	Engineering	Private	Electronics Engineering and Allied	05.8.16	6.8.16	103
2	Sunshive Electronic Solutions, Coimbatore	Engineering	Private	Electronics	28.7.16	28.7.16	50

Academic Year 2015-2016

S.N o	Company Name	Compa ny Sector	Incorporation Status	Discipline	Date From	Date To	No of Students
1	JVS electronics	Engg	Private	Electronics Engineering and Allied	22.7.15	23.7.15	90
2	Kerala electrical limited	Engg	Government Body	Electronics Engineering and Allied	20.7.15	21.7.15	110
3	ACE components &electronics pvt ltd	Telecom	Private	Electronics Engineering and Allied	19.8.15	21.8.15	120
4	Karnataka electricity regulatory commission	Engg	Government Body	Electronics Engineering and Allied	19.8.15	21.8.15	120

B. Student Internship:

Academic Year: 2017-2018

S.No	Student Name	Year	Company Name	Duration/ joining date for internship
1.	S.Ashwini	IV	Eurotech Controls &	20.12.2017
			Instruments(P) Limited - Chennai	(3 months)
2.	R.Harideepak	IV	Enthu Technology solutions	8.1.2018
			India private Limited, Coimbatore	(2 months)
3.	V.Aravind kumar	IV	Enthu Technology solutions	8.1.2018
			India private Limited,	(2 months)

			Coimbatore	
4.	O.Priya	IV	Checktronics India Private	4.12.2017
			Limited	(4 months)
5.	R.Naveen Raj	IV	Abhimanyu Group Inc	11.12.2017
				(4 months)
6.	S.Guru	IV	Magnum Honda	5.12.2017
	Narayanan.			(4 months)
7.	Y.Vidhya	IV	Zoho Corporation Private	6.12.2017
	Lakshmi		Limited	(4 months)
8.	S.Shriram	IV	BSNL - Rajiv Gandhi Memorial	19.12.2017
			Telecom Training center	(1 month)
9.	S.Santhosh,	IV	BSNL - Rajiv Gandhi Memorial	19.12.2017
			Telecom Training center	(1 month)
10.	,A.Victor	IV	BSNL - Rajiv Gandhi Memorial	19.12.2017
	Immanuel		Telecom Training center	(1 month)
11.	Z.Saramma	IV	GGtronics India private limited	01.01.2018
				(6 months)
12.	K.Tharani	IV	New Qbitronics Private limited	26.12.2017
				(3 months)
13.	Mr.S.Hari	IV	Schneider Electric India private	17.1.2018
	Prakash		Limited ,Bangalore	(3 months
14.	V.Dhana surya	IV	Schneider Electric India private	17.1.2018
			Limited ,Bangalore	(3 months)
15.	P.Meena	IV	Meltronics system Tech,	26.2.2018
			Bangalore	(3 months)
16.	Thenaruvi P	IV	Meltronics system Tech,	26.2.2018
			Bangalore	(3 months)
17.	Monisha.R	IV	Meltronics system Tech,	26.2.2018
			Bangalore	(3 months)
18.	Chinthamani S	IV	Meltronics system Tech,	26.2.2018
			Bangalore	(3 months)
19.	Dharshana G	IV	SAIL-Salem	15.12.2017

				(3 Months)
20	Akancha kumari	IV	SAIL-Salem	15.12.2017
				(3 Months)
21	Hari Prasath.G	IV	EmdDes Technologies Pvt	21.2.2018
			Limited,Bangalore	(3 months)
22	M.Sivakumar	III	URBEE Technovative Pvt	8-5-2018
			Limited, Hosur	(3 months)

Academic Year: 2016 -2017

				Duration/
S.no	Student Name	Year	Company Name	joining date
				for internship
1.	S.Akshayadhaarani	IV	Think & Learn Private Limited	19.12.2016
	3.Aksilayaullaaralli	1 V	Tillik & Leath Filvate Littlited	(3.5 months)
2.	S.Krishna kumar	IV	Open text	1.12.2016
3.	M.Parthipan	IV	I4U LABS PRIVATE LIMITED	5.12.2016
	M.Partilipan	1 V	140 LADS PRIVATE LIMITED	(3.5 months)
4.	S.Vibhu	IV	Think & Learn Private Limited	19.12.2016
	3. Vibilu	1 V	Tillik & Leath Filvate Littlited	(3.5 Months)
5.	M.Sandhiyasri	IV	Think & Learn Private Limited	19.12.2016
	14.Sunumyusii	10	Tillik & Learn Tilvate Lillinea	(3.5 Months)
6.	Sai Venkata Vinay	IV	Checktronics India Private	20.12.2016
	Chittuluru	10	Limited	(3.5 months)
7.	Sriram, R	IV	Appco Groups	16.08.2016
	Silium. K	10	Appeo Groups	(2 months)
8.	K.Nagendra Hari	IV	DEEVITA Technologies India	19.01.2017
	Karthick	10	Private Limited	(3.5 Months)
9.	E.Arulmouzhi	IV	DEEVITA Technologies India	19.01.2017
	L.A. ullilouzill	1 V	Private Limited	(3.5 Months)
10.	R.Sriprasath	IV	Imperial Management	01.02.2017
	i N. Si ipi asatii	1.0	Imperial Planagement	(2 months)

Academic Year: 2015 -2016

S.no	Student Name	Year	Company Name	Duration/ Joining date for Internship
1	Haja Kamaludeen	IV	Zoho Corporation Private	02-01-2016
1	Jahanger	1 V	Limited	(3 months)
2	Nandha kumar.	IV	Green Circuits India Pvt. Ltd	30.11.2015
2	Nationa Kumai.	1 V	Green Circuits India 1 vt. Ltd	(1 month)
3	3 Narendran .P	IV	Green Circuits India Pvt. Ltd	30-11-2015
			Green chedits mala i ve. Eta	(1 month)
4	S.Rahul	IV	Tekcel automation private	30.112015
	3.Ranui	IV	Limited	(1 month)
5	Nishanth .M	IV	Tekcel automation private	30.11.2015
	Wishandi In	10	Limited	(1 month)
6	Madhu priya .M	IV	Tata Consultancy Services	04.01.2016
	Triduna priya .iri	10	Limited	(3 months)
7	Manigandan .M	IV	EmbDes Technologies	16.12.2015
,	Traingandan in	1.0	Lindbes recimologies	(3.5 months)
8	Yashasree	IV	Tekcel automation private	30.11.2015
	rasilasi cc	1 V	Limited	(1 month)

C. Summer training/In plant Training:

Academic Year: 2017 -2018

S.NO	Company Name	Topic /Area	Sector & Incorporation	Date From	Date To	Year	No of Student s
1	Exor Robotics Private limited	Arduino	Engineering Private	12.7.17	14.7.17	IV	6
2	Bharat Sanchar Nigam Limited,	Fundamentals of Telecommunicat	Telecom Government	27.11.17	1.12.17	III	12
3	Enthu Technologies,	Rasperry PI	Private Engineering	26.12.17	30.12.17	III	17
4	TITAN, Hosur	Making of watches and case assembly	Private Manufacturing	15.5.17	20.5.17	III	1
5	TANMAG, Salem	Manufacturing of magnesites	Government Mining	20.06.17	22.6.17	III	2
6	Sunshive Electronic Solutions,	PCB Designing ,circuit creation, trouble shooting	Private Engineering	27.11.17	29.11.17	III	11
	Coimbatore	& product manufacturing	J	11.12.17	18.12. 17	п	1
7	VISTEON Electronics,C hennai	Industry safety Awareness & PCB	Private Engineering	29.05.17	2.6.17	III	1

8	Bharat Sanchar Nigam Limited Trichy	Fundamentals of Telecommunicat ions	Telecom Government	27.11.17	1.12.17	III	1
9	Labview CLAD Certification	Programming using LABVIEW	Private Engineering	4.12.17	22.12.17	III	1
10	UNIQ Technologies	Embedded Systems	Engineering Private	27.12.17	29.12.17	II	3
11	Bharat Sanchar Nigam Limited, RGMTTC, Chennai	IPv6	Telecom Government	22.1.18	24.1.18	III	12
12	Bharat Sanchar Nigam Limited,	Telecom	Telecom Government	26.2.18	5.3.18	III	14

Academic Year: 2016 - 2017

S.NO	Company Name	Topic /Area	Company Sector & Incorporatio	Date From	Date To	Year	No Of Studen ts
1	Bharat Sanchar Nigam Limited, Hosur	Fundamentals of Telecommunica tions	Telecom Government	23.05. 17	27.05. 17	II	1
2	Sona	PCB design and	Engineering	05.06.17	10.06. 17	II	1

	continuing	Fabrication	Private				
	education						
	training						
	centre,						
	Sona						
	college of						
	Technology						
	, Salem						
				16.05.20	20.05.20		22
	UNIQ			20.05.20	25.05.20		22
	Technologi	Embedded	Engineering	17	17	II &	
3	es,		Private	01.06.20	05.06.20	III	
	Chennai	Systems		17	17		
				29.06.20	03-07-		
				17	2017		
	Bharat	Fundamentals		15-05-	20-5-	II	1
	Sanchar	of	Telecom	2017	2017		1
4	Nigam	Telecommunica	Government	29-5-			
	Limited,	tions	dovernment	2017	2-6-2017	III	3
	Salem	Cions		2017			
	Steel			07-06-	9-6-2017	II	1
	Authority	Centralized	Basic Metal	2017	3 0 2017		_
5	of India	Electrical	and				
	Limited,	Maintenance	Steel Public	20-06-	23-6-	II	1
	Salem		central,	2017	2017		_
	Thermal	Control and	Manufacturing				
6	Power	instrumentation	Government	5-6-2017	9-6-2017	III	2
	Station ,	, meter and	Body				

Academic Year: 2015-2016

S.No	Company Name	Topic /Area	Sector & Incorpor	Date From	Date To	Year	No of Student s
1	Bharat Sanchar Nigam Limited, Salem	Fundamental s of Telecommuni cations	Telecom Governme nt	23.05.20 15	27.05.20 15	II	1
2	Foundation for Innovation and Collaborative Education (FICE) private limited, Bangalore & M.S. Ramaiah Institute of Technology	Developing project prototype	Private	27 .7.2015	31.7.201 5	III & IV	23

D. Training at SONA Continuing Education Center:

Academic Year	Topic	Name of the Expert	From	То	No of students attended
2017-2018	Basic C programming in Continuous Time & Discrete time signal using GNURADIO	Dr.R.S.Sabeenian Mr. P.M.Dinesh Mr.R.Anand	11.9.2017	28.9.2017	29
2017-2018	Digital Image processing using open CV and Python	Dr.R.S.Sabeenian Mr. P.M.Dinesh Mr.R.Anand	29.5.2017	3.6.2017	18
	PCB design & fabrication	Mr. S.Sree Southry Mr. A.Ayub Khan	18.09.2017	03.10.2017	9
2016-2017	PCB design & fabrication	Mr. S.Sree Southry Mr. A.Ayub Khan	05.06.2017	10.06.2017	17

Impact analysis:

- The student's technical skills are improved.
- Student's placement in core companies is improved.
- The student's placement percentage has improved compared to the previous years.
- The scores secured in competitive exams like GATE, CAT, TANCET is improved.
- Students gain valuable work experience.
- Students have an edge in the job market
- Students participate in more technical events

The list of students attended the inplant training or summer training are attached in

Annexure 2.2.5

CRITERION 3

COURSE OUTCOMES AND PROGRAM OUTCOMES

Criterion 3	Course Outcomes and Program Outcomes	175

3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25)

NBA defined Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program.

Program Articulation Matrix

Regulation 2014

Course	Course Title	РО	PSO	PSO											
Code		1	2	3	4	5	6	7	8	9	10	11	12	1	2
U14ENG101	Technical English - I					2	2	2	3	3	3	3	3	2	2
U14MAT102	Multivariable Calculus and Matrices	3	3	3	3	1	1					1	2	2	2
U14PHY103	Engineering Physics	3	1	1									1	2	2
U14CHE104	Engineering Chemistry - I	3	1	1									1	1	1
U14BEE106	Basic Electrical and Electronics Engineering	3	3	3	3					2		2	2	3	3
U14FOC105	Fundamentals of Computing	2		2	1	2	1			2		1	1	2	2
U14PCL107	Physics & Chemistry Laboratory - I	1						1		2			1	1	1
U14CPL108	Computer Practice Laboratory														

		2	2	2	2	2	1			2			2	2	2
U14EPL109	Engineering Practices Laboratory	3	3	3	3					2		2	2	3	3
U14ENG201	Technical English – II					2	2	2	3	3	3	3	3	2	2
U14MAT202	Vector Calculus, Differential Equations and Complex Analysis	3	3	3	3	1	1					1	2	2	2
U14PHY203	Material Science	3	1	1									1	2	2
U14CHE205A	Chemistry for Electrical and Electronics Engineers	3	1	1									1	1	1
U14CPR206	Programming in C	2	2	2	2	2	1			2			2	2	2
U14EGR207	Engineering Graphics	2		2		1	1					1	1	1	1
U14PCL208	Physics & Chemistry Laboratory – II	3	1	1									1	1	1
U14CPL209	C Programming Laboratory	2	2	2	2	2	1			2			2	2	2
U14BEEL210	Basic Electrical and Electronics Engineering Laboratory	3	3	3	3		-			2		2	2	3	3
U14GE301A	Transforms and Partial Differential Equations	3	3	1	2								3	3	3
1	Electron Devices and Circuits	3	3	3	3	3	1			1	1	2	2	3	3

U14EE310	Electrical Engineering	3	3	2	2	2	2	2	2		2	2	2	1	1
U14EC303	Digital Electronics	3	3	3	3	1	1				1	2	2	3	3
U14EC304	Signals and Systems	3	3	3	3	1						2	2	3	3
U14CHE304	Environmental Science			1	1		3	3	3	3		1	2	1	1
U14GE302	Personality and Career Enhancement - I				1		2			3	3	3	3	2	2
U14EC305	Electronic Circuits Laboratory	2	2	2	2	1				2		3	1	3	3
U14EC306	Digital Electronics Laboratory	2	2	2	2	1				2		3	1	3	3
U14GE303	Communication Skills Laboratory	1	1			1	2	2	2	2	3	3	2	2	
U14MAT401C	Probability and Random Processes	3	2		1		1					2	1	2	2
U14EC401	Electromagnetic Field	3	2	2	3	1	1					2	1	3	3
U14EC402	Electronic Circuits	3	2	2	3	1	1					2	1	3	3
U14EC403	Linear Integrated Circuits	3	2	2	3	1	1					2	1	3	3
U14EE407	Control Systems	3	2	2	3	1	1					2	1	2	1
U14GE301A	Personality and Career Enhancement - II			1					3	3	3	1		1	1
U14EC404	Measurements and Instrumentation	3	3	3	2	1	1	2				2	2	3	3

U14EC405	Linear Integrated & Circuits Laboratory	3	3	3	3					3	1	3	1	3	3
U14EC406	Electronic Circuits and Simulation Laboratory	3	3	3	3					3	1	3	1	3	3
U14MAT501B	Numerical Methods for Engineering Computation	3	3	2	2	1	1					1	2	2	2
U14EC501	Analog Communication System	3	3	2	2	1	1					2	2	3	3
U14EC502	Digital Signal Processing	3	3	2	3	2	1					2	2	3	3
U14EC503	Transmission Lines and Waveguides	3	3	1	3	1	1						2	3	3
U14EC504	Microprocessor and its applications	3	1	3	2	2	1	2				2	2	3	3
U14EC505	Computer Networks	1	3	3	3	1	2					2	2	3	3
U14GE501	Personality and Career Enhancement - III			1					3	3	3	1		1	1
U14EC506	Microprocessor Laboratory	3	2	3	2	1	3				2	2	2	3	3
U14EC508	Computer Networks Laboratory	1	1	3	3	1		1		2			2	3	3
U14EC507	Digital Signal Processing Laboratory	3	2	3	2	3	2				2	2	2	3	3
U14EC601	Digital Image processing	3	3	3	3	3					2	2	2	3	3

U14EC602	Digital Communication	3	2	2	1	3					2	2	2	3	3
U14EC603	Antenna and Wave Propagation	3	3	3	3	3	1				2	2	2	3	3
U14EC604	VLSI Design	3	2	2	2	3	1				2	2	2	3	3
U14EC605	Micro controller and RISC Architecture	3		3		3	2				2	2	2	3	3
U14EC606	Medical Instrumentation	3				3	2				2	2	2	3	3
U14GE601	Personality and Career Enhancement - IV			1					3	3	3	1		1	1
U14EC607	Communication Laboratory (Analog, Digital and RF)	3	3	3	3	2				3		2	2	3	3
U14EC608	VLSI Laboratory	3	3	3	3	3				3		2	2	3	3
U14EC609	Digital Image Processing Laboratory	3	3	3	3	3				3		3	2	3	3
U14EC610	Mini Project	3	3	3	3	3	3	3	2	3	3	3	3	3	3
U14GE701	Professional Ethics and Human Values	1					3	3	3	3	3	2	2	1	1
U14EC701	Wireless Networks	3		1		2	2					2	2	3	3
U14EC702	Optical Fiber Communication	3		1	2							2	2	3	3
	Microwave	3	3	3	2	2		1				2	2	3	3

U14EC703	Engineering														
U14EC921	Elective – I Embedded and Real-time systems	3	1	3	1	3	3					3	3	3	3
U14EC920	Elective-III Nano Electronics.	3	1	3	1	3	3					3	3	3	3
U14EC704	Optical and Microwave Laboratory	3	3	2	1						2	3	3	3	3
U14EC705	Electronic System Design Laboratory	3	3	3	3	3	1					3	3	3	3
U14EC706	Project Work Phase - I	3	3	3	3	3	3	2	3	3	3	3	3	3	3
U14EC801	Cellular and Mobile Communication	3		1		3	2				1	2	2	3	3
U14EC802	Disaster Management	3	2			2	3	3	3	3	3	3	3	2	2
U14EC922	Elective Satellite Communication	3	2		2		1				2	2	2	3	3
U14EC925	Elective Telecommunication and Switching Networks	3		3		3	2				2	2	2	3	3
U14EC926	Elective Television and Video Engineering	1	1	2	3	3		2		1	3	1	1	3	3
U14EC803	Project Work Phase - II	3	3	3	3	3	3	2	3	3	3	3	3	3	3

Table B.3.1a

Course Articulation Matrix Regulation 2014

	ation hatrix Re	9								1						1	1
		со	Course	Р	P	P	РО	P	P	P	P	Р	P	Р	P	PS	PS
Course			Outcome Statements	0	0	0	4	0	0	0	0	0	0	0	0	0	0
Code	Course Title			1	2	3		5	6	7	8	9	1	1	1	1	2
													0	1	2		
		CO1	Use Grammar components effectively in both written and spoken communication					2	2	2	3	3	3	3	3	2	2
U14ENG101	Technical English - I	CO2	Develop and demonstrate good listening skills for academic and professional purposes					2	2	2	3	3	3	3	3	2	2
	Liigiisii 1	CO3	Draw conclusions on explicit and implicit oral information					2	2	2	3	3	3	3	3	2	2
		CO4	Develop effective reading skills and reinforce the skills required for grammar and vocabulary building					2	2	2	3	3	3	3	3	2	2

		CO5	Read for gathering and understanding information and following directions					2	2	2	3	3	3	3	3	2	2
		CO1	Determine Eigen vectors and reduce matrices from one form to another form	3	3	3	3	1	1					1	2	2	2
U14MAT102	Multivariable Calculus and Matrices	CO2	Interpret curvature, calculate the radius of curvature, center of curvature and find the evolutes, involutes, envelope of curves and solve partial differentiation	3	3	3	3	1	1					1	2	2	2
		CO3	Work out functions of several variables, Jacobian's, Taylor's Theorem, compute the maximum & minimum values and Lagrange's Method	3	3	3	3	1	1					1	2	2	2

		CO4	Work out area of plane of region, length of the plane curve and area of surface of solid.	3	3	3	3	1	1			1	2	2	2
		CO5	Work out the double & triple integrals, discuss the change of order of integration, multiple integrals to find the area & volume	3	3	3	3	1	1			1	2	2	2
		CO1	Explain the theory of crystals, structure of crystals and defects in crystals	3	1	1							1	2	2
	Engineering Physics	CO2	Explain the theory of optoelectronics with applications	3	1	1							1	2	2
U14PHY103	Engineering Fitysics	CO3	Explain the concepts of electrodynamics as applicable to engineers	3	1	1							1	2	2
		CO4	Describe quantum mechanics theory and basic wave equations in	3	1	1							1	2	2

		CO5	Analyze different types of microscopes and discuss the theory of nanophysics	3	1	1					1	2	2
		CO1	Analyze the types of polymers, polymerization reactions, polymerization techniques and fabrication methods of polymers for engineering applications	3	1	1					1	1	1
		CO2	Discuss the basic principles of electrochemistry and its applications	3	1	1					1	1	1
U14CHE104	Engineering Chemistry	CO3	Analyze the types of corrosion and the various control methods for corrosion prevention	3	1	1					1	1	1
		CO4	Describe the construction, working principle and applications of energy storage device for electronic appliances	3	1	1					1	1	1

		CO5	Discuss the principles, advantages and applications of organic electronic materials used in electronic devices.	3	1	1						1	1	1
		CO1	Explain the fundamentals of DC machines	3	3	3	3			2	2	2	3	3
		CO2	Explain the fundamentals of AC machines	3	3	3	3			2	2	2	3	3
U14BEE106	Basic Electrical and Electronics Engineering		Explain the principles of Magnetic circuits	3	3	3	3			2	2	2	3	3
		CO4	Explain the basics of Electronics and details of Diode and Zener diode	3	3	3	3			2	2	2	3	3
		CO5	Evaluate various Number Systems and to realize the logic functions by using various gates	3	3	3	3			2	2	2	3	3

		CO1	Examine the use of databases in the context of managing large amount of data		2	1	2	1		2	1	1	2	2
		CO2	Identify basic components of a computer system	2	2	1	2	1		2	1	1	2	2
U14FOC105	Fundamentals of Computing	C03	Explain from various viewpoints the purpose of Database Management Systems	2	2	1	2	1		2	1	1	2	2
		CO4	Apply knowledge of computing and mathematics appropriate to the discipline	2	2	1	2	1		2	1	1	2	2
		CO5	Analyze the local and global impact of computing on individuals, Organizations and society.	2	2	1	2	1		2	1	1	2	2
		CO1	Construct an experimental setup to form interference fringes and use it to determine the thickness of the given thin wire	1					1	2		1	1	1

	Physics & Chemistry	CO2	Demonstrate by means of an appropriate experiment the poor thermal conductivity of a given bad conductor	1						1	2		1	1	1
U14PCL107	Laboratory - I	CO3	Estimate the amount of total, temporary and permanent hardness in the given sample of water	1						1	2		1	1	1
		CO1	Identify the different ports, peripherals of computer hardware	2	2	2	2	2	1		2		2	2	2
U14CPL108	Computer Practices Laboratory	CO2	Partition ,format hard disks and Install system software and application software	2	2	2	2	2	1		2		2	2	2
		CO3	Modify control panel settings, install antivirus software, backups, archival utilities and write in CD	2	2	2	2	2	1		2		2	2	2

		CO1	Verify Ohm's Law, Kirchhoff's Law and measure power and power factor for RC, RL, RLC Series and Parallel circuit.	3	3	3	3					2		2	2	3	3
U14EPL109	Engineering Practices Laboratory	CO2	Study the pipe connection requirements for pumps and turbines and demonstrate on basic machining	3	3	3	3					2		2	2	3	3
		CO3	Evaluate the VI Characteristics of PN Junction Diode, Zener Diode and verify the truth table for logic gates.	3	3	3	3					2		2	2	3	3
		CO1	Frame sentences correctly, both in written and spoken forms of language with accuracy and fluency					2	2	2	3	3	3	3	3	2	2
U14ENG201	Technical English – II	CO2	Introduce themselves deliver speeches and make technical presentation					2	2	2	3	3	3	3	3	2	2

		CO3	Speak effectively in real time and business situations					2	2	2	3	3	3	3	3	2	2
		CO4	Draft emails, formal letters and Resume					2	2	2	3	3	3	3	3	2	2
		CO5	Write reports and proposals, memos and checklists					2	2	2	3	3	3	3	3	2	2
U14MAT202	Vector Calculus, Differential Equations and Complex Analysis	CO1	Work out on different types of ordinary differential equations and use various methods to solve differential equations	3	3	3	3	1	1					1	2	2	2
		CO2	Compute vector functions, operators and use different methods of solving line, surface and volume integrals.	3	3	3	3	1	1					1	2	2	2
		CO3	Describe special features of function of a complex variable, Properties and solve the problems involving conformal mapping.	3	3	3	3	1	1					1	2	2	2

		CO4	Work out the power series expansion of a complex function and the procedures of evaluating the complex integral.	3	3	3	3	1	1			1	2	2	2
		CO5	Work out problems on Laplace transform its inverse, properties and solve an ordinary Differential equation using Laplace transforms.	3	3	3	3	1	1			1	2	2	2
	Matorial	CO1	Distinguish between electrical and thermal conductivity based on classical free electron theory of solids and apply Fermi distribution function to calculate carrier concentration in metals.	3	1	1							1	2	2
U14PHY203	Material Science	CO2	Differentiate intrinsic and extrinsic semiconductors, analyze the variation of Fermi level with temperature and apply Hall effect to determine the nature of charge	3	1	1							1	2	2

	carriers.										
CO3	Discuss the properties and applications of magnetic and super conducting materials.	3	1	1					1	2	2
CO4	Explain the different types of polarization process in dielectric materials, their frequency and temperature dependence and discuss the causes of dielectric breakdown	3	1	1					1	2	2
CO5	Describe metallic glasses and shape memory alloys and explain the synthesis, properties and applications of nano materials and carbon nano tubes	3	1	1					1	2	2

		CO1	Analyze the types of polymers, polymerization reactions, polymerization techniques and fabrication methods of polymers for engineering applications.	3	1	1					1	1	1
U14CHE205	Chemistry for Electrical	CO2	Describe the importance of various types of food products and their biological importance.	3	1	1					1	1	1
A	and Electronics Engineers	CO3	Discuss the role of Chemistry in day to day life.	3	1	1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
		CO4	Identify the various types of fuels, and explain their chemical compositions, properties and applications in engineering field.	3	1	1					1	1	1

		CO5	Outline the principle of organic electronic materials and its applications in the fabrication of electronic devices.	3	1	1							1	1	1
U14CPR206	Programming in C	CO1	Develop C Programs using basic programming concepts	2	2	2	2	2	1		2		2	2	2
		CO2	Develop C programs using arrays and strings	2	2	2	2	2	1		2		2	2	2
		CO3	Develop applications in C using functions , pointers and structures & input/output and file handling in C	2	2	2	2	2	1		2		2	2	2
		CO4	Write C program for simple applications of real life using structures and files	2	2	2	2	2	1		2		2	2	2

		CO5	Explain role of Operating system in computer system and applications of computer networks	2	2	2	2	2	1		2		2	2	2
		CO1	Develop in student's graphic skill for communication of concepts, ideas and design of engineering products	2		2		1	1			1	1	1	1
		CO2	Develop special curves such as polygons helices and screw threads	2		2		1	1			1	1	1	1
U14EGR207	Engineering Graphics	CO3	Develop the different shapes of machine components	2		2		1	1			1	1	1	1
		CO4	Create drawings for fabricating boilers, chimneys, ducts and machine structures	2		2		1	1			1	1	1	1
		CO5	Develop the solids and surfaces	2		2		1	1			1	1	1	1

		CO1	Demonstrate the application of a diode laser to determine the characteristics of a given optical fibre	3	1	1							1	1	1
U14PCL208	Physics & Chemistry Laboratory – II	CO2	Demonstrate the estimation of hydrochloric acid present in the given solution using pH meter	3	1	1							1	1	1
		CO3	Estimate the mixture of acids by conductometry	3	1	1							1	1	1
		CO1	Develop C Programs using basic programming concepts	2	2	2	2	2	1		2		2	2	2
U14CPL209	C Programmin	CO2	Develop C programs using arrays and strings	2	2	2	2	2	1		2		2	2	2
	g Laboratory	CO3	Develop applications in C using functions , pointers and structures & input/output and file handling in C	2	2	2	2	2	1		2		2	2	2

		CO1	Design and analyze the RLC series and parallel resonance circuits	3	3	3	3			2	2	2	3	3
U14BEEL2	Basic electrical and electronics Engineering	CO2	Analyze the circuits using Kirchoff's law.	3	3	3	3			2	2	2	3	3
10	Laboratory	CO3	Implement the logic function using logic gates and study the various functions of three phase AC circuits.	3	3	3	3			2	2	2	3	3
		CO1	Construct the Fourier series to solve the initial and boundary value problems	3	3	1	2					3	3	3
		CO2	Form partial differential equations and solve standard types of first order PDE and linear PDE of second order with constant coefficients	3	3	3	2					3	3	3

		CO3	Prove the properties of the Z- transform, apply convolution theorem to various functions and solve the difference equations.	3	3	1	2							3	3	3
U14GE301A	Transforms and Partial Differential Equations	CO4	Apply and solve vector spaces for different applications, explain linear independence and dependence of vectors and dimension of vector spaces	3	3	3	2							3	3	3
		CO5	Classify the quasi linear PDE and solve one dimensional wave equations and two dimensional heat equation	3	3	1	2							3	3	3
U14EC302	Electron Devices and Circuits	CO1	Understand the construction and modeling of semiconductor diodes and field-effect transistors	3	3	3	3	3	1		1	1	2	2	3	3
		CO2	Select the biasing circuits based on load line analysis.	3	3	3	3	3	1		1	1	2	2	3	3

		CO3	Perform mid band analysis of BJT and FET amplifiers.	3	3	3	3	3	1			1	1	2	2	3	3
		CO4	Analyze the frequency response of BJT and FET amplifiers and compute gain bandwidth product.	3	3	3	3	3	1			1	1	2	2	3	3
		CO5	Compare the large signal amplifiers with respect to distortions and thermal stability.	3	3	3	3	3	1			1	1	2	2	3	3
		CO1	Analyse D.C. Machines, starters and Speed control of D.C. shunt motors.	3	3	2	2	2	2	2	2		2	2	2	1	1
	Electrical Engineerin	CO2	Analyse the operation and construction of Transformers.	3	2	2	2	2	2	2	2		2	2	2	1	1
U14EE310	g	CO3	Design three phase induction motors.	3	2	2	2	2	2	2	2		2	2	2	1	1
		CO4	Describe stepper motor, synchronous and special machines.	3	2	2	2	2	2	2	2		2	2	2	1	1

		CO5	Develop EHVAC and EHVDC transmission systems.	3	2	2	2	2	2	2	2	2	2	2	1	1
		CO1	Identify different number system and its conversion; simplify Boolean expressions by different methods and implementation using logic gates.	3	3	3	3	1	1			1	2	2	3	3
	Digital	CO2	Design and implement combinational circuits using basic logic gates	3	3	3	3	3	1			1	2	2	3	3
U14EC303	Electronics	CO3	Design synchronous sequential circuits using flip flops.	3	3	3	3	2	1				2	2	3	3
		CO4	Design counters, registers and asynchronous sequential logic	3	3	3	3	2	1				2	2	3	3
		CO5	Design and implement asynchronous sequential circuits and explain the need for hazards.	3	3	3	3	3	1				2	2	3	3

		CO1	Perform multiple operations on CT and DT signals and analyse the characteristics of continuous and discrete time systems.	3	3	3	3	1					2	2	3	3
U14EC304	Signals and Systems	CO2	Apply Fourier series and Fourier Transform on CT signals and systems	3	3	3	3	1					2	2	3	3
	,	CO3	Analyse linear time invariant CT system.	3	3	3	3	1					2	2	3	3
		CO4	Apply DTFT and Z transform on DT signals and systems	3	3	3	3	1					2	2	3	3
		CO5	Analyze linear time invariant DT system.	3	3	3	3	1					2	2	3	3
		CO1	Describe natural resources and energy resources.			1	1		3	3	3	3	1	2	1	1

U14CHE304	Environm ental Science and Engineeri ng	CO2	Analyze ecosystems and biodiversity.		1	1		3	3	3	3		1	2	1	1
		CO3	Identify control measures to avoid environmental pollution		1	1		3	3	3	3		1	2	1	1
		CO4	Analyze social issues related to environmental ethics.		1	1		3	3	3	3		1	2	1	1
		CO5	Analyze the role of Information technology in environment and human health.		1	1	3	3	3	3	3		1	2	1	1
		CO1	Analyze diagnostic tests for communication, aptitude, verbal & employability and assess SWOT Analysis			1		2			3	3	3	3	2	2

		CO2	Develop soft skills, Career guidance transactional analysis and resume writing.				1		1		2	3	3	3	2	2
		CO3	Develop time management and stress management				1		2		3	3	3	3	2	2
U14GE302	Personality and Career Enhancement - I	CO4	Develop interpersonal skills and team work				1		2		3	3	3	3	2	2
		CO5	Develop meditation technique, communication castle and unscramble role play.				1		2		3	3	3	3	2	2
		CO1	Operate electronic test equipment and hardware tools and to use the same for conducting experiments.	2	2	2	2	1			2		3	1	3	3
U14EC305	Electronic Circuits	CO2	Draw and analyze VI characteristics of various diodes.	2	2	2	2	1			2		3	1	3	3
3112333	Laboratory	CO3	Analyze the input and output characteristics of various transistors and plot the frequency response of amplifier circuits.	2	2	2	2	1			2		3	1	3	3

		CO1	Design and implement combinational circuit using logic gates	2	2	2	2	1				2		3	1	3	3
U14EC306	Digital Electronics Laboratory	CO2	Design and develop various functional for sequential and combinational circuits.	2	2	2	2	1				2		3	1	3	3
		CO3	Develop Verilog HDL code for combinational and sequential circuits.	2	2	2	2	1				2		3	1	3	3
			Demonstrate active listening skills	1					1	2	2	3	3	2	2		
	Carananaiantian	CO2	Read fluently and comprehend the given texts.		2	1				2		3			2		
U14GE303	Communication Skills Laboratory		Make power point presentations and perform effectively in interviews and group discussions.	1	1			1		2		2			2	2	
		CO1	Explain the concepts of moments and its properties	3	2		1		1					2	1	2	2
		CO2	Estimate the covariance correlation and regression of random variables	3	2		1		1					2	1	2	2

		CO3	Classify the random process with examples	3	2		1		1			2	1	2	2
	Probability and Random Process	CO4	Analyze the concept of power spectral density and cross spectral density	3	2		1		1			2	1	2	2
		CO5	Analyze the response of random variables to LTI system.	3	2		1		1			2	1	2	2
		CO1	Solve the Maxwell's equation using vector calculus using 3 standard coordinate system.	3	2	2	3	1	1			2	1	3	3
		CO2	Apply vector calculus to solve static electric field problems for different engineering applications.	3	2	2	3	1	1			2	1	3	3
U14EC401	Electromagn etic Fields	CO3	Apply vector calculus to solve static magnetic field problems for different engineering applications.	3	2	2	3	1	1			2	1	3	3
		CO4	Analyze and compute the power flow mechanism in bounded and unbounded medium.	3	2	2	3	1	1			2	1	3	3

		CO5	Deduce EM wave propagation in free space and dielectric medium.	3	2	2	3	1	1			2	1	3	3
		CO1	Identify the feedback topology for the given circuit.	3	2	2	3	1	1			2	1	3	3
		CO2	Design a sine wave generator using LC and RC network.	3	2	3	3	1	1			2	1	3	3
U14EC402	Electronic Circuits	CO3	Analyse the performance of different types of tuned amplifiers.	3	2	2	3	1	1			2	1	3	3
		CO4	Design Wave shaping circuits for specific application.	3	2	3	3	1	1			2	1	3	3
		CO5	Describe the different types of blocking oscillators.	3	2	2	3	1	1			2	1	3	3
		CO1	Analyze the AC and DC characteristics of Op-Amp.	3	2	2	3	1	1			2	1	3	3

		CO2	Design Op-Amp circuit for linear applications	3	2	3	3	1	1			2	1	3	3
		CO3	Design Op-Amp circuit for non-linear applications and signal generation.	3	2	3	3	1	1			2	1	3	3
U14EC403	Linear Integrated Circuits	CO4	Analyze voltage reference circuits, regulators and design circuits using analog multipliers.	3	2	3	3	1	1			2	1	3	3
		CO5	Analyze the working of different types of ADC, DAC and PLL.	3	2	2	3	1	1			2	1	3	3
U14EE407	Control Systems	C01	Find the transfer functions using block diagram reduction techniques and signal flow graph.	3	2	2	3	1	1			2	1	2	1
0146640/	Control Systems		Analyze the time												
		CO2	domain specifications of first order System and	3	2	2	3	1	1			2	1	2	1

			second order System.												
		CO3	Design a system using Polar plot, Bode plot, M and N Circles and Nichol's Chart.	3	2	3	3	1	1			2	1	2	1
		CO4	Analyze the stability of the system using Routh Stability Criterion, Root Locus Construction and Nyquist Stability Criterion.	3	2	2	3	1	1			2	1	2	1
		CO5	Design of lead, lag and lead lag compensators.	3	2	3	3	1	1			2	1	2	1
		CO1	Discuss the measurement errors units, and standards.	3	3	3	2	1	1	2		2	2	3	3
		CO2	Design electromechanical instruments and bridges	3	3	3	2	1	1	2		2	2	3	3
		CO3	Construct electronic instruments and oscilloscopes.	3	3	3	2	1	1	2		2	2	3	3
U14EC404	Measurements and Instrumentations	CO4	Develop circuit for signal generators and frequency counters.	3	3	3	2	1	1	2		2	2	3	3

		CO5	Analyze different transducers, data acquisition system and fiber optic measurements.	3	3	2	2	1	1	2				2	2	3	3
		CO1	Build resume impressively.			1					3	3	3	1		1	1
		CO2	Communicate effectively.			1					3	3	3	1		1	1
U14GE301A	Personality and Career Enhancement	CO3	Involve actively in group discussion, interviews and presentation.			1					3	3	3	1		1	1
	- II	CO4	Develop public speaking skills.			1					3	3	3	1		1	1
		CO5	Participate actively in role play, and debate.			1					3	3	3	1		1	1
	Linear	CO1	Perform algebraic operations and generate waveforms using Op-amp IC741.	3	3	3	3					3	1	3	1	3	3
U14EC405	Integrated & Circuits Laboratory	CO2	Design analog filters using Op-amp IC741, monostable and astable multivibrator using IC555.	3	3	3	3					3	1	3	1	3	3

		CO3	Analyze voltage regulator using IC723 and design PLL using LM565.	3	3	3	3				3	1	3	1	3	3
		CO1	Design negative feedback amplifiers and plot its frequency response.	3	3	3	3				3	1	3	1	3	3
U14EC406	Electronic Circuits and Simulation Laboratory	CO2	Design different types of oscillators for the given specifications.	3	3	3	3				3	1	3	1	3	3
	Laboratory	CO3	Simulate oscillators and amplifier using PSPICE.	3	3	3	3	3			3	1	3	1	3	3
		CO1	Explain the fundamental concepts of fixed point iteration, methods to solve a linear system of equations by direct and iterative methods and method for finding eigen value of a matrix	3	3	2	2	1	1				1	2	2	2

U14MAT501B	Numerical Methods for Engineering Computation	CO2	Describe the Lagrangian polynomials, interpolation using cubic spline and state Newton's forward and backward difference formulas.	3	3	2	2	1	1			1	2	2	2
		CO3	Discuss to evaluate the derivatives from finite and divided differences and state the rules for numerical integration.	3	3	2	2	1	1			1	2	2	2
		CO4	Outline the working principles of single step methods & multi step methods for solution of ordinary differential equations	3	3	2	2	1	1			1	2	2	2
		CO5	Solve boundary value problems in ordinary and partial differential equations	3	3	2	2	1	1			1	2	2	2

U14EC501	Analog Communication System	CO1	Describe the generation and detection methods of various AM systems	3	3	2	2	1	1			2	2	3	3
		CO2	Explain the various types of generation and demodulation methods of FM systems.	3	3	2	3	1	1			2	2	3	3
		CO3	Describe the effect of noise in modulation systems and calculate the noise figure of cascaded amplifiers.	3	3	2	3	1	1			2	2	3	3
		CO4	Analyze and compare the noise performance of various analog modulation systems.	3	3	2	3	1	1			2	2	3	3
		CO5	Evaluate the coding efficiency of different source coding Techniques and discuss the concept of channel capacity and average information.	3	3	2	3	1	1			2	2	3	3

		CO1	Exploit the properties of discrete Fourier transforms and implement DFT using fast Fourier transform.	3	3	2	3	2	1			2	2	3	3
		CO2	Design and realize finite impulse response filters.	3	3	3	3	3	1			2	2	3	3
	Digital Signal Processing	CO3	Design and realize IIR filters.	3	3	3	3	3	1			2	2	3	3
U14EC502	i roccssmg	CO4	Analyze quantization effects and multirate signal processing.	3	3	2	3	3	1			2	2	3	3
		CO5	Discuss the architecture and addressing modes of digital signal processor TMS320C54.	3	1	2	1	3	1			2	2	3	3
U14EC503	Transmission Lines and Waveguides	CO1	Analyze electromagnetic wave propagation in generic transmission line geometries.	3	3	1	3	1	1				2	3	3

Design impedance matching transmission line and calculate the reflection coefficient, SWR, using smith chart.	3	3	3	3	3	1			2	2	3	3
Analyze guided waves and their field pattern between parallel planes of perfect conductors.	3	3	3	3	3	1			2	2	3	3
Design and measure the various propagating modes of rectangular wave guides.	3	3	3	3	3	1			2	2	3	3
Derive the field equation of circular waveguides and resonators.	3	3	2	3	3	1			2	2	3	3
Analyze the internal architecture of 8085 and write assembly language program in 8085µp.	3	1	3	2	2	1	2		2	2	3	3

		CO2	Interface various peripherals with 8085	3	1	3	2	2	1	2		2	2	3	3
	Microprocessor	CO3	microprocessor. Analyze internal architecture of 8086µp, addressing modes, instruction sets and write assembly language program using 8086µp.	3	1	3	2	2	1	2		2	2	3	3
U14EC504	and its applications	CO4	Apply the concepts of different coprocessors – numeric and I/O processor.	3	1	3	2	2	1	2		2	2	3	3
		CO5	Interface ROM, RAM, temperature controller and stepper motor.	3	1	3	2	2	1	2		2	2	3	3
		CO1	Discuss the functions of ISO/OSI model and its standards.	1	3	3	3	1	2			2	2	3	3
U14EC505	Computer Networks	CO2	Analyze the error detection and control mechanisms involved in the data link layer of different IEEE standards.	1	3	3	3	1	2			2	2	3	3

		CO3	Choose packet switching, sub netting and routing according to the functions of network layer	1	3	3	3	1	2				2	2	3	3
		CO4	Manage and control congestion in the network.	1	3	3	3	1	2				2	2	3	3
		CO5	Develop various network applications like FTP, Email, HTTP with network security	1	3	3	3	1	2				2	2	3	3
		CO1	Apply logic and calculations while tackling day-to-day arithmetic, involving simple-to-complicated problems			1				3	3	3	1		1	1
U14GE501	Personality and Career Enhancement - III	CO2	Discuss the concepts of time, distance and modern mathematics.			1				3	3	3	1		1	1
		CO3	Explain the basic concepts of logical reasoning and data interpretation.			1				3	3	3	1		1	1

		CO4	Discuss Sentence correction and Etymology.			1				3	3	3	1		1	1
		CO5	Illustrate communication techniques such as GD, debate, extempore and crossword puzzles			1				3	3	3	1		1	1
		CO1	Develop programs for arithmetic operations, code conversion using 8085 Microprocessor.	3	2	3	2	1	3			2	2	2	3	3
U14EC506	Microprocessor Laboratory	CO2	Write programs for arithmetic operations, code conversion using 8086 Microprocessor.	3	2	3	2	1	3			2	2	2	3	3
		CO3	Interface 8085 microprocessor with Stepper motor interface, calculate Length of a String and Block transfer using 8086	3	2	3	2	1	3			2	2	2	3	3

		CO1	Perform Convolution and generation of signals using MATLAB and TMS320C54 Processor.	3	2	3	2	3	2			2	2	2	3	3
U14EC507	Digital Signal Processing Laboratory	CO2	Analyze sampling theorem and calculation of DFT using MATLAB and TMS320C54 Processor.	3	2	3	2	3	2			2	2	2	3	3
		CO3	Design of FIR and IIR filters using MATLAB and TMS320C54 processor.	3	2	3	2	3	2			2	2	2	3	3
		CO1	Simulate CSMA/CD protocol in Token bus and Token ring	1	1	3	3	1		1	2			2	3	3
		CO2	Transfer data using Wireless LAN protocols stop and wait protocol, Go back N and selective reject protocols.	1	1	3	3	1		1	2			2	3	3
U14EC508	Computer Networks Laboratory	CO3	Find shortest path using Distance Vector Routing algorithm and Link State Routing algorithm.	1	1	3	3	1		1	2			2	3	3

		CO1	Describe the fundamentals of monochrome and color image processing and analyze the basic relations between pixels, connectivity and distance measures.	3	3	3	3	3			2	2	2	3	3
		CO2	Apply DFT DCT, DST, Walsh, Hadamard, Haar, wavelet and SVD transform for images.	3	3	3	3	3				2	2	3	3
U14EC601	Digital Image	CO3	Apply image enhancement techniques in spatial and frequency domain.	3	3	3	3	3			2	2	2	3	3
	processing	CO4	Analyze image restoration using constrained and unconstrained filters and image segmentation approaches.	3	3	3	3	3			2	2	2	3	3
		CO5	Appraise the need for image compression using lossy and lossless techniques.	3	3	3	3	3			2	2	2	3	3

		CO1	Analyze the sampling process and different types of digital pulse modulation techniques.	3	2	2	1	3			2	2	2	3	3
		CO2	Describe the baseband pulse transmission and the features of duobinary coding.	3	2	2	1	3			2	2	2	3	3
U14EC602	Digital Communication	CO3	Derive the bit error probability of digital modulation techniques and compare the various digital modulation methods.	3	2	3	2	3			2	2	2	3	3
		CO4	Compute the code vectors for different error control coding techniques.	3	2	3	2	3			2	2	2	3	3
		CO5	Calculate the performance parameters of spread spectrum modulation methods.	3	2	3	2	3			2	2	2	3	3

		CO1	Discuss the fundamentals and radiation pattern of antenna.	3	3	3	3	3	1		2	2	2	3	3
		CO2	Evaluate the parameters of antenna arrays.	3	3	3	3	3	1		2	2	2	3	3
		CO3	Design wide band antennas for various specifications.	3	2	3	3	3	1		2	2	2	3	3
	Antenna and														
U14EC603	Wave Propagation	CO4	Identify the types of antennas for special applications.	3	2	3	3	3	1		2	2	2	3	3
		CO5	Analyze the atmospheric and terrestrial effects on Radio wave propagation.	3	1			3	1		2	2	2	3	3
U14EC604	VLSI Design	CO1	Analyze the characteristics of MOS Transistor.	3	2	2	2	3	1		2	2	2	3	3

		CO2	Design and fabricate the CMOS circuits.	3	2	2	2	3	1		2	2	2	3	3
		C03	Estimate and analyze the resistance, capacitance and power dissipation in CMOS.	3	2	2	2	3	1		2	2	2	3	3
		CO4	Perform design verification and testing of MOS circuits.	3	2	2	2	3	1		2	2	2	3	3
		CO5	Write the VHDL code for combinational and sequential circuits.	3	2	2	2	3	1		2	2	2	3	3
		CO1	Explain the architecture of 8051 microcontroller.	3		3		3	2		2	2	2	3	3
		CO2	Write an assembly language program to access hardware peripherals of 8051.	3	2	3	2	3	2		2	2	2	3	3
U14EC605	Micro controller and RISC Architecture	CO3	Analyze the architecture and programming of PIC microcontroller	3	2	3	2	3	2		2	2	2	3	3

		CO4	Analyze the architecture, programming and interfacing of ARM	3	2	3	2	3	2		2	2	2	3	3
		C05	Evaluate ARM The ARM programmer's model-3 stage and 5 stage pipeline ARM organization, ARM instruction set and TDMI architecture	3	2	3	2	3	2		2	2	2	3	3
		CO1	Recognize the anatomy and physiology of human body and understand the basics of biomedical instrumentation systems like ECG, EMG, EOG, and EMG & EEG.	3				3	2		2	2	2	3	3
U14EC606	Medical Instrumentation	CO2	Analyze and explain various methods for blood flow measurement and biochemical measurement techniques.	3				3	2		2	2	2	3	3
		CO3	Discriminate various therapeutic equipment and	3				3	2		2	2	2	3	3

			patient safety.											
		CO4	Outline the objectives and working principles of the various medical imaging systems	3		3	2			2	2	2	3	3
		CO5	Elaborate the role of computers in medicine	3		3	2			2	2	2	3	3
		CO1	Explain about prioritizing, planning and organizing of an event and importance of delegating skills.		1			3	3	3	1		1	1
U14GE601	Personality and Career Enhancement	CO2	Develop Entrepreneurial Skills and understanding of Entrepreneurship and entrepreneurial Competencies and identifying the advantages of Entrepreneur		1			3	3	3	1		1	1
	- IV		Prepare one- self to deal with criticism, demonstrate interview techniques, and manage the frequently asked questions in the interview and explain about the presentation skills		1			3	3	3	1		1	1

		CO4	State the development of Personal Effectiveness by positive intention, creative problem solving and effective decision making.			1				3	3	3	1		1	1
		CO5	State the importance of Business and Cross cultural Etiquette and Personal Grooming, Ethics and Human Values			1				3	3	3	1		1	1
	Communication Laboratory	CO1	Construct the circuit for generation and demodulation of analog and digital modulation Techniques.	3	3	3	3	2			3		2	2	3	3
U14EC607	(Analog, Digital and RF)	CO2	Analyze the types of filters using network Analyzer.	3	3	3	3	2			3		2	2	3	3
	,	CO3	Plot the radiation pattern of Half wave dipole, Yagi and loop antennas.	3	3	3	3	2			3		2	2	3	3

		CO1	Design and simulate combinational and sequential logic circuits using VHDL.	3	3	3	3	3		3	2	2	3	3
		CO2	Design CMOS circuit using SPICE	3	3	3	3	3		3	2	2	3	3
U14EC608	VLSI Laboratory	CO3	Implement combinational and sequential logic circuits in FPGA.	3	3	3	3	3		3	2	2	3	3
		CO1	Write a MATLAB code to demonstrate and perform various operations related to image processing.	3	3	3	3	3		3	3	2	3	3
U14EC609	Digital Image	CO2	Generate a LABVIEW code to demonstrate and perform various operations related to image processing.	3	3	3	3	3		3	3	2	3	3
31.2333	Processing Laboratory	CO3	Write a MATLAB code or generate a LABVIEW code to demonstrate and perform various operations related to image processing	3	3	3	3	3		3	3	2	3	3

		CO1	Analyze and identify the engineering problems to formulate the literature survey.	3	3	3	3	3	3	3	2	3	3	3	3	3	3
U14EC610	Mini Project	CO2	Design system components that	3	3	3	3	3	3	3	2	3	3	3	3	3	3
		CO3	Apply knowledge for carrying out the project in team and perform documentation effectively	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		001	ethical behavior of an engineer.						3	3	3	3	3	2	2	1	1
		CO2	Utilize opportunities to explore one's own values in ethical issues.	3					3	3	3	3	3	2	2	1	1
	Professional Ethics and		or corrudct	3					3	3	3	3	3	2	2	1	1
U14GE701A	Human Values		Know the values of Engineering as social experimentation	3					3	3	3	3	3	2	2	1	1

		CO5	ethical dilemmas.						3	3	3	3	3	2	2	1	1
		CO1	Describe the different layers of WLAN.	3		1		2	2					2	2	3	3
		CO2	Compare the different generation of WMAN.	3		1		2	2					2	2	3	3
		CO3	Analyze the architecture of Wireless MANs and PANs.	3		1		2	2					2	2	3	3
U14EC701	Wireless Networks	CO4	Analyze the multiple radio access techniques.	3		1		2	2					2	2	3	3
		C05	Analyze the routing protocols for Ad hoc and sensor networks.	3		1		2	2					2	2	3	3
	Optical Fiber	CO1	Describe the basic elements of optical fiber link, fiber modes configurations and structures.	3		1	2							2	2	3	3
U14EC702	Communication	CO2	Analyze the different kind of losses, distortion in optical waveguides.	3	2	2	2	2	2	1				2	2	3	3

		CO3	Analyze the optical source materials.	3	2	3	2	2	2	1			2	2	3	3
		CO4	Estimate the noise performance in optical receivers.	3	2	2	2	2	2	1			2	2	3	3
		CO5	Explain fiber splicing techniques, operational WDM and solitons.	3	2	2	2	3	2		1		2	2	3	3
		CO1	Estimate the S parameters for different microwave components.	3	3	3	2	2		1			2	2	3	3
		CO2	Analyze the power and efficiency of microwave linear tubes and magnetron.	3	3	3	2	2		1			2	2	3	3
U14EC703	Microwave Engineering	CO3	Analyze the characteristics of different microwave Semiconductor diodes.	3	3	3	2	2		1			2	2	3	3
		CO4	Design strip lines and coplanar waveguides.	3	3	3	2	2		1			2	2	3	3
		CO5	Evaluate the microwave parameters using different measurement techniques.	3	3	3	2	2		1			2	2	3	3

		CO1	Summarize the hardware and software architecture for an embedded system.	3	1	3	1	3	3			3	3	3	3
		CO2	Develop algorithm to optimize program size, execution time, power, and energy.	3	1	3	1	3	3			3	3	3	3
	Elective – I	CO3	Describe the Multiprocessor and Inter Process communication mechanism	3	1	3	1	3	3			3	3	3	3
U14EC921	Embedded and Real-time systems	CO4	Design an application using RTOS kernel objects.	3	1	3	1	3	3			3	3	3	3
		CO5	Design hardware and software architecture for hand held devices.	3	1	3	1	3	3			3	3	3	3
U14EC912	Elective – II Computer Hardware interfacing	CO1	Identify different components like CPU and explain memory organization and over clocking.	3	1	3	1	3	3			3	3	3	3

		CO2	Differentiate various input and output system of PC	3	1	3	1	3	3			3	3	3	3
		CO3	Describe different types of I/O peripherals	3	1	3	1	3	3			3	3	3	3
		CO4	Differentiate storage devices, controllers and standard interfaces	3	1	3	1	3	3			3	3	3	3
		CO5	Provide the details of bus interface systems and recent trends in the PC	3	1	3	1	3	3			3	3	3	3
LI14FC020	Nano		Describe the basis of Nano, different microscopes, X ray diffraction and associated techniques.	3	1	3	1	3	3			3	3	3	3
U14EC920	Electronics.		Provide the overview of the Diversity in nano systems like conductivity and super conductivity etc.	3	1	3	1	3	3			3	3	3	3

		CO3	Provide the overview of method of preparation of Nano particles and the nano shells.	3	1	3	1	3	3			3	3	3	3
			Describe the interaction between bio And nano particle applications, State about nano sensors and its types.	3	1	3	1	3	3			3	3	3	3
		CO5	Provide the overview of nano technology in connection with the society like Issues, Nano policies and institutions	3	1	3	1	3	3			3	3	3	3
		CO1	Plot the characteristics of reflex klystron mode and Gunn diode.	3	3	2	1				2	3	3	3	3
U14EC704	Optical and Microwave Laboratory	CO2	Measure the frequency, Impedance, wavelength &VSWR of microwave components.	3	3	2	1				2	3	3	3	3

		CO3	Analyze the working of Horn Antenna, Magic tee, directional couplers, circulator, isolator and optical devices	3	3	2	1	2					2	3	3	3	3
		CO1	Design AC and DC voltage regulator.	3	3	3	3	3	1					3	3	3	3
		CO2	Design a data acquisition and storage signals using PC	3	3	3	3	3	1					3	3	3	3
U14EC705	Electronic System Design Laboratory	CO3	Design the multi rate processing, modulation and demodulation circuits	3	3	3	3	3	1					3	3	3	3
		CO1	Identify problems, formulate literature survey and analyze engineering problems.	3	3	3	3	3	3	2	3	3	3	3	3	3	3

		ı															
U14EC706	Project Work Phase - I	CO2	Design system component that acquire the needs for public health and environment consideration.	3	3	3	3	3	3	2	3	3	3	3	3	3	3
		CO3	Form a team for carrying the project and perform documentation effectively.	3	3	3	3	3	3	2	3	3	3	3	3	3	3
		CO1	Learn the basic cellular radio concepts and capacity expansion techniques in a cellular system.	3		1		3	2				1	2	2	3	3
U14EC801	Cellular and Mobile Communication	CO2	Predict the large scale and small effects of radio propagation in many operating environments.	3	2	2	2	3	2				1	2	2	3	3

		CO3	Classify the modulation techniques used in wireless communication and provide an overview of equalization and diversity concepts.	3	2	2	2	3	2				1	2	2	3	3
		CO4	Identify several types of speech coders.	3		3	2	3	2				1	2	2	3	3
		CO5	Provide an overview of second generation and third generation wireless networks.	3		2	2	3	2				2	2	2	3	3
		CO1	Describe ISDR and discuss the concept of disaster preparedness.		2			2	3	3	3	3	3	3	3	2	2
		CO2	Involve intranets and extranets and GIS in risk reduction.	3	2			2	3	3	3	3	3	3	3	2	2
U14EC802	Disaster Management	CO3	Create public awareness for risk reduction.	3	2			2	3	3	3	3	3	3	3	2	2
		CO4	Describe the features of community based disaster management and emergency Response.		2			2	3	3	3	3	3	3	3	2	2
			Discuss seismic waves,														

		COL		_				_		_	_		-	_	 <u> </u>	<u> </u>
		CO5	earth quakes and types of faults, explain measures of Earthquake, describe ground damage and provide an overview of tsunamis and earthquakes.	3	2			2	3	3	3	3	3	3	2	2
	Elective	CO1	Learn the basic concept of TV Picture and Sound principles, transmission and defining the basic concepts of scanning process, aspect ratio, camera tubes.	1		2	3	3							3	3
U14EC926	Television and Video Engineering	CO2	Provide an overview of composite video signal, outline of blanking standards and working principles of colour TV systems	1		2	3	3				2			3	3
		CO3	Describe the TV modulation techniques and working principles of TV transmitters and outline of propagation phenomena	1	1	2	3	3		2			3		3	3

		CO4	Classify the monochrome and colour receivers and tuners and working principles of picture tubes and deflection systems	1	1	2	3	3		2		3			3	3
		CO5	Provide an over view of advanced display systems like LCD, LED and 3D TV and outline of video disc systems like CD and DVD, outline of DTH and digital TV			2	3	3		2		3		3	3	3
		CO1	Analyze the orbital parameters using Kepler's law.	3	2		2		1			2	2	2	3	3
		CO2	Estimate the link power budget.	3	2	3	3	2	1			2	2	2	3	3
114 45 00 22	Elective	CO3	Analyze the different types of multiple access techniques.	3	2	3	3	2	1			2	2	2	3	3
U14EC922	Satellite Communication	CO4	Explain transmitters, receivers and antennas for earth segment.	3	2			1	1			2	2	2	3	3
		CO5	Discuss the applications of satellite communication.	3	2			3	1			2	2	2	3	3

		CO1	Explain the architecture SONET/SDH.	3		3		3	2				2	2	2	3	3
		CO2	Describe digital switching techniques	3		3		3	2				2	2	2	3	3
	Elective Telecommunication and Switching	CO3	Analyze the network synchronization and management techniques.	3	2	3	2	3	2				2	2	2	3	3
	Networks	CO4	Analyze digital subscriber access techniques.	3	2	3	2	3	2				2	2	2	3	3
		CO5	Analyze the traffic to avoid the blocking probabilities.	3	2	3	2	3	2				2	2	2	3	3
		CO1	Apply knowledge and demonstrate to manage project in multi- disciplinary areas	3	3	3	3	3	3	2	3	3	3	3	3	3	3
U14EC803	Project Work Phase - II	CO2	Design and conduct experiments to interpret data pertaining to engineering problems	3	3	3	3	3	3	2	3	3	3	3	3	3	3
		CO3	To prepare documentation and presentation	3	3	3	3	3	3	2	3	3	3	3	3	3	3

3.2 Attainment of Course Outcomes (75)

3.2.1 Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based (10)

1. Direct Assessment Tools

Assignment

The assignment is a qualitative performance assessment tool designed to assess students' knowledge of engineering practices, framework, and problem solving. An analytic rubric was developed to assess students' knowledge with respect to the learning outcomes associated with the scenario tool.

CIE tests for theory courses

This type of performance assessment is carried out during the examination sessions which are held thrice for a course in every semester. Each and every CIE test is focused in attaining the course outcomes.

CIE tests for lab courses

This type of performance assessment is carried out during the internal practical examination sessions which are held twice in every semester for each lab course. Each and every CIE test is focused in attaining the course outcomes of lab courses.

Real time problem solving

This type of performance assessment is carried out during the practical sessions which are held once in a semester. Each and every session is focused in attaining the course outcomes.

Semester End Examination

Semester End examination is a metric for assessing whether the COs are attained or not. Examination is more focused on attainment of course outcomes using a descriptive exam.

Project review & presentation

This type of performance assessment is carried out in the final year in phase one and phase two. Each and every review is focused in attaining the program outcomes.

Group discussion & aptitude test

This type of performance assessment is carried out every semester for the second and third year students. The test is focused in attaining the program outcomes.

The approach in evaluating the attainment of CO is using existing data from students' marks. This method is chosen because of the information is readily available and it is common for most courses. In general, assessment methods used are grouped into 5 categories: (1) Continuous Internal Evaluation (CIE) Tests (2) Model exam (3) Assignments (4) Seminar (5) Semester End Examination (SEE). Each of these categories contributes a certain portion of the marks into some of the COs. This matrix shows the weightage distribution of the percentage of marks distribution for each specified CO.

The following table shows the sample CO calculation for the regulation 2010R, VI semester.

ASSESSMENT TYPE		COURSE O	UTCOMES		
	CO1	CO2	CO3	CO4	CO5
SEE	20%	20%	20%	20%	20%
CIE1	67%	33%	-	-	-
CIE2	-	33%	67%	-	-
CIE3	-	-	-	50%	50%
MODEL	20%	20%	20%	20%	20%
ASSIGNMENT/ SEMINAR	20%	20%	20%	20%	20%
Total	127%	126%	127%	110%	110 %

Table 3.2.1

Table 3.2.1 shows a general form of assessment-CO matrix. The number in the matrix shows the amount, in terms of percentage, contributes for each CO.

An example of Assessment-CO matrix Assessment Type Course Outcomes (CO) CO1, CO2, CO3, CO4 and CO5 .

In the example above, the Semester End Exam contributes to all outcomes (CO1,CO2, CO3, CO4 and CO5) with equal percentages. Other types of assessment contribute differently to the outcomes as the number or percentage shown in the matrix. Each CO will have its own 'mark' based on the percentage given. The 'CO-mark' is calculated based on the percentage of marks distribution for each assessments group.

The following weightage is allotted for the assignment mark based on the unit taken into consideration.

1. Assignment covering 5 units 20% each

2. Covering 4 units 25 % each

3. Covering 3 units 33% + 33% + 34%

4. Covering 2 units 50% each

The attainment calculation of individual COs for direct assessment is estimated as per the formulae mentioned below:

The following snapshot is an example for CO calculation for the course U10EC601R-Digital Image Processing for the batch 2012-16 under regulation 2010R.

1	Course	Branch	Student Name	CIE1	CIE2	CIE3	Model	Assign.	SEE	CO1	CO2	CO3	CO4	CO5
2	BE	ECE	AKSHAYA R	48	49	48	92	5	90	120.72	120.42	122.06	104.4	104.4
3	BE	ECE	ANANDHY M	47	49	50	90	5	90	118.98	119.36	121.66	106	106
4	BE	ECE	ANBARASAN M	32	37	42	76	5	80	94.08	96.74	100.78	93.2	93.2
5	BE	ECE	ARAVINDHAKUMAR A	28	28	25	62	5	56	81.12	80.56	81.12	68.6	68.6
6	BE	ECE	ARUN KUMAR R	33	28	35	65	5	70	91.22	87.26	84.52	82	82
7	BE	ECE	ARUN KUMAR S	37	32	37	77	5	70	98.98	94.94	92.28	86.4	86.4
8	BE	ECE	ASHA V K PRIYADHARSHINI	35	41	40	83	5	80	99.5	102.76	107.54	92.6	92.6
9	BE	ECE	ASHIKA ZULFIA M	35	43	38	80	5	70	96.9	101.48	107.62	88	88
10	BE	ECE	ASHWINI V	48	46	42	94	5	90	121.12	118.84	118.44	98.8	98.8
11	BE	ECE	BALA VIGNESH K G	37	32	42	71	5	80	99.78	95.74	93.08	92.2	92.2
12	BE	ECE	BRINDHASHINI VISVANATHAN	46	42	45	69	5	80	111.44	107.88	106.08	94.8	94.8
13	BE	ECE	DEEKSHA A	46	44	44	0	5	70	95.64	93.4	92.96	78	78
14	BE	ECE	DEVIPRIYA S	33	36	33	63	5	60	88.82	90.14	92.84	77.6	77.6
15	BE	ECE	DHAARANI R	32	29	37	74	5	70	91.68	89.06	87.66	85.8	85.8
16	BE	ECE	DINESH KUMAR T	37	32	32	73	5	80	100.18	96.14	93.48	82.6	82.6
17	BE	ECE	DINESHKUMAR N	44	39	43	95	5	80	113.96	109.78	107.26	98	98

After calculating each CO, the CO attainment from the direct assessment is calculated as the percentage of students scored more than the target value (65%).

2. Indirect Assessment Tools

Indirect assessment strategies are calculated from course end survey reports collected at the end of every semester.

After collection of individual survey forms, the marks for COs are calculated based on the following formula:

$$= \frac{ [\text{(No. of students strongly agree} \times 3) + (\text{No. of students agree} \times 2) + (\text{No. of students disagree} \times 1)]}{(\text{Total no. of students} \times 3)} \times 100$$

The above formula is used to calculate the marks for indirect COs of all the courses in the curriculum in the respective regulation.

Final CO attainment for each course is calculated based on the contribution of direct and indirect assessments as per the weightage given below:

- 1. Direct Assessment (70%)
- 2. Indirect Assessment (30%)

Final CO attainment level = [(70% Direct assessment + 30 % Indirect assessment)/ 100]

Sl.No	Code	Courses	Assessed COs	Direct assessment A	Indirect assessment B	Total	Attainment level
			CO1	90.13	81.36	87.50	9
		DIGITAL IMAGE	CO2	86.18	78.73	83.95	9
1	U10EC601R	PROCESSING	CO3	76.97	81.14	78.22	8
		PROCESSING	CO4	86.18	80.04	84.34	9
			CO5	86.18	83.77	85.46	9
			CO1	71.05	80.48	73.88	8
		DIGITAL	CO2	73.03	82.24	75.79	8
2	U10EC602R	COMMUNICATION	CO3	73.68	82.24	76.25	8
		COMMONICATION	CO4	59.87	83.33	66.91	7
			CO5	59.87	82.68	66.71	7
			CO1	63.82	83.33	69.67	7
		ANTENNA AND	CO2	65.79	81.14	70.39	8
3	U10EC603R	WAVE	CO3	71.71	83.33	75.20	8
		PROPAGATION	CO4	50.00	83.11	59.93	6
			CO5	50	83.99	60.20	7
		l	~~.	70.000.000	22.52	25.46	

3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65)

CO ATTAINMENT FOR THE STUDENTS OF 2014-18 BATCH

Course Code	Name of the subject	COs	Direct Value	Indirect Value	Total
		CO1	99.15	84.62	94.79
		CO2	99.15	83.76	94.53
U14ENG101	Technical English – I	CO3	99.15	84.33	94.70
		CO4	100.00	84.90	95.47
		CO5	100.00	86.04	95.81
		CO1	88.03	78.92	85.30
		CO2	88.03	80.91	85.90
U14MAT102	Multivariable Calculus and Matrices *	CO3	88.89	83.48	87.26
		CO4	79.49	82.62	80.43
		CO5	79.49	81.48	80.09
		CO1	85.47	85.75	85.56
		CO2	88.89	86.61	88.21
U14PHY103	Engineering Physics *	CO3	94.87	85.47	92.05
		CO4	92.31	85.75	90.34
		CO5	92.31	85.47	90.26
		CO1	82.91	85.19	83.59
		CO2	90.60	83.19	88.38
U14CHE104	Engineering Chemistry *	CO3	94.02	84.62	91.20
		CO4	90.60	85.75	89.15
		CO5	90.60	84.90	88.89
		CO1	74.36	78.92	75.73
		CO2	76.92	85.19	79.40
U14FOC105	Fundamentals of Computing Systems *	CO3	76.92	81.48	78.29
		CO4	87.18	84.33	86.32
		CO5	87.18	85.47	86.67
		CO1	85.47	88.89	86.50
		CO2	92.31	88.32	91.11
U14BEE106	Basic Electrical & Electronics Engineering	CO3	93.16	87.75	91.54
		CO4	93.16	88.60	91.79
		CO5	93.16	88.32	91.71
		CO1	85.47	94.59	88.21
U14PCL107	Physics & Chemistry Laboratory-1	CO2	92.31	94.02	92.82
		CO3	95.73	96.58	95.98
U14CPL108	Computer Practices Laboratory *	CO1	79.49	95.44	84.27
014011100	Computer i ractices caporatory	CO2	93.16	94.87	93.68

		CO3	93.16	95.16	93.76
		CO1	98.29	96.58	97.78
U14EPL109	Engineering Practices Laboratory *	CO2	99.15	95.73	98.12
011212100		CO3	100.00	96.01	98.80
		CO1	92.31	77.78	87.95
		CO2	96.58	84.90	93.08
U14ENG201	Technical english – ii	CO3	100.00	79.49	93.85
	3	CO4	100.00	74.36	92.31
		CO5	100.00	79.49	93.85
		CO1	84.62	78.35	82.74
		CO2	84.62	88.32	85.73
U14MAT202	Vector calculus, differential equations and	CO3	82.05	78.35	80.94
	complex analysis	CO4	86.32	76.92	83.50
		CO5	86.32	83.19	85.38
		CO1	98.29	88.60	95.38
		CO2	94.87	84.62	91.79
U14PHY203	Material science	CO3	88.89	79.77	86.15
		CO4	96.58	85.47	93.25
		CO5	96.58	78.63	91.20
		CO1	87.18	79.49	84.87
		CO2	79.49	83.19	80.60
U14CHE205 A	Chemistry for electrical and electronics engineers	CO3	70.94	82.62	74.44
^	engineers	CO4	69.23	81.48	72.91
		CO5	69.23	81.48	72.91
		CO1	75.21	94.02	80.85
		CO2	68.38	90.03	74.87
U14CPR206	Programming in c	CO3	59.83	87.46	68.12
		CO4	64.10	92.02	72.48
		CO5	64.10	89.74	71.79
		CO1	86.32	81.20	84.79
		CO2	87.18	84.05	86.24
U14EGR207	Engineering graphics	CO3	84.62	86.32	85.13
		CO4	90.60	87.18	89.57
		CO5	90.60	83.19	88.38
		CO1	100.00	86.61	95.98
U14PCL208	Physics and chemistry laboratory - ii	CO2	100.00	91.17	97.35
		CO3	88.89	87.75	88.55
		CO1	100.00	91.45	97.44
U14CPL209	C programming laboratory	CO2	98.29	90.03	95.81
		CO3	77.78	90.03	81.45
	Post Florida A. F. C. C. C.	CO1	100.00	90.31	97.09
U14BEEL210	Basic Electrical And Electronics Engineering Laboratory	CO2	100.00	91.17	97.35
		CO3	76.92	91.45	81.28

		CO1	76.60	80.75	77.84
		CO2	80.85	82.16	81.24
U14GE301A	Transforms and partial differential equations	CO3	82.98	82.16	82.73
		CO4	85.82	80.52	84.23
		CO5	85.82	80.52	84.23
		CO1	90.07	82.63	87.84
		CO2	88.65	82.63	86.85
U14EC302	Electronics Devices	CO3	91.49	79.81	87.99
		CO4	97.87	81.69	93.02
		CO5	97.87	80.28	92.60
		CO1	95.04	81.92	91.10
		CO2	92.20	83.10	89.47
U14EC303	Digital System Design	CO3	87.23	82.63	85.85
		CO4	93.62	84.98	91.02
		CO5	93.62	81.92	90.11
		CO1	85.82	81.92	84.65
		CO2	85.11	77.23	82.74
U14EC304	Signals And Systems	CO3	88.65	74.65	84.45
		CO4	95.04	75.35	89.13
		CO5	95.04	70.19	87.58
		CO1	93.62	79.81	89.48
		CO2	92.91	78.17	88.49
U14EE310	Electrical Engineering	CO3	90.78	81.69	88.05
		CO4	95.74	81.69	91.53
		CO5	95.74	71.83	88.57
		CO1	98.58	79.58	92.88
		CO2	98.58	82.63	93.80
U14CHE304	Environmental Science	CO3	99.29	81.69	94.01
		CO4	97.87	79.81	92.45
		CO5	97.87	81.22	92.88
		CO1	93.62	82.86	90.39
		CO2	90.78	83.33	88.55
U14GE302	PACE	CO3	86.52	83.10	85.50
		CO4	94.33	80.75	90.25
		CO5	94.33	81.69	90.54
		CO1	100.00	81.92	94.58
U14GE303	Communication Skill Lab	CO2	100.00	83.10	94.93
		CO3	100.00	83.80	95.14
		CO1	99.29	81.22	93.87
U14EC306	Digital Lab	CO2	99.29	83.33	94.50
		CO3	99.29	83.33	94.50
U14EC305	Electronics lab	CO1	97.87	81.22	92.88
01740000	Liconomics lab	CO2	100.00	83.10	94.93

		CO3	100.00	83.10	94.93
		CO1	73.76	81.09	75.96
		CO2	69.50	82.51	73.40
U14MAT401	Probability and random process	CO3	70.21	82.51	73.90
С		CO4	78.72	80.85	79.36
		CO5	78.72	80.85	79.36
		CO1	78.72	79.67	79.01
		CO2	82.27	83.22	82.55
U14EC401	Electromagnetic fields	CO3	92.20	82.03	89.15
		CO4	97.16	79.91	91.99
		CO5	97.16	81.32	92.41
		CO1	83.69	82.51	83.33
		CO2	91.49	81.56	88.51
U14EC402	Electronic circuits	CO3	96.45	79.91	91.49
		CO4	97.87	81.80	93.05
		CO5	97.87	79.43	92.34
		CO1	93.62	82.27	90.21
		CO2	94.33	83.45	91.06
U14EC403	Linear integrated circuits	CO3	92.91	82.98	89.93
		CO4	95.74	85.34	92.62
		CO5	95.74	82.27	91.70
		CO1	79.43	82.51	80.35
		CO2	79.43	77.54	78.87
U14EE407	Control systems	CO3	80.14	75.18	78.65
		CO4	90.78	75.89	86.31
		CO5	90.78	70.45	84.68
		CO1	95.04	80.14	90.57
		CO2	95.04	78.49	90.07
U14EC404	Measurements and instrumentation	CO3	92.20	82.03	89.15
		CO4	93.62	82.03	90.14
		CO5	93.62	72.10	87.16
		CO1	94.33	79.91	90.00
		CO2	92.91	82.98	89.93
U14GE402	Personality and career enhancement	CO3	91.49	82.03	88.65
		CO4	97.16	80.14	92.06
		CO5	97.16	81.56	92.48
		CO1	100.00	81.56	94.47
U14EC406	Electronic circuit and simulation Laboratory	CO2	100.00	83.45	95.04
		CO3	100.00	83.45	95.04
		CO1	100.00	81.56	94.47
U14EC405	Linear integrated circuits Laboratory	CO2	100.00	83.69	95.11
		CO3	100.00	83.69	95.11
U14MAT501B	Numerical methods	CO1	78.01	81.09	78.94

		CO2	81.56	81.09	81.42
		CO3	80.14	82.51	80.85
		CO4	79.43	82.51	80.35
		CO5	79.43	83.69	80.71
		CO1	65.25	81.09	70.00
		CO2	73.05	80.61	75.32
U14EC501	Analog communication systems	CO3	78.01	81.80	79.15
	,	CO4	68.09	81.56	72.13
		CO5	68.09	82.74	72.48
		CO1	75.18	83.45	77.66
		CO2	66.67	81.09	70.99
U14EC502	Digital signal processing	CO3	61.70	82.03	67.80
		CO4	82.98	82.74	82.91
		CO5	82.98	82.98	82.98
		CO1	47.52	82.27	57.94
		CO2	53.90	82.98	62.62
U14EC503	Transmission lines and waveguides	CO3	54.61	82.27	62.91
		CO4	62.41	84.40	69.01
		CO5	62.41	82.74	68.51
		CO1	82.98	83.45	83.12
		CO2	82.27	82.98	82.48
U14EC504	Microprocessor and its application	CO3	79.43	82.51	80.35
		CO4	91.49	82.98	88.94
		CO5	91.49	82.74	88.87
		CO1	63.12	85.34	69.79
		CO2	61.70	83.45	68.23
U14EC505	Computer networks	CO3	65.25	85.34	71.28
		CO4	75.18	82.98	77.52
		CO5	75.18	83.45	77.66
		CO1	44.68	84.40	56.60
		CO2	65.25	83.45	70.71
U15EC501	Personality and Carrier Enhancement	CO3	85.11	83.92	84.75
		CO4	61.70	83.92	68.37
		CO5	61.70	84.87	68.65
		CO1	94.33	85.82	91.77
U14EC508	Computer networks Lab	CO2	97.16	84.63	93.40
		CO3	100.00	85.82	95.74
		CO1	100.00	85.58	95.67
U14EC507	Digital signal processing Lab	CO2	100.00	84.16	95.25
		CO3	99.29	86.29	95.39
		CO1	98.58	85.11	94.54
U14EC506	Microprocessor lab	CO2	98.58	85.82	94.75
		CO3	98.58	84.63	94.40

		CO1	78.72	82.74	79.93
		CO2	74.47	82.74	76.95
U14EC601	Digital Image Processing	CO3	68.79	83.69	73.26
		CO4	92.20	84.87	90.00
		CO5	92.20	83.45	89.57
		CO1	59.57	85.11	67.23
		CO2	66.67	85.58	72.34
U14EC602	Digital communication	CO3	74.47	85.58	77.80
		CO4	75.89	82.98	78.01
		CO5	75.89	86.05	78.94
		CO1	69.50	86.05	74.47
		CO2	72.34	83.45	75.67
U14EC603	Antenna and wave propagation	CO3	74.47	84.16	77.38
	, , ,	CO4	78.72	82.74	79.93
		CO5	78.72	83.45	80.14
		CO1	78.01	86.05	80.43
		CO2	67.38	83.69	72.27
U14EC604	VLSI design	CO3	61.70	85.58	68.87
	•	CO4	78.72	83.69	80.21
		CO5	78.72	86.05	80.92
		CO1	58.87	85.34	66.81
		CO2	59.57	86.29	67.59
U14EC605	Micro controller and RISC architecture	CO3	68.79	83.22	73.12
		CO4	85.11	85.82	85.32
		CO5	85.11	85.11	85.11
		CO1	67.38	86.29	73.05
		CO2	66.67	84.63	72.06
U14EC606	Medical instrumentation	CO3	71.63	84.63	75.53
		CO4	88.65	83.69	87.16
		CO5	88.65	85.58	87.73
		CO1	88.65	83.69	87.16
		CO2	88.65	86.29	87.94
U14GE601	Personality and Career enhancement - iv	CO3	94.33	86.29	91.91
		CO4	69.50	85.58	74.33
		CO5	69.50	84.16	73.90
	On the state of th	CO1	91.49	82.98	88.94
U14EC607	Communication laboratory (Analog, Digital and RF)	CO2	94.33	85.34	91.63
	,	CO3	93.62	86.05	91.35
		CO1	100	84.16	95.25
U14EC609	Digital image processing laboratory	CO2	100	83.69	95.11
		CO3	100	86.29	95.89
U14EC608	VLSI laboratory	CO1	99	83.45	94.34
3142000	v Lot laboratory	CO2	100	83.22	94.96

		CO3	100	86.05	95.82
		CO1	85.82	84.16	85.32
U14EC610	Mini project	CO2	85.82	82.74	84.89
		CO3	95.74	86.05	92.84
		CO1	73.76	95.68	80.34
		CO2	76.60	91.61	81.10
U14EC701	Wireless networks	CO3	80.14	89.69	83.01
		CO4	78.01	81.06	78.93
		CO5	78.01	78.42	78.14
		CO1	73.05	95.92	79.91
		CO2	77.30	93.76	82.24
U14EC702	Optical fiber communication	CO3	78.72	88.73	81.73
		CO4	84.40	76.02	81.88
		CO5	84.40	75.54	81.74
		CO1	81.56	92.75	84.92
		CO2	82.98	91.55	85.55
U14EC703	Microwave engineering	CO3	89.36	89.86	89.51
		CO4	90.07	79.95	87.04
		CO5	90.07	76.09	85.88
		CO1	70.40	93.55	77.34
		CO2	73.60	90.86	78.78
U14EC912	Computer hardware and interfacing	CO3	72.80	87.90	77.33
		CO4	84.80	77.96	82.75
		CO5	84.80	77.15	82.51
		CO1	73.91	95.45	80.38
		CO2	78.26	95.45	83.42
U14EC920	Elective Nano electronics	CO3	82.61	92.42	85.55
		CO4	91.30	81.82	88.46
		CO5	91.30	74.24	86.19
		CO1	74.63	93.94	80.42
		CO2	80.60	90.91	83.69
U14EC921	Elective embedded and real time system	CO3	89.55	88.38	89.20
		CO4	73.88	79.55	75.58
		CO5	73.88	77.53	74.97
		CO1	73.76	98.32	81.13
		CO2	74.47	96.88	81.19
U14GE701	Professional ethics	CO3	75.18	91.13	79.96
		CO4	68.79	77.46	71.39
		CO5	68.79	75.06	70.67
		CO1	97.16	93.05	95.93
U14EC706	Project phase I	CO2	97.16	89.45	94.85
		CO3	97.16	89.21	94.78
U14EC704	Optical and microwave lab	CO1	98.58	92.81	96.85

		CO2	99.29	92.81	97.35
		CO3	98.58	89.45	95.84
		CO1	99.29	92.81	97.35
U14EC705	Electronics design lab	CO2	99.29	91.61	96.99
		CO3	99.29	88.73	96.12
		CO1	52.52	99.25	66.54
		CO2	60.43	98.51	71.85
U14EC801	Cellular and Mobile Communication	CO3	62.59	89.30	70.60
		CO4	64.03	77.44	68.05
		CO5	64.03	75.69	67.53
		CO1	70.50	94.78	77.79
		CO2	75.54	92.54	80.64
U14EC802	Disaster Management	CO3	82.01	88.56	83.98
		CO4	84.89	78.36	82.93
		CO5	84.89	77.61	82.71
		CO1	56.10	93.00	67.17
		CO2	65.04	92.72	73.34
U14EC922	Satellite Communication	CO3	68.29	89.64	74.70
		CO4	69.92	79.27	72.72
		CO5	69.92	77.03	72.05
		CO1	88.06	92.31	89.33
		CO2	89.55	90.26	89.76
U14EC925	Telecommunication and Switching Network	CO3	82.09	87.18	83.62
		CO4	88.06	78.46	85.18
		CO5	88.06	73.85	83.80
		CO1	55.68	96.03	67.79
		CO2	65.91	92.46	73.87
U14EC926	Television and Video Processing	CO3	73.86	88.89	78.37
		CO4	82.95	80.16	82.12
		CO5	82.95	80.16	82.12
		CO1	100.00	93.03	97.91
U14EC803	Project Phase II	CO2	100.00	93.03	97.91
		CO3	100.00	92.29	97.69

3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

3.3.1.Describe assessment tools and processes used for measuring the attainment of each Program Outcome and

Program Specific Outcomes (10)

Direct Assessment:

PO Assessment Tools are categorized into direct and indirect methods to assess the program outcomes and program Specific outcomes.

Continuous internal evaluation, semester end examinations, assignments and seminars are used for CO calculation. Rubric values calculated for individual course are formulated and summed for assessing the POs. The weighted average of the POs for all the courses is calculated.

Indirect Assessment:

- ❖ The exit survey is a questionnaire prepared by faculty member and answered by every individual student about the program after the completion of program. This is collected from the graduating students of that year.
- The recruiters survey is obtained from the recruiters of the department during placement drives.

The final PO attainment is sum of 70% of the direct assessment, 20% of exit survey and 10% of recruiter survey.

3.3.2. Provide results of evaluation of each PO & PSO (65)

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course PO&PSO matrices as indicated).

PO Attainment for 2014-18 Batch

COURSE CODE	COURSE TITLE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
U14ENG101	TECHNICAL ENGLISH – I	0.00	0.00	0.00	0.00	95.06	95.06	95.06	95.06	95.06	95.06	95.06	95.06	95.06	95.06
U14MAT102	MULTIVARIABLE CALCULUS AND MATRICES	83.79	83.79	83.79	83.79	83.79	83.79	0.00	0.00	0.00	0.00	83.79	83.79	83.79	83.79
U14PHY103	ENGINEERING PHYSICS	89.28	89.28	89.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.28	89.28	89.28
U14CHE104	ENGINEERING CHEMISTRY	88.24	88.24	88.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.24	88.24	88.24
U14FOC105	FUNDAMENTALS OF COMPUTING SYSTEMS	81.28	0.00	81.28	81.28	81.28	81.28	0.00	0.00	81.28	0.00	81.28	81.28	81.28	81.28
U14BEE106	BASIC ELECTRICAL & ELECTRONICS ENGINEERING	90.53	90.53	90.53	90.53	0.00	0.00	0.00	0.00	90.53	0.00	90.53	90.53	90.53	90.53
U14PCL107	PHYSICS & CHEMISTRY LABORATORY-1	92.34	0.00	0.00	0.00	0.00	0.00	92.34	0.00	92.34	0.00	0.00	92.34	92.34	92.34
U14CPL108	COMPUTER PRACTICES LABORATORY	90.57	90.57	90.57	90.57	90.57	90.57	0.00	0.00	90.57	0.00	0.00	90.57	90.57	90.57
U14EPL109	2 ENGINEERING PRACTICES LABORATORY	98.23	98.23	98.23	98.23	0.00	0.00	0.00	0.00	98.23	0.00	98.23	98.23	98.23	98.23
U14ENG201	TECHNICAL ENGLISH – II	0.00	0.00	0.00	0.00	92.21	92.21	92.21	92.21	92.21	92.21	92.21	92.21	92.21	92.21
U14MAT202	VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND COMPLEX ANALYSIS	83.66	83.66	83.66	83.66	83.66	83.66	0.00	0.00	0.00	0.00	83.66	83.66	83.66	83.66
U14PHY203	MATERIAL SCIENCE	91.56	91.56	91.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.56	91.56	91.56
U14CHE205 A	CHEMISTRY FOR ELECTRICAL AND ELECTRONICS ENGINEERS	77.15	77.15	77.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.15	77.15	77.15

U14CPR206	PROGRAMMING IN C	73.62	73.62	73.62	73.62	73.62	73.62	0.00	0.00	73.62	0.00	0.00	73.62	73.62	73.62
U14EGR207	ENGINEERING GRAPHICS	86.82	0.00	86.82	0.00	86.82	86.82	0.00	0.00	0.00	0.00	86.82	86.82	86.82	86.82
U14PCL208	PHYSICS AND CHEMISTRY LABORATORY - II	93.96	93.96	93.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.96	93.96	93.96
U14CPL209	C PROGRAMMING LABORATORY	91.57	91.57	91.57	91.57	91.57	91.57	0.00	0.00	91.57	0.00	0.00	91.57	91.57	91.57
U14BEEL210	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LABORATORY	91.91	91.91	91.91	91.91	0.00	0.00	0.00	0.00	91.91	0.00	91.91	91.91	91.91	91.91
U14GE301A	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	82.05	82.05	82.36	82.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.05	82.05	82.05
U14EC302	ELECTRON DEVICES AND CIRCUITS	89.66	89.66	89.66	89.66	89.66	89.66	0.00	0.00	89.66	89.66	89.66	89.66	89.66	89.66
U14EE310	ELECTRICAL ENGINEERING	89.22	89.25	89.22	89.22	89.22	89.22	89.22	89.22	0.00	89.22	89.22	89.22	89.22	89.22
U14EC303	DIGITAL ELECTRONICS	89.51	89.51	89.51	89.51	89.42	89.51	0.00	0.00	0.00	90.29	89.51	89.51	89.51	89.51
U14EC304	SIGNALS AND SYSTEMS	85.71	85.71	85.71	85.71	85.71	0.00	0.00	0.00	0.00	0.00	85.71	85.71	85.71	85.71
U14CHE304	ENVIRONMENTAL SCIENCE	0.00	0.00	93.20	93.20	92.88	93.20	93.20	93.20	93.20	0.00	93.20	93.20	93.20	93.20
U14GE302	PERSONALITY AND CAREER ENHANCEMENT - I	0.00	0.00	0.00	89.04	0.00	89.10	0.00	0.00	89.08	89.04	89.04	89.04	89.04	89.04
U14EC305	ELECTRONIC CIRCUITS LABORATORY	94.25	94.25	94.25	94.25	94.25	0.00	0.00	0.00	94.25	0.00	94.25	94.25	94.25	94.25
U14EC306	DIGITAL ELECTRONICS LABORATORY	94.29	94.29	94.29	94.29	94.29	0.00	0.00	0.00	94.29	0.00	94.29	94.29	94.29	94.29
U14GE303	COMMUNICATION SKILLS LABORATORY	94.58	94.93	94.93	0.00	95.14	94.95	94.88	94.88	94.88	94.88	94.88	94.92	0.00	0.00
U14MAT401 C	PROBABILITY AND RANDOM PROCESSES	76.40	76.40	0.00	76.40	0.00	76.40	0.00	0.00	0.00	0.00	76.40	76.40	76.40	76.40
U14EC401	ELECTROMAGNETIC FIELD	87.02	87.02	87.02	87.02	87.02	87.02	0.00	0.00	0.00	0.00	87.02	87.02	87.02	87.02
U14EC402	ELECTRONIC CIRCUITS	89.74	89.74	89.92	89.74	89.74	89.74	0.00	0.00	0.00	0.00	89.74	89.74	89.74	89.74

U14EC403	LINEAR INTEGRATED	91.11	91.11	91.13	91.11	91.11	91.11	0.00	0.00	0.00	0.00	91.11	91.11	91.11	91.11
	CIRCUITS											- '			
U14EE407	CONTROL SYSTEMS	81.77	81.77	81.76	81.77	81.77	81.77	0.00	0.00	0.00	0.00	81.77	81.77	81.77	81.77
U14GE402	PERSONALITY AND CAREER ENHANCEMENT - II	0.00	0.00	90.62	0.00	0.00	0.00	0.00	90.62	90.62	90.62	90.62	0.00	90.62	90.62
U14EC404	MEASUREMENTS AND INSTRUMENTATION	89.42	89.42	89.58	89.42	89.42	89.42	89.42	0.00	0.00	0.00	89.42	89.42	89.42	89.42
U14EC405	LINEAR INTEGRATED & CIRCUITS LABORATORY	94.89	94.89	94.89	94.89	0.00	0.00	0.00	0.00	94.89	94.89	94.89	94.89	94.89	94.89
U14EC406	ELECTRONIC CIRCUITS AND SIMULATION LABORATORY	94.85	94.85	94.85	94.85	95.04	0.00	0.00	0.00	94.85	94.85	94.85	94.85	94.85	94.85
U14MAT501 B	NUMERICAL METHODS	80.45	80.45	80.45	80.45	80.45	80.45	0.00	0.00	0.00	0.00	80.45	80.45	80.45	80.45
U14EC501	ANALOG COMMUNICATION SYSTEMS	73.82	73.82	73.82	74.09	73.82	73.82	0.00	0.00	0.00	0.00	73.82	73.82	73.82	73.82
U14EC502	DIGITAL SIGNAL PROCESSING	76.47	75.47	75.29	75.47	76.38	76.47	0.00	0.00	0.00	0.00	76.47	76.47	76.47	76.47
U14EC503	TRANSMISSION LINES AND WAVEGUIDES	64.20	64.20	64.88	64.20	65.16	64.20	0.00	0.00	0.00	0.00	64.20	64.20	64.20	64.20
U14EC504	MICROPROCESSOR AND ITS APPLICATION	84.75	84.75	84.75	84.75	84.75	84.75	84.75	0.00	0.00	0.00	84.75	84.75	84.75	84.75
U14EC505	COMPUTER NETWORKS	72.89	72.89	72.89	72.89	72.89	72.89	0.00	0.00	0.00	0.00	72.89	72.89	72.89	72.89
U14EC508	COMPUTER NETWORKS LAB	93.64	93.64	93.64	93.64	93.64	0.00	93.64	0.00	93.64	0.00	0.00	93.64	93.64	93.64
U14EC507	DIGITAL SIGNAL PROCESSING LAB	95.44	95.44	95.44	95.44	95.44	95.44	0.00	0.00	0.00	95.44	95.44	95.44	95.44	95.44
U14EC506	MICPROCESSOR LAB	94.56	94.56	94.56	94.56	94.56	94.56	0.00	0.00	0.00	94.56	94.56	94.56	94.56	94.56
U15EC501	PERSONALITY AND CARRIER ENHANCEMENT	0.00	0.00	69.82	0.00	0.00	0.00	0.00	69.82	69.82	69.82	69.82	0.00	69.82	69.82
U14EC601	DIGITAL IMAGE PROCESSING	81.94	81.94	81.94	81.94	81.94	0.00	0.00	0.00	0.00	81.94	81.94	81.94	81.94	81.94

U14EC602	DIGITAL COMMUNICATION	74.87	74.87	74.87	74.87	74.87	0.00	0.00	0.00	0.00	74.87	74.87	74.87	74.87	74.87
U14EC603	ANTENNA AND WAVE PROPAGATION	77.52	76.83	77.52	77.52	77.52	77.52	0.00	0.00	0.00	77.52	77.52	77.52	77.52	77.52
U14EC604-	VLSI DESIGN	76.54	76.54	76.54	76.54	76.54	76.54	0.00	0.00	0.00	76.54	76.54	76.54	76.54	76.54
U14EC605-	MICRO CONTROLLER AND RISC ARCHITECTURE	75.59	77.78	75.59	77.78	75.59	75.59	0.00	0.00	0.00	75.59	75.59	75.59	75.59	75.59
U14EC606	MEDICAL INSTRUMENTATION	79.11	0.00	0.00	0.00	79.11	79.11	0.00	0.00	0.00	79.11	79.11	79.11	79.11	79.11
U14EC607	COMMUNICATION LABORATORY (ANALOG, DIGITAL AND RF)	90.64	90.64	90.64	90.64	90.64	0.00	0.00	0.00	90.64	0.00	90.64	90.64	90.64	90.64
U14EC609	DIGITAL IMAGE PROCESSING LABORATORY	95.41	95.41	95.41	95.41	95.41	0.00	0.00	0.00	95.41	0.00	95.41	95.41	95.41	95.41
U14EC608	VLSI LABORATORY	95.04	95.04	95.04	95.04	95.04	0.00	0.00	0.00	95.04	0.00	95.04	95.04	95.04	95.04
U14EC610	MINI PROJECT	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68
U14GE601	PERSONALITY AND CAREER ENHANCEMENT - IV	0.00	0.00	83.05	0.00	0.00	0.00	0.00	83.05	83.05	83.05	83.05	0.00	83.05	83.05
U14EC701	WIRELESS NETWORKS	73.99	73.99	73.99	73.99	73.99	0.00	0.00	0.00	0.00	73.99	73.99	73.99	73.99	73.99
U14EC702	OPTICAL FIBER COMMUNICATION	76.66	75.97	76.66	76.66	76.66	76.66	0.00	0.00	0.00	76.66	76.66	76.66	76.66	76.66
U14EC703	MICROWAVE ENGINEERING	75.67	75.67	75.67	75.67	75.67	75.67	0.00	0.00	0.00	75.67	75.67	75.67	75.67	75.67
U14EC912	COMPUTER HARDWARE AND INTERFACING	78.23	79.75	78.23	79.75	78.23	78.23	0.00	0.00	0.00	78.23	78.23	78.23	78.23	78.23
U14EC920	ELECTIVE NANO ELECTRONICS	78.23	0.00	0.00	0.00	78.23	78.23	0.00	0.00	0.00	78.23	78.23	78.23	78.23	78.23
U14EC921	ELECTIVE EMBEDDED AND REAL TIME SYSTEM	90.64	90.64	90.64	90.64	90.64	0.00	0.00	0.00	90.64	0.00	90.64	90.64	90.64	90.64
U14GE701	PROFESSIONAL ETHICS	95.41	95.41	95.41	95.41	95.41	0.00	0.00	0.00	95.41	0.00	95.41	95.41	95.41	95.41
U14EC706	PROJECT PHASE I	95.04	95.04	95.04	95.04	95.04	0.00	0.00	0.00	95.04	0.00	95.04	95.04	95.04	95.04

U14EC704	OPTICAL AND MICROWAVE LAB	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68	87.68
U14EC705	ELECTRONICS DESIGN LAB	0.00	0.00	83.05	0.00	0.00	0.00	0.00	83.05	83.05	83.05	83.05	0.00	83.05	83.05
U14EC801	CELLULAR AND MOBILE COMMUNICATION	68.92	71.23	69.07	69.51	68.92	68.92	0.00	0.00	0.00	68.68	68.92	68.92	68.92	68.92
U14EC802	DISASTER MANAGEMENT	81.61	81.61	0.00	0.00	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61
U14EC922	SATELLITE COMMUNICATION	72.00	72.00	74.02	72.31	73.12	72.00	0.00	0.00	0.00	72.00	72.00	72.00	72.00	72.00
U14EC925	TELECOMMUNICATION AND SWITCHING NETWORK	86.34	84.20	86.34	84.20	86.34	86.34	0.00	0.00	0.00	86.34	86.34	86.34	86.34	86.34

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Direct Assessment	83.73	83.49	84.62	83.57	82.18	71.84	73.39	73.72	90.42	78.06	85.79	83.85	84.28	85.22
70% of Direct assessment	58.61	58.44	59.23	58.50	57.53	50.29	51.37	51.60	63.29	54.64	60.05	58.70	59.00	59.65
20% of Exit survey	17.23	15.78	16.86	15.53	16.11	17.58	16.68	17.15	16.58	17.08	16.58	17.05	16.22	16.69
10% of Recruiters survey	9.385	8.308	8.615	7.462	8.308	9.308	9.305	9.23	7.923	8.538	7.692	7.615	6.23	7.9231
PO Attainment	85.22	82.53	84.71	81.49	81.94	77.18	77.36	77.99	87.79	80.26	84.32	83.36	81.44	84.27

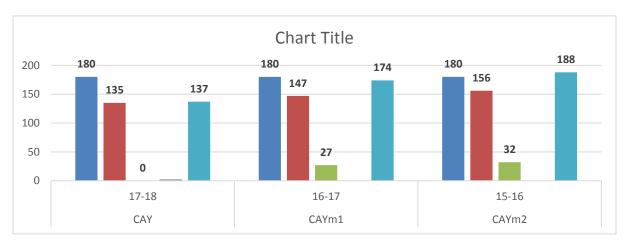
Table *B.3.3.2b*

CRITERION 4

STUDENTS' PERFORMANCE

Item (Information to be provided cumulatively for all	CAY 17-	CAY m1	CAY m2
the shifts with explicit headings, wherever applicable)	18	16- 17	15- 16
Sanctioned intake of the program (N)	180	180	180
Total number of students admitted in first year minus number of students migrated to other programs/institutions, plus no. of students migrated to this program (N1)	135	147	156
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	NA	27	32
Separate division students, if applicable (N3)	2	-	-
Total number of students admitted in the Program (N1 + N2 + N3)	137	174	188

Table B.4a



CAY - Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1 LYG - Last Year Graduate minus 1

LYGm1 - Last Year Graduate minus 1

LYGm2 - Last Year Graduate minus 2

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)					
		I Year	II Year	III Year	IV Year		
CAY (17-18)	135+0+2(137)						
CAYm1 (16-17)	147+27+0 (174)	84					
CAYm2 (15-16)	156+32+0 (188)	133	133				
CAYm3 (14-15)	115+24+2 (141)	94	88	79			
CAYm4 (13-14)	112+26+3 (141)	97	95	92	90		
CAYm5 (LYG) (12-13)	122+24+5(151)	95	98	91	91		
CAYm6 (LYGm1) (11-12)	121+23+14(158)	107	99	95	88		

Table B.4b

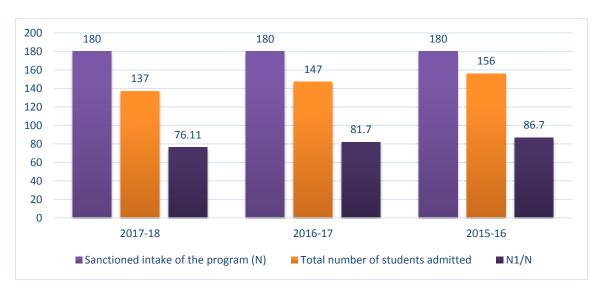
Year of entry	N1+N2+N3 (As define d above)	Number of students who have successfully graduated (Students with backlog in stipulated period of study)					
		I Year	II Year	III Year	IV Year		
CAY (17-18)	135+0+2(137)						
CAY m1 (16-17)	147+27+0 (174)	18					
CAYm2 (15-16)	156+32+0 (188)	16	18				
CAYm3 (14-15)	115+24+2 (141)	21	16	37			
CAYm4 (13-14)	112+26+3 (141)	14	31	34	28		
CAYm5 (LYG) (12-13)	122+24+5(151)	31	47	54	54		
CAYm6 (LYGm1) (11-12)	121+23+14(158)	10	31	33	38		

Table B.4c

4.1. Enrolment Ratio (20)

Enrolment Ratio = N1/N

	2017-18	2016-17	2015-16
Sanctioned intake of the program (N)	180	180	180
Total number of students admitted in first year minus number of students migrated to other programs / institutions, plus no. of students migrated to this program (N1)	137	147	156
N1/N	76.11	81.7	86.7
Average		81.50	



Note: Medical and Paramedical counseling is usually scheduled after Engineering counseling, so some students admitted through single window systems migrated to those courses.

Item (Students enrolled at the First Year Level on average basis during the last three years starting from current academic year)				
>=90% students enrolled	20			
>=80% students enrolled	18			
>=70% students enrolled	16			
>=60% students enrolled	14			
Otherwise	0			

Table B.4.1

4.2. Success Rate in the stipulated period of the program (20)

4.2.1Success rate without backlogs in any semester/year of study (15)

SI= (Number of students who have graduated from the program without backlog)/(Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = Mean of Success Index (SI) for past three batches Success rate without backlogs in any semester/year of study = $15 \times \text{Average SI}$

Item	Latest Year of Graduation, LYG 2017	Latest Year of Graduation, Minus1 LYGm1 2016	Latest Year of Graduation Minus 2 , LYGm2 2015
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	141	151	158
Number of students who have graduated without backlogs in the stipulated period	00	91	88
Success Index (SI)	0.638	0.603	0.557
		Average SI	0.599
Success rate without back	8.99		

Table B.4.2.1

4.2.2. Success rate with backlog in stipulated period of study (5)

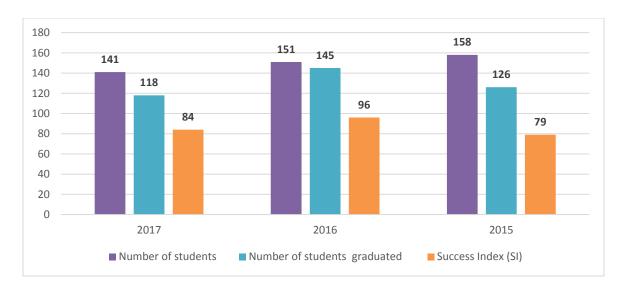
SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = mean of Success Index (SI) for past three batches

Success rate = $5 \times Average SI$

	Latest Year of	Latest Year	Latest Y	ear of	
Item	Graduation,	of Graduation,	Gradua	tion	
	LYG	LYGm1	minus 1,	LYGm1	
	2017	2016	201	5	
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	141	151	158		
Number of students who have graduated with backlogs in the stipulated period	118	145	126		
Success Index (SI)	0.84	0.96	0.797	7	
Average SI Success rate without backlogs in any semester/year of study =					
5 × Average SI					
Table B.4.2.2					

Table B.4.2.2



Note: If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3. Academic Performance in Second Year (10)

Academic Performance = Average API (Academic Performance Index), where $\mathbf{API} = ((\text{Mean of 2}^{\text{nd}} \text{ Year Grade Point Average of all successful Students on a 10 point scale}) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)$

Successful students are those who are permitted to proceed to the Third year.

Academic	CAYm1	CAYm2	CAYm3	
Performance	(16-17)	(15-16)	(14-15)	
Mean of CGPA or Mean Percentage of all successful students (X)	8.23	8.37	8.36	
Total no. of successful students (Y)	188	142	141	
Total no. of students appeared in the examination (Z)	188	142	141	
$API = X^* (Y/Z)$	8.23	8.37	8.36	
Average API = $(AP1 + AP2 + AP3)/3$		8.32		

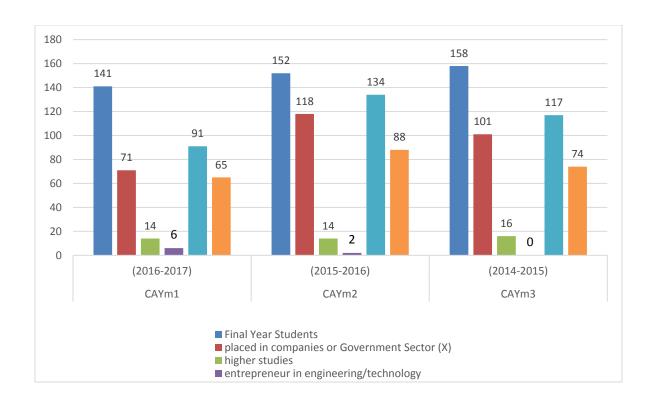
Table B.4.3

4.4. Placement, Higher Studies and Entrepreneurship (30)

Assessment Points = $30 \times \text{average placement}$

Item	CAYm1 (2016-	CAYm2 (2015-	CAYm3 (2014-
Item	2017)	2016)	2015)
Total No. of Final Year Students	141	152	158
No. of Students placed in companies or	71	118	101
Government Sector (X)			
No. of Students admitted to higher studies			
with valid qualifying scores(GATE or	14	14	16
equivalent State or National Level Tests,	17		
GRE, GMAT etc) (Y)			
No. of students turned entrepreneur in	6	2	_
engineering/technology (Z)	O		
X + Y + Z	91	134	117
Placement Index : (X + Y + Z) / N	0.65	0.88	0.74
Average placement = (P1+P2+P3)/3		0.76	
Assessment Points = 30 x average placement	22.8		

Table B.4.4



4.5 Professional Activities (20)

Provide data for the past 3 years - CAY, CAYm1 and CAYm2

4.5.1 Professional societies/chapters and organizing engineering events (5)

Professional Activities

S.No	Professional Societies	
1.	Institution of Electronics and Telecommunication Engineers (IETE)	
2.	Indian Society for technical education (ISTE)	
3.	Institute of Electrical and Electronics Engineers (IEEE)	

YEAR	Professional Society/ Chapters/ Organisation	DATE	EVENT & TITLE	RESOURCE PERSON	No. of students attended
	Guest Lecture	16.08.2017	"IoT and its future perspectives for smart cities in India"	Dr.S.Arumuga Perumal Chairman,IET, Thiruvanathapuram.	150
	Guest Lecture	31.08.2017	Ground- breaking Project dreams for enhancing Knowledge of Budding Engineers "	Mr.Harsha Prasanna.K. PCEO, SALIEABS Electronic Engineers LLP, Salem.	140
	Guest Lecture	23.09.2017	"Microwave Integrated Circuits "	Dr.T.Shanmuganathan, Professor, Pondicherry.	142
2017-18	Guest Lecture	09.09.2017	"Industry needs from freshers"	Ms.S.Preethika, Associate Software Engineer, Robert Bosch, Coimbatore.	145
	Guest Lecture	26.09.2017	"Do your engineering rather studying"	Mr.Sundaramoorthy, Sunshive Electronic Solutions, Coimbatore.	145
	Seminar	25.09.2017	Mentor Graphics caliber D2S	Dr.N.Sasirekha, AP/ECE,SCT. Mr.P.Vivek Karthik, AP/ECE, SCT.	40
	FDP	19.07.2017	RF Signal Generation and Spectral Measurements	Agilent Technologies, Chennai	30
	Continuing education	05.06.2017 to 10.06.2017	PCB design & fabrication	Mr.S.Sree Southry, AP/ECE SCT. Mr.A.Ayub Khan,	25

& AP/ECE		
18.09.2017		
to		
03.10.2017		
Digital Image Mr.P.M.Dinesh, AP/ECE		
Continuing processing SCT.		
education 06.06.2017 using open CV Mr.R.Anand,	40	
and Python AP/ECE SCT.		
Basic C		
programming		
Mr.P.M.Dinesh, AP/ECE in Continuous		
Continuing 11.09.2017 Time & SCT.	40	
education Mr.R.Anand, AP/ECE Discrete time		
Signal using		
GNURADIO		
Mr.Dhruv,MD, Asia		
Pacific.		
Guest Lecture 29.12.2017 "Bionics" Mr.Rashmikant	180	
Joshi,MD,Chennai.		
Chennai.Festo India.		
13.12.2017 Engineering Mr.Esakki,		
Training – applications National Instruments,	40	
programme 29.12.2017 using LabVIEW Bangalore.		
Visual Dr.S.Md.Mansoor		
Recognition – Roomi, Professor,		
Guest Lecture 09.01.2018 Oppurtunities Thiagarajar College of	142	
to improve our		
lives Engineering, Madurai.		
Fundamentals Dr. K. Malathi,		
Guest Lecture 02.02.2018 of Antenna ASP/ECE,	42	
Guest Lecture 02.02.2016 Of Africania Anna University, CEG Design	74	
Campus, Chennai.		
Dr.S.R.R.Senthil Kumar,		
Technical 08.02.2018 Electroblitz Principal,	400	
expo 08.02.2018 Electrobilitz Sona College of	400	
Technology.		
Mr.Aswin Gowtham,		
Guest lecture 13.02.2018 Cyber security Senior Consultant,	140	

				Office, Chennai.	
	Workshop	28.02.2018 & 01.03.2018	Hands on Training on Industry ready Engineering	Mr.Sundaramoorthy, Sunshive Electronic Solutions, Coimbatore.	57
	National level technical symposium	02.03.2018	Fractals	Prof.K.Jayaraman, Director, United Electronics, Bangalore.	400
	Guest Lecture	21.03.2018	5 Traits to be a successful professional	Mr.K.Shiva, Team Lead, Accenture,Bangalore.	145
	National Conference	23.03.2018	Emerging Trends in Signal & Image Processing, Communicatio n, VLSI Design and Nano Technology	Er.Tata Sudhakar, Group Head - Ocean Electronics Group, Ministry of earth sciences, Govt of India.	60
	Workshop	19.05.2018 to 27.05.2018	Python Programming	Mr.Das Sharma, Knowvic Solutions, Bangalore.	107
	IETE	11.08.16 & 12.08.16	Workshop on "LabVIEW for Machine Learning of Images"	National Instruments, Bangalore.	30
2016- 2017	IETE	12.09. 16	Guest Lecture - Electromagneti cs in Rehabilitation& Science of Yoga	Dr. T.M. Srinivasan, Professor Yoga & Physical Sciences, S-VYASA university,	146
	UNECS	21.09.16	Guest Lecture - Challenges And opportunities: Core	Dr. Cyril prasanna raj Prof/Dean, Dept.of CSE. MS Engineering College Bangalore.	146

			Companies, Higher Education And Entrepreneursh		
			ip		
	UNECS	24.10. 16	Guest Lecture - CHAOS functions on Cryptography	Dr.B.R.Sujatha Professor &Head, Dept. Of ECE Malnad College of Engineering, Hasan, Karnataka.	146
	IETE	22.03.17	Symposium - Fractals'17	Dr.G.K.D.Prasanna Venkatesan, Dean - R&D, S.N.S College of Technology,Coimbatore.	440
	UNECS	07.07.2015 to 10.07.2015	Ideation Camp - INTEL Galileo Board	Mr. Raghav Ankur , National Manager- Technical, Technical trainer Ms. Yamini Shali FICE.	70
2015- 2016	IETE	11.08.15	Guest Lecture - Entrepreneursh ip and Present Scenario in Industries	Mr.R.Devaraj, CEO,Real Power Vision, Bangalore.	440
2010	UNECS	11.08.15	Guest Lecture - Job Oppurtunities for Engineering Students	Mr.Gangadharan. C Head-Technical Support Group, Real Power Vision, Bangalore.	142
	UNECS	13.08.15 & 14.08.15	Workshop - Management Ethics through Games	Mr.S.Aravind, Divisional Manager, The JOB GLAD Division, Synergy Life – Group of Companies	65
	IETE	13.08.2015	Workshop on	National Instruments,	30

		Labview and its applications	Bangalore.	
UNECS	05.09.15	Guest Lecture - Microstrip Lines	Dr.T.Shanmuganathan, Assistant Professor, Pondicherry University, Pondicherry.	146
UNECS	10.09.15	Workshop - Web Bench	Mr.Sivaraman, Agilent Technologies, Bangalore.	146
UNECS	22.09.15	_	Technical symposium - ectroblitz'16	
IETE	4.2.16 to 6.2. 16	Workshop - IoT	Mr.T.N.Raj Vignesh Mr.Harsha Prasanna Salieabs Electronics Engineers LLP,Salem.	40
UNECS	06.02.16	Guest Lecture - Expectations of Core Industries from today's Graduates	Mr.Vignesh Nair, Livewire, A Division of CADD Center, Chennai.	146
IETE	06.02.16	Do your Engineering rather than	Mr.Sundaramoorthy, MD, Sunshive Electronics Solutions, Coimbatore.	185
ISTE	13.02.16	Guest Lecture - Design and Fabrication of PCB	Mr.Raj Sekar, Rana Power Solutions, Bangalore.	185
UNECS	20.02.16	Guest Lecture - Expectation of Corporate from Fresher's	Mr.K.Vinoth Kumar Bosch, Coimbatore. Mr.S.Sundar Raj, CTS, Chennai	142
IETE	22.03.16	Sympos	ium - Fractals'16	





4.5.2. Publication of technical magazines, newsletters, etc. (5)

A newsletter "Electro Nova" is prepared and published quarterly by the students of the Electronics and Communication Engineering. The newsletter focuses on the current happenings (trends) in the Core / IT Industry, placements and training information-and higher education opportunities.

An annual magazine is published every year by the department which contains technical / non-technical articles, literature and art. This provides an opportunity for the students to explore and understand the skill of writing and publishing.

Publication Details:

S.No	Name of the Newsletter	Editorial Members	Periodicity	Year of publishing
		Dr.R.S.Sabeenian, Prof & Head		
	Transforms &	Student Members:		
1.	Algorithms for SIP	Karthik.D	Annual	2017 -18
		Ajith Kumar		
		Dr.R.S.Sabeenian, Prof & Head		
		Dr.K.R.Kavitha,Asso Professor		
2.	Microelectronics to	Student members:	Annual	2017 - 18
	Nano electronics	Lingesh Vijay		
		Nithish		
		Dr.R.S.Sabeenian, Prof & Head.		
	EIoT – Embedded	Ms.S.Deepa,Asso Professor		
3.	Systems and	Student members:	Annual	2017 - 18
	Internet of Things	Shriram		
		Ram Prasath		
	World in seconds - Communication	Dr.R.S.Sabeenian, Prof/Head.		
		Dr.R.Vinod Kumar,Professor		
4.		Student members:	Annual	2017 - 18
		R.Dhinesh		
		M.Tharani		
		Dr.R.S.Sabeenian,Prof/Head		
	Transforms &	Dr.K.R.Kavitha, Asso Professor		
5.	Algorithms for SIP	Student Members:	Annual	2016 - 17
	Algorithms for SIF	Akshaya		
		Anandhy		
		Dr.R.S.Sabeenian,Prof/Head		
	Microelectronics to	Dr.S.Jayapoorani,Asst.Professor		
6.	Nanoelectronics	Student Members:	Annual	2016 - 17
	Natioelectionics	Nishanth		
		Ramadass		
	EIoT – Embedded	Dr.R,S.SabeenianProf/Head		
7.	Systems and	Mr.A.Ayub Khan, Asst.Professor	Annual	2016 - 17
	Internet of Things	Student Members:		

		R.K.Siva		
		Narendiran		
		Dr.R.Sabenian,Prof/Head		
		Mr.G.Ravi, Asst. Professor		
8.	World in seconds -	Student Members:	Annual	2016 - 17
	Communication	Sameera Bhargav		
		Sindhu Nisha		
		Dr.K.R.Kashwan,Prof/Head		
	_	Dr.K.R.Kavitha, Asso Professor		
9.	Transforms &	Student Members:	Annual	2015 - 16
	Algorithms for SIP	Akshaya		
		Anandhy		
		Dr.K.R.Kashwan,Prof/Head		
		Dr.S.Jayapoorani,Asst.Professor		
10.	Microelectronics to	Student Members:	Annual	2015 - 16
	Nanoelectronics	Nishanth		
		Ramadass		
		Dr.K.R.Kashwan,Prof/Head		
	EIoT – Embedded	Mr.A.Ayub Khan, Asst.Professor		
11.	Systems and	Student Members:	Annual	2015 - 16
	Internet of Things	R.K.Siva		
		Narendiran		
		Dr.K.R.Kashwan,Prof/Head		
	World in seconds -	Mr.G.Ravi,Asst.Professor		
12.	Communication	Student Members:	Annual	2015 - 16
	Communication	Sameera Bhargav		
		Sindhu Nisha		

4.5.3 Participation in inter-institute events by students of the program of study (10)

Include a Table having those publications, which fetch awards by students in the events/conferences organized by other institutes. Include a tabulated list of all other student publications in a separate annexure.

Co-curricular activities:

Year 2017-18

		Prize/				
S.No	Name	Participatio	Title	Event place	Level	
		n				
1.	K. Jayanthi	Best paper	NCFCSPS'18	Adhiyamaan College	National	
1.	K. Jayanun	award		of Engineering, Hosur	National	
2.	V.V. Ramya	Best paper	NCFCSPS'18	Adhiyamaan College	National	
۷.	v.v. Kailiya	award		of Engineering, Hosur		
3.	A. Janaki	Best paper	NCFCSPS'18	Adhiyamaan College	National	
٥.	A. Jaliaki	award		of Engineering, Hosur		
4.	S. Dhanya	Best paper	NCFCSPS'18	Adhiyamaan College	National	
4.	5. Dilaliya	award		of Engineering, Hosur		
5.	Adithyan T C	III	Roborace	Knowledge institute	National	
٥.	Adithyan.T.S	111	Roborace	of technology, Salem.	ivational	
6.	Bala Murugan.S	III	Roborace	Knowledge institute	National	
	Dala Murugan.5	111	Roborace	of technology, Salem.	ivacional	
7.	Manibarathi	I	Roborace	Knowledge institute	National	
	Maniparatin	1	Roborace	of technology, Salem.	เงสนเอกสเ	
8.	Sarath Kumar.N	I	Roborace	Knowledge institute	National	
	Saratii Kuillai.N	1	Roborace	of technology, Salem.	National	
9.	Dhanalakshmi.P	I	Paper	Knowledge institute	National	
	Dilalialaksiiiii.r	1	presentation	of technology,Salem.	National	
10.	Akshatha.S.N	I	Paper	Knowledge institute	National	
	AKSHAUIA.S.IV		presentation	of technology,Salem.	ivational	
11.	P.Suguna	Participated	Paper	Kongu Engineering	National	
	r.Suyuna	Participated	Presentation	college	ivational	

12.	V.S.Sowmiya	Participated Paper Presentation		Kongunadu college of engineering &	National
			rresemention	technology	
			Paper	Kongunadu college of	
13.	Shruthi	Participated	Presentation	engineering &	National
				technology	
			Paper	Kongunadu college of	
14.	Shrin Sahana	Participated	Presentation	engineering &	National
				technology	
			Cambridge	Sona college of	
15.	Kiran Aditya	B1	English	technology,Salem.	National
			Language		
			Assessment		
			Cambridge	Sona college of	
16.	Kalkeseetharaman P	B1	English	technology,Salem.	National
10.	K	D1	Language		racional
			Assessment		
			Cambridge	Sona college of	
17.	Karthick K	B1	English	technology,Salem.	National
17.	Raremen R	D1	Language		Nacional
			Assessment		
18.	Swathi k	I	Paper	Karpagam College of	National
10.	Swatin K	•	Presentation	technology	Nacional
19.	Srinithi G	I	Paper	Karpagam College of	National
15.	Stilliell G	_	Presentation	technology	Nacional
			National	National institute	
			Symposium	technology, Trichy	
20.	Yogalakshmi R	Participated	(Control and		National
			sensing for		
			robotics)		

Year 2016-17

S.		Prize/	Title of the		
No	Name	Participation	Event	Event place	Level
		_	Multimedia	Excel College	
1.	A.Kowsalya	I	Presentation	of engineering	National
			National		
2.	S.Sabarish	-	Level Conference – Published Journal In IRJET	Mahendra college of engineering	National
3.	K.Shruthi	I	Technical Quiz	Muthayammal college of engineering	National
4.	R.Sindhuja	I	Technical Quiz	Muthayammal college of engineering	National
5.	R.Sindhuja	III	Paper presentation	Sri Krishna college of Engineering and technology	National
6.	R.Sriram	II	State level business plan competition – CII	Narasus Sarathy college of engineering	National
7.	M.Suba Priyadharsini		National level conference – published journal in IRJET	Mahendra college of engineering	National
8.	M.Suba Priyadharsini	II	State level business plan competition – CII	Narasus Sarathy college of engineering	National

			National level			
			conference -	Mahendra		
9.	M.Sudha		published	college of	National	
			journal in	engineering		
			IRJET			
4.0			Circuit	Sona college	.	
10.	D.Iswarya	III	Debugging	of technology	Institute	
11	C Maniula	III	Circuit	Sona college	Institute	
11.	S.Manjula	111	Debugging	of technology	Institute	
12.	S.Priyanka	III	Multimedia	Sona college	Institute	
12.	(13.03.1996)	111	presentation	of technology	Institute	
13.	S.Ramya	III	Multimedia	Sona college	Institute	
15.	3.Ramya	111	presentation	of technology	Institute	
			Paper	Government		
14.	A.Muhammed Husni	III	presentation	college of	National	
			presentation	engineering		
15.	A.Muhammed Husni	II	QUIZ	Sona college	Institute	
			4 0	of technology		
16.	A.Muhammed Husni	II	QUIZ	Sona college	Institute	
			C -	of technology		
			Paper	Adhiyaman		
17.	K.R. Muruganantham	II	presentation	College of	National	
			·	engineering		
			Project	Al ameen		
18.	K. Jayanthi	II	Presentation	College of	National	
				engineering		
4.0	e et 11:		Project	Al ameen		
19.	E.Elakkia	II	Presentation	College of 	National	
				engineering		
20	N. Hamannii :-	т.	Paper	Mahendra Institute of	Notices	
20.	N.Hemapriya	I	presentation	Institue of	National	
				technology Mahendra		
21.	R Harchitha	т	Paper	Manenara Institue of	National	
21.	B. Harshitha	I	presentation	technology	ivaciOnal	
				technology		

				Mahendra		
22.	N.Hemapriya	II	Digitrix	Institue of	National	
				Mahendra		
23.	B. Harshitha	II	Digitrix	Institue of	National	
				technology		
			Paper	Hindustan		
24.	P.Keerthana	I	presentation	college of	National	
			presentation	technology		
			Paper	Hindustan		
25.	D. B. Ramya	I	presentation	college of	National	
			presentation	technology		
26.	Y.Vidhya Lakshmi	III	Group	Sona college	Institute	
20.	T. Vidilya Laksiiiii	111	Discussion	of technology	modicace	
			Paper	Coimbatore		
27.	S. N. Akshatha	II	Presentation	institute of	National	
			rreserreación	technology		
28.	J. Geetha Priya	II	Paper	Sona college	Institute	
20.	or decina i iiya		Presentation	of technology	motitute	
				Kongu		
29.	S.Balamurugan	II	Multimedia	engineering	National	
				college		
				Kongu		
30.	S.Balamurugan	III	Quiz	engineering	National	
				college		
31.	M.Jayavani	II	Paper	Sona college	Institute	
			presentation	of technology	11.0070000	
32.	M.Jayavani	II	Idea	Sona college	Institute	
			Presentation	of technology	21.00.000	
			Paper	Kongu		
33.	B. Kaviya	II	presentation	engineering	National	
			p. 556	college		
				Kongu		
34.	B. Kaviya	III	Quiz	engineering	National	
				college		

1			Poster	Sona college	1	
35.	S. Kowsalya	I			Institute	
			presentation	of technology		
36.	R. Kruthika	I	Poster	Sona college	Institute	
50.	N. Klutlika	1	presentation	of technology	montate	
				Knowledge		
37.	Priyanka . M	II	Quiz	institute of	National	
57.	riiyaiika . M	11	Quiz	technology,	National	
				Salem.		
38.	C Muthunarayanan	I	Ouiz	Sona college	Institute	
36.	S. Muthunarayanan	1	Quiz	of technology	Institute	
39.	J. Sai Pradeep	III	JAM	Sona college	Instituto	
39.	J. Sai Flaueep	111	JAN	of technology	Institute	
40.	J. Sai Pradeep	III	JAM	Sona college	Institute	
40.	3. Sai Fraucep	111	JAM	of technology		
41.	J. Sai Pradeep	II	Quiz	Sona college	Institute	
71.	3. Sai i radeep	11	Quiz	of technology	mstitute	
42.	S. Roshini	II	JAM	Sona college	Institute	
42.	3. ROSHIIII	11	JAM	of technology	Institute	
43.	L.Siddik	II	Quiz	Sona college	Institute	
75.	LiSiddik	11	Quiz	of technology	Institute	
44.	L.Siddik	III	JAM (Pair	Sona college	Institute	
74.	LiSiddik	111	Event)	of technology	Institute	
				Kongu		
45.	V.Surya	II	Multimedia	engineering	National	
				college		
				Kongu		
46.	V.Surya	III	Quiz	engineering	National	
				college		
			l	I	i	

Year: 2015 -16

S.	Name	Prize/	Title	Event	Level
No	Name	Participation	Title	venue	(In/S/N/I)
1.	C.Sai Venkata Vinay	I	Paper	ISTE -	State
	C.Sai Venkata Vinay	1	Presentation	Salem	State
2.	C.Sai Venkata Vinay	I	Design	CADD	State
	Cibai Verikata Villay	-	Contest	Centre	State
3.	Sundareswaran S	II	Design	CADD	State
J.	Sandareswaran S	11	Contest	Centre	State
4.	Sriram R	II	Design	CADD	State
7.	Sindin K	11	Contest	Centre	State
5.	Suba priyadharsini M	II	Design	CADD	State
J.	Saba priyaanarsiii N	11	Contest	Centre	State
6.	Santhiya Sri M	II	Design	CADD	State
0.	Santinya Sir M	11	Contest	Centre	State
7.	Roshini M	II	Design	CADD	State
/.	ROSIIIII 14	11	Contest	Centre	State
8.	Suvadhika P S	II	Design	CADD	National
0.	Savadilika i S		Contest	Centre	Ivacional
9.	Sowndharya C	III	Design	CADD	National
J.	Sownanarya C	111	Contest	Centre	Ivacional
10.	Sudha M	III	Design	CADD	National
10.	Sauria M	111	Contest	Centre	Ivacional
11.	M. Anbarasu	Runner	Robo	IIT,	National
	TI. Aliburusu	Kumei	OCEANA	Madras	Ivacional
12.	S.Arun Prakash	Runner	Robo	IIT,	National
12.	Sir ii dii TTakasii	Raille	OCEANA	Madras	Nacional
13.	A.A.A.Annal	Runner	Robo	IIT,	National
13.	A.A.A.AIIIIdi	Kunner	OCEANA	Madras	Ivacional
14.	Ashok kumar	Runner	Robo	IIT,	National
17.	Jaganth Nivas	Kuillei	OCEANA	Madras	INGLIGITAT



Extra-curricular activities:

2017-18

S. No	Name	Prize/ Participation	Title	Event place	Level
1.	Adithyan.T.S	II	Short Film	Kongu engineering college	National
2.	Bala Murugan.S	II	Short Film	Kongu engineering college	National
3.	Hariharan.G	III	Weight Lifting	Anna University Zonal Tournament	National
4.	Haarne V	Runners	Badmiton	Anna University Zonal Tournament	State
5.	Murugesan M	Participated	Student MR.Salem 2017	Modern Gym	District
6.	Murugesan M	Participated	Junior MR.Salem	Modern gym	State

			2018		
7.	Gayathri K	Donated Blood	Voluntary blood donation service	Tamil Nadu State Blood Transfusion Council	State
8.	Sathish Kumar D	Winner	Division Level Boxing Championsh ip	Iron Hand Boxing Club	State
9.	Sathish Kumar D	Participated	Division Boxing Tournament	Dhrona School of Martial Arts and SDAT	National
10.	Sowmika D K	Participated	National Symposium (Brain -O- Brain)	National institute of technology	National
11.	Soundharya Lakshmi N	Participated	National Symposium (Brain -O- Brain)	National institute of technology	National

2016-17

S.	Name	Prize/	Title of the	Event place	Level
No	Name	Participation	Event	Event place	Level
			National	Kumaraguru college	
			Level	of technology	
1.	S.Bhuvaneshwari	Participated	Equipped		National
1.	3.biidvanesiiwaii	rarticipated	Power		National
			lifting		
			(Junior)		
			Senior	Kumaraguru college	
2.	S.Bhuvaneshwari	Silver Medal	State	of technology	National
۷.	3.Diluvariesiiwari	Silver Medal	Equipped		INGLIOIIGI
			Powerlifting		

			Junior State	JJ College of	
3.	S.Bhuvaneshwari	Silver Medal	Equipped	engineering and	National
			Powerlifting	technology	
			Anna		
			University	Sasurie academy of	
4.	S.Bhuvaneshwari	Silver Medal	Inter	engineering	State
			Zonal(Powe		
			rlifting)		
			Anna		
_	C Dhamas alamai	Duana Madal	University	Sasurie academy of	Ct-t-
5.	S.Bhuvaneshwari	Bronze Medal	Inter	engineering	State
			Zonal(Weig		
			htlifting)	Conn college of	
6.	S.Bhuvaneshwari	Runner	Throw Ball	Sona college of	Institute
				technology	
7.	S.Bhuvaneshwari	C-Certificate	NCC	Sona college of technology	National
				Anna University	
8.	R.Sindhuja	I	Chess	Inter Zonal	State
9.				Sona college of	
9.	R.Sindhuja	I	Chess	technology	Institute
10.				Sona college of	Institute
10.	R.Sindhuja	II	Basket ball	technology	Institute
11.			Drawing	Sona college of	Institute
11.	P.Keerthana	III	Drawing	technology	Institute
12.			Drawing	Sona college of	Institute
12.	P.Keerthana	II	Drawing	technology	motitute
13.			Essay	Sona college of	Institute
15.	D. B. Ramya	I	Writing	technology	Institute
14.			Speech	Sona college of	Institute
17.	Y.Vidhya Lakshmi	II	Competition	technology	111001000
15.			Pecha	Sona college of	Institute
15.	Y.Vidhya Lakshmi	III	Kucha	technology	
16.			Group	Sona college of	Institute
10.	Y.Vidhya Lakshmi	III	Discussion	technology	Institute
			21364331011	teerinology	

17.	Y.Vidhya Lakshmi	I	Oratorical	Sona college of	Institute
	1.Viuliya Laksiiiiii	1	Competition	technology	
18.	T.Monisha	I	Dance	Sona college of	Institute
	1.1401115114	1		technology	
19.	T.Monisha	II	Group	Sona college of	Institute
	1.Momsna	11	Dance	technology	
20.	K. Tharani	II	Group	Sona college of	Institute
	K. Maram	11	Dance	technology	
21.	R.Gowsika	II	Group	Sona college of	Institute
	K.Gowsika	11	Dance	technology	
22.	Sandya.A	II	Group	Sona college of	Institute
	SanayaiA	11	Dance	technology	
23.	T.M.Shanmathi	B Certificate	NCC	Sona college of	Institute
	T.I I. Shariinaciii	D CCI tillicate	NCC	technology	
24.	G.Hariharan	ī	Weight	Gandhi Stadium	State
	Giriai iliaran	-	Lifting		
25.	J. Sai Pradeep	II	Speaking	Sona college of	Institute
	3. Sai i idaecp	11	Event	technology	
26.	S. Roshini	I	Oration	Sona college of	Institute
	3. 1(03)IIIII	1	Competition	technology	

2015-16

S. No	Name	Prize/ Participation	Title	Event Venue	Level
1.	D.Karthikeyan	Participated	Karate	Sona college of technology	Institute
2.	M.Sudhakar	I	Karate	Gandhi Stadium	State

Conference/Journal Publication

S.	Name of the	T'ile - Cile	Conference	Daniel Children
No	Student	Title of the event	/Journal	Paper of title
		ICEAT-2018,		Blood Vessel
		Department of ECE,		Segmentation
1.	D. Karthick	Sri Krishna College of	Conference	using image
		Technology,		Processing
		Coimbatore		Technique
		ICEAT-2018,		Blood Vessel
		Department of ECE,		Segmentation
2.	R. Dhamodharan	Sri Krishna College of	Conference	using image
		Technology,		Processing
		Coimbatore		Technique
		ICEAT-2018,		Blood Vessel
		Department of ECE,		Segmentation
3.	R. Dhanraj	Sri Krishna College of	Conference	using image
		Technology,		Processing
		Coimbatore	oimbatore	
		ICEAT-2018,		Blood Vessel
		Department of ECE,		Segmentation
4.	P. Ajithkumar	Sri Krishna College of	Conference	using image
		Technology,		Processing
		Coimbatore		Technique
				Recognition and
		NCSICVN'18,		classification of
		Department of ECE,		Hand Written
5.	S. Aishwarya	Sona College of	Conference	Tamil
		Technology, Salem		Character from
		reciniology, Jaiem		palm leaves
				Manuscripts
		NCSICVN'18,		Recognition and
		Department of ECE,		classification
6.	R. Aiswarya Harini	Sona College of	Conference	of Hand Written
		Technology, Salem		Tamil Character
				from palm

				leaves
				Manuscripts
				Recognition and
		NCCIOVALLO		classification of
		NCSICVN'18,		Hand Written
7.	G. Devimeenakshi	Department of ECE,	Conference	Tamil
		Sona College of Technology, Salem		Character from
		reciniology, Salem		palm leaves
				Manuscripts
				Recognition and
		NCSICVN'18,		classification of
		Department of ECE,		Hand Written
8.	P. Elakkia	Sona College of	Conference	Tamil Character
		Technology, Salem		from palm
	reciniology, Salem		leaves	
				Manuscripts
		NCSICVN'18,		Advance fire
		Department of ECE,	Conference	detection in
9.	P.S. Anjusree			Video using
				Image
				Processing
		NCSICVN'18,		Advance fire
		Department of ECE,		detection in
10.	K. Archana	Sona College of	Conference	Video using
		Technology, Salem		Image
				Processing
		NCSICVN'18,		Advance fire
		Department of ECE,		detection in
11.	C. Devini	Sona College of	Conference	Video using
		Technology, Salem		Image
		- 7.		Processing
		NCSICVN'18,		Advance fire
12.	S. Divya Bharathy	Department of ECE,	Conference	detection in
	S. Sivya Bilaracity	Sona College of		Video using
		Technology, Salem		Image

				Processing
				Segmentation,
		NCCICVN!10		feature
		NCSICVN'18, Department of ECE,		extraction &
13.	R. Sri Sathya	Sona College of	Conference	classification of
		Technology, Salem		Segmentation, feature extraction & classification of brain tumour through MRI Images Segmentation, feature extraction & classification of brain tumour through MRI Images Segmentation, feature extraction & classification of brain tumour through MRI Images Segmentation, feature extraction & classification of brain tumour through MRI Images Segmentation, feature extraction & classification of brain tumour through MRI Images Garbage Collection and Classification
		recillology, Salem		through MRI
				Images
				Segmentation,
		NCSICVN'18,		feature
		Department of ECE,		extraction &
14.	M. Bharani	Sona College of	Conference	classification of
		Technology, Salem		brain tumour
		reamology, salem		through MRI
				Images
		NCSICVN'18,		Segmentation,
				feature
		Department of ECE,		
15.	S. Chinthamani	Sona College of	Conference	classification of
		Technology, Salem		
		recimology, Salem		through MRI
				Images
				Segmentation,
		NCSICVN'18,		
		Department of ECE,		extraction &
16.	E. Banumathi	Sona College of	Conference	Images Segmentation, feature extraction & classification of brain tumour through MRI Images Segmentation, feature extraction & classification of brain tumour through MRI Images Segmentation, feature extraction & classification of brain tumour through MRI Images Segmentation, feature extraction & classification of brain tumour through MRI Images Classification of brain tumour through MRI Images Garbage Collection and Classification Robot using YOLO
		Technology, Salem		brain tumour
		reamining, raisin		through MRI
				Images
		NCSICVN'18,		
17.	K. Gowrishankaran	Department of ECE,	Conference	Classification
	222	Sona College of		_
		Technology, Salem		
				Architecture

18.	Y. Farhaan Sheriff	NCSICVN'18, Department of ECE, Sona College of Technology, Salem	Conference	Garbage Collection and Classification Robot using YOLO Architecture
19.	R. Hari Deepak	NCSICVN'18, Department of ECE, Sona College of Technology, Salem	Conference	Garbage Collection and Classification Robot using YOLO Architecture
20.	Mazin	NCSICVN'18, Department of ECE, Sona College of Technology, Salem	Conference	Garbage Collection and Classification Robot using YOLO Architecture
21.	G. Aaradhana	NCSICVN'18, Department of ECE, Sona College of Technology, Salem	Conference	Energy Efficiency in wireless sensor networks using Advance Leach Protocol
22.	S. Deepika	NCSICVN'18, Department of ECE, Sona College of Technology, Salem	Conference	Energy Efficiency in wireless sensor networks using Advance Leach Protocol
23.	B. Harshitha	NCSICVN'18, Department of ECE,	Conference	Energy Efficiency in

		Sona College of		wireless sensor
		Technology, Salem		networks using
				Advance Leach
				Protocol
				Energy
		NCSICVN'18,		Efficiency in
24.	N. Hamanniya	Department of ECE,	Conference	wireless sensor
24.	N. Hemapriya	Sona College of	Conterence	networks using
		Technology, Salem		Advance Leach
				Protocol
		NCFCSPS'18,	Conference	Wireless Health
25.	K. Jayanthi	Adhiyamaan College	"Best Paper	Mentoring
		of Engineering, Hosur	award"	System
		NCFCSPS'18,	Conference	Wireless Health
26.	V.V. Ramya	Adhiyamaan College	"Best Paper	Mentoring
		of Engineering, Hosur	award"	System
		NCFCSPS'18,	Conference	Wireless Health
27.	A. Janaki	Adhiyamaan College	"Best Paper	Mentoring
		of Engineering, Hosur	award"	System
		NCFCSPS'18,	Conference	Wireless Health
28.	S. Dhanya	Adhiyamaan College	"Best Paper	Mentoring
		of Engineering, Hosur	award"	System
				Real time GSM
		ICLTSET'18,		based skid
		Karpagam Institute	Conference	cooling LPG
29.	Akanchakumari	Technology,	comerciae	Pipeline
		Coimbatore		Monitoring
		Combatore		System
				Real time GSM
		ICLTSET'18,		based skid
30.	S. Ashwini	Karpagam Institute	Conference	cooling LPG
		Technology,		Pipeline
		Coimbatore		Monitoring
				System

		T		<u> </u>
				Real time GSM
		ICLTSET'18,		based skid
31.	G. Dharshana	Karpagam Institute	Conference	cooling LPG
		Technology,		Pipeline
		Coimbatore		Monitoring
				System
		NCSICVN'18,		Deep sea
32.	E. Elakiya	Department of ECE,	Conference	fisherman patrol
٥٤.	L. Liukiyu	Sona College of	Comercine	system using
		Technology, Salem		Arduino
		NCSICVN'18,		Deep sea
		Department of ECE,		fisherman patrol
33.	P. Ezhilarasi	Sona College of	Conference	system using
				Arduino
		Technology, Salem		
		NCCICVN'19		Deep sea
	R. Gomathi Sri	NCSICVN'18,	Conference	fisherman patrol
34.		Department of ECE,		system using
		Sona College of		Arduino
		Technology, Salem		
				Environment
				based irrigation
35.	V. Aravind Kumar	IRJET	Journal	system using
				wireless
				technologies
				Environment
				based irrigation
36.	B. Balaji	IRJET	Journal	system using
				wireless
				technologies
				Environment
				based irrigation
37.	S. Hariprakash	IRJET	Journal	system using
				wireless
				technologies

				Environment
20	C. Catharak	IDIET	1	_
38.	S. Satheesh	IRJET	Journal	
			Journal of Efficient Vending Machine Implementation of Efficient Vending Machine Implementation of Efficient Vending Machine Implementation of Efficient Vending Machine Library automation using RFID Tack	
				_
		ICRTECTITA-2018,		
39.	B. Devasenathipathi	PSNA College of	Journal	of Efficient
	2. 2 0. a00aupau	Engineering and	550	Vending
		Technology, Salem		Machine
		ICRTECTITA-2018,		Implementation
40.	J. Abishek	PSNA College of	lournal	of Efficient
40.	J. ADISTIEK	Engineering and	Journal	Vending
		Technology, Salem		Machine
		ICRTECTITA-2018,		Implementation
4.4	N. M. I	PSNA College of	Journal	of Efficient
41.	N. Mohammed Riyas	Engineering and		Vending
		Technology, Salem		Machine
		ICRTECTITA-2018,		Implementation
40	0.01.1(1000)	PSNA College of		of Efficient
42.	S. Gokul (1996)	Engineering and	Journal	Vending
		Technology, Salem		Machine
		ESCON-18,		
		Department of ECE,		,
43.	D.K. Balajee	Selvam College of	Conference	
		Technology,Namakkal		using RFID Tag
		ESCON-18,		
		Department of ECE,		_
44.	R. Dhinesh	Selvam College of	Conference	automation
		Technology, Namakkal		using RFID Tag
		ESCON-18,		
		Department of ECE,		Library
45.	S. Gokul (1997)	Selvam College of	Conference	automation
		Technology, Namakkal		using RFID Tag
		ESCON-18,		Library
46.	G. Hariprasath	Department of ECE,	Conference	automation
		Department of LCL,		automation

		Selvam College of		using RFID Tag
		Technology,Namakkal		
		ESCON-18,		Library
47	I/ D. M. w. ann and bare	Department of ECE,	Conference	Library automation using RFID Tag Smart Notice Board using Raspberry PI and NODE-RED Smart Notice Board using Raspberry PI and NODE-RED Smart Notice Board using Raspberry PI and NODE-RED
47.	K.R. Muruganantham	Selvam College of	Conference	
		Technology,Namakkal		using KFID Tag
		National conference		
		in signal and Image		
		Processing,		Smart Notice
48.	Moulidharan R	Communication, VLSI	Conference	Board using
40.	Mouliulial all K	design & Nano	Conference	Raspberry PI
		Technology, Sona		and NODE-RED
		College of		
		Technology, Salem.		
		National conference		
		in signal and Image		
		Processing,		Board using Raspberry PI
49.	Mushbar C	Communication, VLSI	Conference	
49.	Muthu S	design & Nano	Conference	Raspberry PI
		Technology, Sona		and NODE-RED
		College of		
		Technology, Salem.		
		National conference		
		in signal and Image		
		Processing,		Smart Notice Board using Raspberry PI and NODE-RED Smart Notice Board using Raspberry PI and NODE-RED Smart Notice Board using Raspberry PI and NODE-RED
50.	Manikandan K	Communication, VLSI	Conference	Board using
50.	nankanaan K	design & Nano	Contenence	Raspberry PI
		Technology, Sona		and NODE-RED
		College of		
		Technology, Salem.		
		National conference		Smart Notice
		in signal and Image		
51.	Lingesh Vijay S R	Processing,	Conference	_
		Communication, VLSI		
		design & Nano		and NODE-RED
L		1		1

		Technology, Sona		
		College of		
		Technology, Salem.		
		International Journal		
		of advanced		Density Based
F2	Wannah ia C	Research in Electrical	1 - · · · · - 1	Smart Lighting
52.	Kowsalya S	Electronics and	Journal	System using
		Instrumentation		IOT
		Engineering		
		International Journal		
		of advanced		Density Based
53.	Lavanya A	Research in Electrical	Journal	Smart Lighting
55.	Lavaliya A	Electronics and	Journal	System using
		Instrumentation		IOT
		Engineering		
		International Journal		
	Monisha R	of advanced	Journal	Density Based
54.		Research in Electrical		Smart Lighting
54.		Electronics and		System using
		Instrumentation		IOT
		Engineering		
		International Journal		
		of advanced		Density Based
55.	G.Lakshmi Priya	Research in Electrical	Journal	Smart Lighting
33.	Gizakomini i iiya	Electronics and	Joannai	System using
		Instrumentation		IOT
		Engineering		
		International Journal		Adaptive
		of advanced		Equalization of
		Research in Electrical		Lorentz System
56.	Karthigaipriya R	Electronics and	Journal	& Its
		Instrumentation		Application in
		Engineering		Cryptography
57.	Kavitha B	International Journal	Journal	Adaptive

		of advanced		Equalization of
		Research in Electrical		Lorentz System
		Electronics and		& Its Application
		Instrumentation		in Cryptography
		Engineering		
		International Journal		Adaptive
		of advanced		Equalization of
58.	Maniula V	Research in Electrical	Journal	Lorentz System
56.	Manjula V	Electronics and	Journal	& Its Application
		Instrumentation		in Cryptography
		Engineering		
		International Journal		Adaptive
		of advanced		Equalization of
59.	Meena P	Research in Electrical	Journal	Lorentz System
39.	меена Р	Electronics and	Journal	& Its Application
		Instrumentation		in Cryptography
		Engineering		
		National conference		
		in signal and Image		
		Processing,		Face
60.	Nithish M S	Communication, VLSI	Conference	Recognition
00.	Michight 14 3	design & Nano	Contenence	using Deep
		Technology, Sona		Learning
		College of		
		Technology, Salem.		
		National conference		
		in signal and Image		
		Processing,		Face
61.	Ram Prasaath J	Communication, VLSI	Conference	Recognition
01.	Rain Frasadii 5	design & Nano	Conterence	using Deep
		Technology, Sona		Learning
		College of		
		Technology, Salem.		
62.	Ramkumar A	National conference	Conference	Face
02.	Ramkumur A	in signal and Image	Comercine	Recognition

		Processing,		using Deep
		Communication, VLSI		Learning
		design & Nano		
		Technology, Sona		
		College of		
		Technology, Salem.		
		National conference		
		in signal and Image		
		Processing,		Face
		Communication, VLSI		Recognition
63.	Lakshman S	design & Nano	Conference	using Deep
		Technology, Sona		Learning
		College of		
		Technology, Salem.		
		Convergent		
		communication		
		technologies,		Digital Image
		telemedicine		Enhancement
64.	Rajaganesh G	Networking &	Conference	using SVD-DWT
		Renewable		Techniques.
		Resources, Vinayaka		
		Mission research		
		Foundation, Salem.		
		Convergent		
		communication		
		technologies,		Digital Image
		telemedicine		Enhancement
65.	Manikandan M K	Networking &	Conference	using SVD-DWT
		Renewable		Techniques.
		Resources, Vinayaka		
		Mission research		
		Foundation, Salem.		
		Convergent		Digital Image
66.	Nateshraja B	communication	Conference	Enhancement
		technologies,		using SVD-DWT

		telemedicine Networking & Renewable Resources, Vinayaka Mission research Foundation, Salem. National conference in signal and Image		Techniques.
67.	Palanisamy G	Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Hyperspectral Image Classification using SVM
68.	Muralikrishnan N	National conference in signal and Image Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Hyperspectral Image Classification using SVM
69.	Kiruthik Pranav S K	National conference in signal and Image Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Hyperspectral Image Classification using SVM
70.	Preetha M	International Journal of advanced Research in Electrical Electronics and	Journal	Image Enhancement of Microstructural Images.

		Instrumentation		
		Engineering		
		International Journal		
		of advanced		Image
71.	Priya S	Research in Electrical	Journal	Enhancement of
/1.	riiya 3	Electronics and	Journal	Microstructural
		Instrumentation		Images.
		Engineering		
		International Journal		
		of advanced		Image
72.	Ramya S	Research in Electrical	Journal	Enhancement of
/2.	Railiya 5	Electronics and	Journal	Microstructural
		Instrumentation		Images.
		Engineering		
		International Journal		
	P.Thenaruvi	of advanced	Journal	Image
73.		Research in Electrical		Enhancement of
/3.		Electronics and		Microstructural
		Instrumentation		Images.
		Engineering		
		National conference		Extraction of
		in signal and Image		Human Features
		Processing,		from Closed
74.	Keerthana P	Communication, VLSI	Conference	Circuit
/	Reel chana i	design & Nano	Contenence	Television
		Technology, Sona		Video Footage
		College of		for Investigation
		Technology, Salem.		101 Investigation
		National conference		Extraction of
		in signal and Image		Human Features
		Processing,		from Closed
75.	Kokila P	Communication, VLSI	Conference	Circuit
		design & Nano		Television
		Technology, Sona		Video Footage
		College of		for Investigation

		Technology, Salem.		
76.	Ramya DB	National conference in signal and Image Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Extraction of Human Features from Closed Circuit Television Video Footage for Investigation
77.	Leela Devi V	National conference in signal and Image Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Extraction of Human Features from Closed Circuit Television Video Footage for Investigation
78.	Naveen Raj R	Convergent communication technologies, telemedicine Networking & Renewable Resources, Vinayaka Mission research Foundation, Salem.	Conference	IOT and Finger Print Based Patient Report
79.	SA.Gurunarayanan	Convergent communication technologies, telemedicine Networking & Renewable Resources, Vinayaka Mission research Foundation, Salem.	Conference	IOT and Finger Print Based Patient Report

80.	Mustaffa	Convergent communication technologies, telemedicine Networking & Renewable Resources, Vinayaka Mission research Foundation, Salem.	Conference	IOT and Finger Print Based Patient Report
81.	Soundarya Meenatchi	ARPN Journal of Engineering and Applied Sciences	Journal	Auto Irrigation System using Soil Moisture Sensor
82.	Pavithra N	ARPN Journal of Engineering and Applied Sciences	Journal	Auto Irrigation System using Soil Moisture Sensor
83.	Priyanka C	ARPN Journal of Engineering and Applied Sciences	Journal	Auto Irrigation System using Soil Moisture Sensor
84.	S.Sunmathy	ARPN Journal of Engineering and Applied Sciences	Journal	Auto Irrigation System using Soil Moisture Sensor
85.	Kaviya P	National conference in signal and Image Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Women's Safety Device using GSM & GPS and Shock Generation Circuit
86.	Priya O	National conference in signal and Image	Conference	Implementation of Analytics for

		Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem. National conference in signal and Image Processing,		Women's Safety Device using GSM & GPS and
87.	Keerthana S	Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Shock Generation Circuit
88.	Nishanth S	National conference in signal and Image Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Camera Stabilization over Vertical Axis using Laser as Reference Point
89.	Muthukumaran M	National conference in signal and Image Processing, Communication, VLSI design & Nano Technology, Sona College of Technology, Salem.	Conference	Camera Stabilization over Vertical Axis using Laser as Reference Point
90.	Ragul M	National conference in signal and Image Processing, Communication, VLSI design & Nano	Conference	ATM Transaction Using Fingerprint Recognition And Aadhar Card

		Technology, Sona		
		College of		
		Technology, Salem.		
		National conference		
		in signal and Image		ATM Transaction
		Processing,		Using
01	1/th::	Communication, VLSI	Carefamana	Fingerprint
91.	Karthikraja S	design & Nano	Conference	Recognition And
		Technology, Sona		Aadhar Card
		College of		
		Technology, Salem.		
		National conference		
		in signal and Image		ATM Transaction
	Karthick Velan P	Processing,		Using
92.		Communication, VLSI	Conference	Fingerprint
92.		design & Nano	Comercice	Recognition And
		Technology, Sona		Aadhar Card
		College of		
		Technology, Salem.		
		Second International		
	A.Sandhiya	Conference on		
93.		Innovations In	Conference	Fire Fighting
) 55.		Engineering	Comerciae	Robot
		,Technology and		
		Science		
		Second International		
	S.Prithiya	Conference on		
94.		Innovations In	Conference	Fire Fighting
J 1.		Engineering	Comerciae	Robot
		,Technology and		
		Science		
		Second International		
95.	K.Tharani	Conference on	Conference	Fire Fighting
55.	K. l'harani	Innovations In	Comercial	Robot
		Engineering		

		,Technology and		
		Science		
		National conference		
		on emerging trends		Removal of
96.	Z.Saramma	in Signal and Image	Conference	Noise in ECG
50.	Zioaraiiiia	Processing,	Comerciae	Signal
		Communication, VLSI		Signal
		and Nanotechnology		
		National conference		
		on emerging trends		Removal of
0.7	B.Sharmilaa	in Signal and Image	Conference	
97.	B.Snarmilaa	Processing,	Conference	Noise in ECG
		Communication, VLSI		Signal
		and Nanotechnology		
		National conference		
	S.Sneha	on emerging trends		
98.		in Signal and Image		Removal of
		Processing,	Conference	Noise in ECG
		Communication, VLSI		Signal
		and Nanotechnology		
		National conference		
		on emerging trends		
	R.Sowmiya	in Signal and Image		Removal of
99.		Processing,	Conference	Noise in ECG
		Communication, VLSI		Signal
		and Nanotechnology		
				A Novel
		National conference		Paradigm of
		on emerging trends		Blind Indoor
100.	P.Srinithi	in Signal and Image	Conference	Navigation
		Processing,		System Using
		Communication, VLSI		Li-Fi Technology
		and Nanotechnology		
		National conference		A Novel
101.	V.Suchitra	on emerging trends	Conference	Paradigm of
<u></u>				_

		in Signal and Image		Blind Indoor
		Processing,		Navigation
		Communication, VLSI		System Using
		and Nanotechnology		Li-Fi Technology
		National conference		A Novel
		on emerging trends		Paradigm of
102.	M.Thaarani	in Signal and Image	Conference	Blind Indoor
102.	M. Hidaraili	Processing,	Conterence	Navigation
		Communication, VLSI		System Using
		and Nanotechnology		Li-Fi Technology
		National conference		A Novel
103.		on emerging trends		Paradigm of
	R.M.Valliammai	in Signal and Image	Conference	Blind Indoor
		Processing,	Comerence	Navigation
		Communication, VLSI		System Using
		and Nanotechnology		Li-Fi Technology
	D.Ravindhiran	National conference		
		on emerging trends		Data Acquisition
104		in Signal and Image	Conference	System for
104.		Processing,	Comercice	Environmental
		Communication, VLSI		Monitoring
		and Nanotechnology		
		National conference		
		on emerging trends		Data Acquisition
105.	R.Santhosh kumar	in Signal and Image	Conference	System for
105.	K.Santhosh kamai	Processing,	Comerciae	Environmental
		Communication, VLSI		Monitoring
		and Nanotechnology		
		National conference		
		on emerging trends		Data Acquisition
106.	R.Thamil bharathi	in Signal and Image	Conference	System for
100.	R.Thamil bharathi	Processing,		Environmental
		Communication, VLSI		Monitoring
		and Nanotechnology		

107.	A.Thomas A.Thomas A.Thomas National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology		Conference	Data Acquisition System for Environmental Monitoring	
108.	M.Santhoshkumar	National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology	Conference	Estimating Power Releases from Corona Discharges using Dip Technique	
109.	L.Sathish kumar	National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology	Conference	Estimating Power Releases from Corona Discharges using Dip Technique	
110.	R.Shailash	National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology	Conference	Estimating Power Releases from Corona Discharges using Dip Technique	
111.	P.Renuga Devi	Second International Conference on Innovations In Engineering ,Technology and Science	Conference	Smart Vehicle Tracking & Monitoring System Using Arm	
112.	T.M.Shanmathi	Second International Conference on Innovations In	Conference	Smart Vehicle Tracking & Monitoring	

		Engineering ,Technology and		System Using Arm
		Science		AIIII
113.	S.Sathya Rupini	Second International Conference on Innovations In Engineering ,Technology and Science	Conference	Smart Vehicle Tracking & Monitoring System Using Arm
114.	N.Shanmuga Priya	Second International Conference on Innovations In Engineering ,Technology and Science	Conference	Image Enhancement Using PSO for Video Based Image Analysis
115.	A.Shilpa	Second International Conference on Innovations In Engineering ,Technology and Science	Conference	Image Enhancement Using PSO for Video Based Image Analysis
116.	S.Santhiya	Second International Conference on Innovations In Engineering ,Technology and Science	Conference	Automatic Detection of Entry in to A Restricted Area Using IOT
117.	G.Subhashini	Second International Conference on Innovations In Engineering ,Technology and Science Conference Conference		Automatic Detection of Entry in to A Restricted Area Using IOT
118.	Y.Vidhya lakshmi	Second International Conference on	Conference	Automatic Detection of

		Innovations In		Entry in to A
		Engineering		Restricted Area
		,Technology and		Using IOT
		Science		
		Second International Conference on		Automatic
		Innovations In		Detection of
119.	G.Ramya	Engineering	Conference	Entry in to A
		,Technology and		Restricted Area
		Science		Using IOT
		National conference		Automatic
		on emerging trends		Detection of
		in Signal and Image		Entry Into A
120.	. S.Shriram	Processing,	Conference	Restricted Area
		Communication, VLSI		using - IOT
		and Nanotechnology		
	A.Victor Imanuel	National conference		Automatic
		on emerging trends		Detection of
		in Signal and Image		Entry Into A
121.		Processing,	Conference	Restricted Area
		Communication, VLSI		using - IOT
		and Nanotechnology		
		National conference		Automatic
		on emerging trends		Detection of
422		in Signal and Image	6 (Entry Into A
122.	S.Santhosh	Processing,	Conference	Restricted Area
		Communication, VLSI		using - IOT
		and Nanotechnology		
		National conference		
	R.Sounder	on emerging trends		CNC Writing
100		in Signal and Image	Conference	Machine using
123.		Processing,	Conterence	Arduino
		Communication, VLSI		
		and Nanotechnology		
124.	P.Sujeeth kumar	National conference	Conference	CNC Writing

125.	T.Surya Prakash	on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology	Conference	Machine using Arduino CNC Writing Machine using Arduino
126.	S.Sabitha	Second International Conference on Innovations In Engineering ,Technology and Science	Conference	Automatic Speed Control According to Speed Limits and GPS Tracking for Accidental Monitoring of Vehicle
127	R.Sathiya Lakshmi	Second International Conference on Innovations In Engineering ,Technology and Science	Conference	Automatic Speed Control According to Speed Limits and GPS Tracking for Accidental Monitoring of Vehicle
128.	S.Sindhuja	Second International Conference on Innovations In Engineering	Conference	Automatic Speed Control According to Speed Limits

Science Science Tracking for Accidental Monitoring of Vehicle Automatic Speed Control According to Speed Limits and GPS Tracking for Accidental Monitoring of Vehicle 129. A.Swetha Conference on Innovations In Engineering Technology and Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Science Android Based Robotic Control for Surveillance Application Android Based Robotic Control for Surveillance For Surveillance Robotic Control for Surveillance For Surveillance For Surveillance For Surveillance For Surveillance			,Technology and		and GPS
Monitoring of Vehicle Second International Conference on Innovations In Engineering ,Technology and Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image National conference on emerging trends in Signal and Image Conference For Surveillance Conference for Surveillance			Science		Tracking for
Vehicle Automatic Speed Control According to Speed Limits and GPS Tracking for Accidental Monitoring of Vehicle National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Application Android Based Robotic Control for Surveillance Android Based Robotic Control for Surveillance Conference On emerging trends in Signal and Image Robotic Control For Surveillance Conference For Surveillance					Accidental
Automatic Speed Control According to Speed Limits and GPS Tracking for Accidental Monitoring of Vehicle National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Android Based Robotic Control for Surveillance Android Based Robotic Control Conference Android Based Robotic Control Conference On emerging trends in Signal and Image Conference On emerging trends in Signal and Image Conference Conference Conference Android Based Robotic Control Conference Conference Conference Conference					Monitoring of
Second International Conference on Innovations In Engineering , Technology and Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Android Based Robotic Control for Surveillance Android Based Robotic Control For Surveillance Conference Conference Android Based Robotic Control For Surveillance					Vehicle
Second International Conference on Innovations In Engineering , Technology and Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Android Based Robotic Control for Surveillance Android Based Robotic Control For Surveillance Conference Conference Android Based Robotic Control For Surveillance					
Second International Conference on Innovations In Engineering Technology and Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Application According to Speed Limits and GPS Tracking for Accidental Monitoring of Vehicle Conference For Surveillance Application Android Based Robotic Control For Surveillance Robotic Control For Surveillance For Surveillance For Surveillance For Surveillance For Surveillance For Surveillance					Automatic
Conference on Innovations In Engineering , Technology and Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Android Based Robotic Control for Surveillance Application Android Based Robotic Control for Surveillance Conference On emerging trends in Signal and Image Conference Conference Conference Android Based Robotic Control for Surveillance Conference Conference Conference					Speed Control
A.Swetha Innovations In Engineering Tracking for Accidental Monitoring of Vehicle National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Android Based Robotic Control Android Based Robotic Control Conference On emerging trends in Signal and Image Conference Conference Android Based Robotic Control For Surveillance Conference Conference On Surveillance			Second International		According to
130. V.Sivakamasundari National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image National conference on emerging trends in Signal and Image Conference Android Based Robotic Control for Surveillance Android Based Robotic Control for Surveillance For Surveillance for Surveillance			Conference on		Speed Limits
Engineering , Technology and Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference On emerging trends in Signal and Image Conference On emerging trends in Signal and Image Conference Conference For Surveillance Android Based Robotic Control for Surveillance Conference On emerging trends in Signal and Image Conference Conference For Surveillance	400		Innovations In		and GPS
Science National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Table Monitoring of Vehicle Android Based Robotic Control	129.	A.Swetna	Engineering	Conference	Tracking for
Vehicle National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image National conference on emerging trends in Signal and Image Conference Application Android Based Robotic Control for Surveillance Robotic Control for Surveillance for Surveillance			,Technology and		Accidental
National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Android Based Robotic Control for Surveillance Android Based Robotic Control for Surveillance			Science		Monitoring of
130. V.Sivakamasundari On emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Application Android Based Robotic Control for Surveillance Android Based Android					Vehicle
130. V.Sivakamasundari On emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Application Android Based Robotic Control for Surveillance Android Based Android					
on emerging trends in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference Application Android Based Robotic Control for Surveillance Android Based Robotic Control for Surveillance Conference On emerging trends in Signal and Image Conference Conference For Surveillance		V.Sivakamasundari	National conference		A 1 :15
130. V.Sivakamasundari in Signal and Image Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image 131. S.Soniva Conference for Surveillance Application Android Based Robotic Control for Surveillance			on emerging trends		
Processing, Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Processing, Application Android Based Robotic Control for Surveillance	120		in Signal and Image	Conforme	
Communication, VLSI and Nanotechnology National conference on emerging trends in Signal and Image Conference for Surveillance	130.		Processing,	Conference	
National conference on emerging trends in Signal and Image Conference for Surveillance			Communication, VLSI		Application
on emerging trends in Signal and Image Android Based Robotic Control Conference for Surveillance			and Nanotechnology		
on emerging trends in Signal and Image Conference Conference Conference			National conference		Andreid Doced
in Signal and Image Conference for Surveillance			on emerging trends		
1311 S.Soniva	121	C Canina	in Signal and Image	Cantanana	
Processing,	131.	5.50niya	Processing,	Conference	
Communication, VLSI Application			Communication, VLSI		Application
and Nanotechnology			and Nanotechnology		
National conference Android Based			National conference		Android Based
on emerging trends		S.Sowmhiyaa	on emerging trends		
132, S.Sowmhiyaa Robotic Control Conference Conference For Surveillance	122		in Signal and Image	Conforme	
Processing,	132.		Processing,	Conterence	
Communication, VLSI Application			Communication, VLSI		Application
and Nanotechnology			and Nanotechnology		
133 A.Sivaraman Second International Conference Design and	133.	A.Sivaraman	Second International	Conference	Design and

		Conference on		Implementation
		Innovations In		of Smart Energy
		Engineering		Meter using IOT
		,Technology and		
		Science		
		Second International		Decign and
		Conference on		Design and
124	A.SulthanaParveen	Innovations In	Conference	Implementation
134.	A.SuithanaParveen	Engineering	Conference	of Smart Energy
		,Technology and		Meter using IOT
		Science		
		Second International		Decign and
135.	S.Vanmathi	Conference on		Design and
		Innovations In	Conference	Implementation of Smart Energy
		Engineering	Conference	
		,Technology and		Meter using IOT
		Science		
	A.Elangovan	Second International		Docian and
		Conference on		Design and Implementation
126		Innovations In	Conference	of Smart Energy
130.		Engineering	Conterence	Meter using IOT
		,Technology and		Meter using 101
		Science		
		Second International		
		Conference on		Reliable Data
137.	R.Gowsika	Innovations In	Conference	Collection using
15/.	N.GOWSIKa	Engineering	Contenence	WSN on MASP
		,Technology and		
		Science		
		Second International		
		Conference on		Reliable Data
130	T Monicha	Innovations In	Conference	Collection using
136.	T.Monisha	Engineering	Contended	WSN on MASP
		,Technology and		
		Science		

139. Ad	dharsh	Smart Zoning strategies for Hand written Tamil Characters in Palm Leaf Manuscripts	Journal	ICBIP 2017 Proceedings of the 2nd International Conference on Biomedical Signal and Image Processing Pages 18-21
140. Go	okul	Smart Zoning strategies for Hand written Tamil Characters in Palm Leaf Manuscripts	Journal	ICBIP 2017 Proceedings of the 2nd International Conference on Biomedical Signal and Image Processing Pages 18-21

2015-16

Individual Student Achievement: J. Nishanth (2013 – 17 Batch)

Mr.J. Nishanth 2017 passed out has won Accenture Innovation Jockey – Grand Winner, Conducted by Accenture, Bangalore.got an opportunity to visit Silicon Valley, USA

Students have developed prototype for several projects with the support of faculty members:

- 1. Long Range Wireless Mic
- 2. Security Alert System
- 3. Accident Announcement System
- 4. Accident Control System
- 5. Automatic head light dimmer
- 6. Multiple over head system automation

- 7. Solar DC to DC Power systems
- 8. Brightness based light adaptive system

Student Level Achievements





Patents Filed

Electronic Equipment for Power Supply to Electronic Devices

1921 - CHE/2010

Worldwide Electronic Burglar Alarm

1922 - CHE/2010

Rain Indicator in a given place

1923 - CHE/2010

 $\label{thm:minimized} \mbox{\bf Minimized Electronic Equipment to Control Electrical Systems \& Burglar Alarm}$

1924 - CHE/2010

Automatic Electric Shock Tripper and Short Circuit Preventer

1925 - CHE/2010

An Electronic Device to control Electrical Equipment from anywhere across the World and send Multipurpose Call Messages to the given Mobile

Systems with overtank Waterlevel Controller and Time Clock System

1926 - CHE/2010

An Electronics Device to Control any Electrical Equipment Worldwide and Send Yoice Message to required Mobile Phone

Awarded to

Pratul Sarabh

Raful S

Ragunath L

From Sans College of Rechnology, Salem.

Joyce Sounds

The continue of Rechnology Salem.

Society the sound of Rechnology Salem.

Year Montablance' at the Surple of Rechnology Salem.

Society the Saleman Sa

Students develop gadget to check intellation emission in vehicles

The project has received appreciation of technologists from IITs and III

Special Correspondent
And the ment to ment to

College of Technology here have gone green by developing a new electronic gadget that will reduce the emission of carbon dioxide from whicies, especially two wheelers, by nearly 70 per cent. The team of Sour - IN, Raj - "Signesh, A.J., Salma Solitiss O, Rangamahay and P, Sebarafinal year students of Electronic and College and Coll

that could reduce in of carbon decide services.

or of carbon decide services in or carbon decide services.

Could be serviced in control which carbon decide services are carbon decided Callenge 2010 at a lot carbon decide

to the second sec

And the chemical replentishment cost is just 82,00 for every 450 to 500 km.

The embedded system measures the activity of the chemical unit and warns the vehicle driver when the chemical is erhousted.

This way the driver will know when to replace the chemical.

Cost

The unit will cost about

The unit will cost about Rs.400 per vehicle and it needs no alteration as it will be just an attachment to the silences. The students, who worked

on the project under the guidance of their Head of Department B. Gopi/chim that the gadget could reduce 13 per rent of total emission of carton dioxide released from the vehicles in India.

The college administration including its secretary A. Dhirajlal congratulated the team for the innovative idea that

CRITERION 5

FACULTY INFORMATION AND CONTRIBUTIONS

2017-18

S.N	Name of the	Qu	alificatio	on						Acad	emic R	esearch		
0	Faculty Members	Degree (highest degree)	University	Year of Graduation	Association with institution	Designation	Date of Joining the institution	Department	Specialization	Research Paper Publication	Ph.D Guidance	Faculty Receiving Ph.D During the Assessment	Sponsored Research (Funded Research)	Consultancy and Product Development
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Dr. R.S. Sabeenian	Ph.D	Anna	2009	15.6 y	Prof	23.12.2002	ECE	DIP	13	10	03	04	02
2.	Dr. R. Vinod Kumar	Ph.D	Anna	2015	12.3 y	Prof	20.03.2006	ECE	WN					
3.	Dr.M.Dhanasu	Ph.D	Anna	2016	1 m	Prof	28.5.2018	ECE	ES	3	-	-	-	-
4.	Dr. K.R. Kavitha	Ph.D	Anna	2014	12 y	Prof	07.06.2006	ECE	NE	02				
5.	Prof. J.P. Senthil	M.E	Anna	2007	11 y	ASP	20.06.2007	ECE	CS	01				

	Kumar													
6.	Prof .S. Deepa	M.E	Annam alai	2004	12 y	ASP	01.06.2006	ECE	PC & I		1	1		
7.	Dr. N. Sasirekha	Ph.D	Anna	2016	10.11 y	ASP	16.07.2007	ECE	IP		!			
8.	Dr. K. Anguraj	Ph.D	Anna	2015	12.9 y	ASP	14.09.2005	ECE	MIP					
9.	Dr. G. Ravi	Ph.D	Anna	2016	10.5 y	ASP	07.01.2008	ECE	WN	03	03			
10.	Dr. B.	Ph.D	Anna	2014	11 y	ASP	20.06.2007	EEE	DIP					
11.	Prof. M. Jamuna Rani	M.E	Anna	2005	10.5 y	AP (Sr.G)	08.01.2008	ECE	AE					
12.	Prof. T. Shanthi	M.E	Anna	2008	16 y	AP (Sr.G)	19.06.2002	ECE	CS	01				
13.	Dr . S. Jayapoorani	Ph.D	Anna	2013	11.10 y	АР	21.08.2006	ECE	NE				01	01
14.	Prof. T. Prema Kumari	M.E	Anna	2009	12.3 y	AP	20.03.2006	ECE	VLSI	03				
15.	Prof. M. Senthil Vadivu	M.E	Anna	2007	10.11 y	АР	11.07.2007	ECE	CS		-			

16.	Dr. M.E. Paramasivam	Ph.D	Anna	2018	10.11 y	AP	02.07.2007	ECE	VLSI	01				
17.	Prof. S. Sree Southry	M.E	Anna	2008	9.11 y	АР	04.07.2008	ECE	CS	-	-	1		04
18.	Prof. M. Susaritha	M.E	Anna	2009	8.11 y	AP	20.07.2009	ECE	VLSI					
19.	Prof. N.S. Yoganathan	M.E	Anna	2008	9.11 y	АР	16.07.2008	ECE	VLSI		1	1	1	
20.	Prof. A. P. Jaya Krishna	M.E	Anna	2009	8.10 y	АР	07.08.2009	EEE	VLSI				01	
21.	Prof. A. Ayub Khan	M.E	Anna	2010	7.11 y	AP	01.07.2010	ECE	AE	1	1	1		04
22.	Prof. K. Manju	M.E	Anna	2007	10.10	AP	16.08.2007	ECE	CS	!				
23.	Dr. S. Vijaya Lakshmi	Ph.D	Anna	2017	10.5 y	AP	02.01.2008	ECE	CS					
24.	Prof. P.M. Dinesh	M.E	Anna	2011	7 y	AP	20.06.2011	ECE	VLSI				04	01
25.	Prof. D.P. Sangeetha	M.E	Anna	2012	10.11y	AP	09.07.2007	ECE	AE					
26.	Prof. P. Priya	M.E	Anna	2009	4.11y	AP	08.07.2013	ECE	CS					

27.	Prof. A. Sangeetha	M.E	Anna	2009	4.11y	AP	08.07.2013	ECE	CS			 	
28.	Prof. V. Geetha Lakshmi	M.E	Hindust an	2013	4.11y	АР	10.07.2013	ECE	VLSI		1	 	
29.	Prof. S. Vijayashaarathi	M.E	Anna	2012	4.9y	АР	12.09.2013	ECE	CS		-	 	
30.	Mr. P. Vivek Karthick	M.E	Anna	2013	1 y	AP	01.06.2017	ECE	VLSI	01		 	
31.	Mr. Eldho Paul	M.E	Anna	2016	1 y	AP	01.06.2017	ECE	CS			 	
32.	Ms. M. Amutha	M.E	Anna	2009	13	AP	17.06.2005	ECE	CC		-1	 	
33.	Mr. R. Anand	M.E	Amritha	2017	1 y	АР	28.06.2017	ECE	CE & SP		-	 	
34.	Prof. R. Gayathri	M.E	Anna	2009	1 y	АР	01.06.2017	ECE	CS			 	
	PG - (VLSI)												
35.	Prof. J. Harirajkumar	M.Tech	Sastra	2006	11.6y	ASP	15.12.2006	ECE	VLSI		-1	 	
36.	Prof. V. Meenakshi	M.E	Anna	2010	7.10 y	AP	05.08.2010	ECE	VLSI			 	

37.	Prof.K.Saranya	M.E	Anna	2016	2 y	AP	08.7.2016	ECE	VLSI	 	 -	

	PG - (CS)											
38.	Dr.Vasumathi	Ph. D	NIT	2014	1 y	ASP	08.06.201	ECE	VLSI	 	 	
39.	Prof. A.B. Ahadit	M.Tech	Calicut	2015	2 y	AP	13.06.201	ECE	EDT	 	 	
40.	Mr. S. Ram Kumar	M.E	Anna	2014	11 Mont hs	АР	21.07.201	ECE	AE	 	 	

	Adhoc Faculty												
1.	Mr.M.Shanthakum ar	M.E	St.Peters	2011	-	Adhoc	10.7.2017	ECE	AE	1	 		
2.	Mrs.S.Ponlatha	M.E	Anna	2008	-	Adhoc	05.7.2017	ECE	CS	3	 	-	

^{*}The Adhoc faculties are not considered for SFR calculation 5.1

2016-17

S.No	Name of the Faculty	Qu	alificatio	on			ihe			Aca	demic	Research	ch (c	ent
	Members	Degree (highest degree)	University	Year of Graduation	Association with	Designation	Date of Joining the Institution	Department	Specialization	Research Paper Publication	Ph.D Guidance	Faculty Receiving Ph.D during the Assessment Years	Sponsored Research (Funded Research)	Consultancy and Product Development
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Dr. K.R. Kashwan	Ph.D	Tezpu r	2007	11.7	Prof	17.11.2005	ECE	EC	03	12	2		
2.	Dr. R.S. Sabeenian	Ph.D	Anna	2009	14.6	Prof	23.12.2002	ECE	DIP	12	12		03	02
3.	Dr. R. Vinod Kumar	Ph.D	Anna	2015	11.3	Prof	20.03.2006	ECE	WN					
4.	Prof. J.P. Senthil Kumar	M.E	Anna	2007	10	ASP	20.06.2007	ECE	CS	01				
5.	Dr. K.R. Kavitha	Ph.D	Anna	2014	11	ASP	07.06.2006	ECE	NE	02				
6.	Prof .S. Deepa	M.E	Anna	2004	11	ASP	01.06.2006	ECE	PC &	1				

			malai						I				
7.	Dr. N. Sasirekha	Ph.D	Anna	2016	9.11	ASP	16.07.2007	ECE	IP			 	
8.	Prof. M. Jamuna Rani	M.E	Anna	2005	9.5	AP(Sr .G)	08.01.2008	ECE	AE			 	
9.	Prof. T. Shanthi	M.E	Anna	2008	15	AP(Sr .G)	19.06.2002	ECE	CS	01		 	
10.	Dr. K. Anguraj	Ph.D	Anna	2015	11.9	AP(Sr .G)	14.09.2005	ECE	MIP			 	
11.	Dr . S. Jayapoorani	Ph.D	Anna	2013	10.1	АР	21.08.2006	ECE	NE			 01	01
12.	Dr. G. Ravi	Ph.D	Anna	2016	9.5	AP	07.01.2008	ECE	WN	03	03	 	
13.	Prof. T. Prema Kumari	M.E	Anna	2009	11.3	AP	20.03.2006	ECE	VLSI	03		 	
14.	Dr. B. Thiyaneswaran	Ph.D	Anna	2014	10	AP	20.06.2007	EEE	DIP			 	
15.	Prof. M. Senthil Vadivu	M.E	Anna	2007	9.11	АР	11.07.2007	ECE	CS			 	
16.	Prof. M.E. Paramasivam	M.E	Anna	2010	9.11	АР	02.07.2007	ECE	VLSI	01		 	

17.	Prof. S. Sree Southry	M.E	Anna	2008	8.11	AP	04.07.2008	ECE	CS		 		04
18.	Prof. M. Susaritha	M.E	Anna	2009	7.11	AP	20.07.2009	ECE	VLSI	1	 		
19.	Prof. N.S. Yoganathan	M.E	Anna	2008	8.11	AP	16.07.2008	ECE	VLSI		 		
20.	Prof. A. P. Jaya Krishna	M.E	Anna	2009	7.10	АР	07.08.2009	EEE	VLSI		 	01	
21.	Prof. A. Ayub Khan	M.E	Anna	2010	6.11	AP	01.07.2010	ECE	AE		 		04
22.	Prof. K. Manju	M.E	Anna	2007	9.10	AP	16.08.2007	ECE	CS		 		
23.	Prof. S. Vijaya Lakshmi	M.E	Anna	2008	9.5	АР	02.01.2008	ECE	CS		 		
24.	Prof. P.M. Dinesh	M.E	Anna	2011	6	AP	20.06.2011	ECE	VLSI		 	04	01
25.	Prof. D.P. Sangeetha	M.E	Anna	2012	9.11	AP	09.07.2007	ECE	AE		 		
26.	Prof. P. Priya	M.E	Anna	2009	3.11	AP	08.07.2013	ECE	CS		 		
27.	Prof. A. Sangeetha	M.E	Anna	2009	3.11	AP	08.07.2013	ECE	CS		 		
28.	Prof. V. Geetha Lakshmi	M.E	Hindus tan	2013	3.11	АР	10.07.2013	ECE	VLSI		 		

29.	Prof M.Amutha	M.E	Anna	2009	13	AP	17.06.2005	ECE	CC						
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	PG - (VLSI)													
30	Dr.D.Jayanthi	Ph. D	Anna	2013	11.10	ASP	17.08.200 5	ECE	VLSI					
31	Prof. J. Harirajkumar	M.Tech	Sastra	2006	10.6	ASP	15.12.200	ECE	VLSI					
32	Prof. V. Meenakshi	M.E	Anna	2010	6.10	АР	05.08.201	ECE	VLSI		1	!	1	
	PG - (CS)													
33	Prof.S.Imaculate Rosaline	M.E	Anna	2013	1 y	АР	15.06.201 6	ECE	CS	1		ļ	1	
34	Prof. S. Vijayashaarathi	M.E	Anna	2012	3.9	АР	12.09.201	ECE	CS	1		1	1	

3	Prof. A.B. Ahadit	M.Tech	Calicut	2015	1 y	АР	13.06.201	ECE	EDT	 	 	
							6					

	Adhoc Faculty *													
1.	Ms.K.Saranya	M.E	Anna	2016	-	Adhoc Facuty	08.7.2016	ECE	VLSI				-	
2.	Mr.K.Kandiban	M.E	Anna	2012	1.1y	Adhoc	01.7.2015	ECE	PED			-	-	

^{*}The Adhoc faculties are not considered for SFR calculation 5.1

2015 - 16

S.N o			alificatio	on	Institution		ЭС				cadem eseard		ponsor	Consu
		Degree (highest degree)	University	Year of Graduation	Association with Inst	Designation Date of Joining the Institution		Department	Specialization	Research Paper Publication	Ph.D Guidance	aculty Receiving Ph.D		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Dr. B. Gopi	Ph.D	Anna	2014	18	Prof	10.06.1998	ECE	NE					
2.	Dr. R.S. Sabeenian	Ph.D	Anna	2009	13.6	Prof	23.12.2002	ECE	DIP	03	12		02	02
3.	Dr. R. Vinod Kumar	Ph.D	Anna	2015	10.3	Prof	20.03.2006	ECE	WN					
4.	Prof. J.P. Senthil Kumar	M.E	Anna	2007	9	ASP	20.06.2007	ECE	CS	01				

5.	Dr. K.R. Kavitha	Ph.D	Anna	2014	10	ASP	07.06.2006	ECE	NE				
6.	Prof. S. Deepa	M.E	Anna malai	2004	10	ASP	01.06.2006	ECE	PC &				
7.	Prof. T. Shanthi	M.E	Anna	2008	15	AP (Sr.G	19.06.2002	ECE	CS			1	
8.	Prof. M. Jamuna Rani	M.E	Anna	2005	8.5	AP (Sr.G	08.01.2008	ECE	AE				
9.	Dr. K. Anguraj	Ph.D	Anna	2015	10.9	AP (Sr.G	14.09.2005	ECE	MIP				
10.	Prof. T. Prema Kumari	M.E	Anna	2009	10.3	AP	20.03.2006	ECE	VLSI				
11.	Dr. B. Thiyaneswaran	Ph.D	Anna	2014	9	AP	20.06.2007	EEE	DIP				
12.	Prof. M. Senthil Vadivu	M.E	Anna	2007	8.11	AP	11.07.2007	ECE	CS				
13.	Prof. M.E. Paramasivam	M.E	Anna	2010	8.11	AP	02.07.2007	ECE	VLSI	01	-		
14.	Prof. S. Sree Southry	M.E	Anna	2008	7.11	AP	04.07.2008	ECE	CS				
15.	Prof. N.S. Yoganathan	M.E	Anna	2008	7.11	AP	16.07.2008	ECE	VLSI				
16.	Prof. A. P. Jaya Krishna	M.E	Anna	2009	6.10	AP	07.08.2009	EEE	VLSI				
17.	Prof. A. Ayub Khan	M.E	Anna	2010	5.11	AP	01.07.2010	ECE	AE				

	I	ı	1										1	
18.	Prof. K. Manju	M.E	Anna	2007	8.10	AP	04.01.2011	ECE	CS					
19.	Prof. S. Vijaya Lakshmi	M.E	Anna	2008	8.5	AP	02.01.2008	ECE	CS	02				
20.	Prof. P.M. Dinesh	M.E	Anna	2011	5	AP	20.06.2011	ECE	VLSI					
21.	Prof. D.P. Sangeetha	M.E	Anna	2012	8.11	AP	09.07.2007	ECE	AE	1	1	1		-
22.	Prof. P. Priya	M.E	Anna	2009		AP	08.07.2013	ECE	CS					
23.	Prof. A. Sangeetha	M.E	Anna	2009	2.11	AP	8.07.2013	ECE	CS					
24.	Prof. V. Geetha Lakshmi	M.E	Hindu stan	2013	2.11	АР	10.07.2013	ECE	VLSI				1	1
	PG (VLSI Design)													
25.	Dr. K.R. Kashwan	Ph.D	Tezpur	2007	10.7	Prof	17.11.2005	ECE	EC	20	12	05	-	1
26.	Dr.D.Jayanthi	Ph. D	Anna	2013	10.1	ASP	17.08.2005	ECE	VLSI					
27.	Prof. J. Harirajkumar	M.Tec h	Sastra	2006	9.6	ASP	15.12.2006	ECE	VLSI					

28.	Prof. M. Susaritha	M.E	Anna	2009	6.11	AP	20.07.2009	ECE	VLSI	 	 	
29.	Prof. V. Meenakshi	M.E	Anna	2010	5.10	AP	05.08.2010	ECE	VLSI	 	 !	

	PG (CS)											
30.	Prof. N. Sasirekha	M.E	Anna	2007	8.11	ASP	16.07.2007	ECE	CS	03	 	
31.	Dr . S. Jayapoorani	Ph.D	Anna	2013	9.10	АР	21.08.2006	ECE	NE		 	
32.	Dr. G. Ravi	Ph.D	Anna	2016	8.5	АР	07.01.2008	ECE	WN	01	 	
33.	Prof. S.Vijayashaarathi	M.E	Anna	2012	2.9	AP	12.09.2013	ECE	CS		 	
	Adhoc Faculty*											
1.	Mr.K.Kandiban	M.E	Anna	2012	-	Adho	01.7.2015	EC	<u> </u>	PED	 	

^{*}The Adhoc faculties are not considered for SFR calculation 5.1

Note: Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year in above format in Annexure - II.

Table B.5

5.1 Student-Faculty Ratio (SFR) (20)

(To be calculated at Department Level)

No. of UG Programs in the Department: 1

(n)

No. of PG Programs in the Department: 2

(m) :

No. of Students in UG 2nd Year : **u1**

No. of Students in UG 3rd Year : **u2**

No. of Students in UG 4th Year : **u3**

No. of Students in PG 1st Year : **p1**

No. of Students in PG 2nd Year : **p2**

Year	CAY	CAY	CAY m1		
Teal	17-18	16-17	15-16		
u1.1	206	212	145		
u1.2	212	145	145		
u1.3	145	145	143		
UG1	563	502	433		
p1.1	30	30	30		
p1.2	30	30	30		
PG1	60	60	60		
P2.1	18	18	18		
P2.2	18	18	18		
PG2	36	36	36		
Total No. of Students in the	S1=659	S1=598	S2=529		
Department (S)	31-033	31-330	32-323		
No. of Faculty in th	F1=40+1 *	F2=35+1*	F3=33		
Department (F)	F1-40+1	F2-35+1*	F3-33		
Student Faculty Ratio	SFR1=S1/F1=16.	SFR2=	SFR3=		
(SFR)	7	S2/F2=16.61	S3/F3=16.03		
Average SFR	SFR=(SFR1+SFR2+SFR3)/3=16.24				
#1-Adjunct Exculty Dr C	Incoming the Color		•		

^{*1-}Adjunct Faculty Dr.Simarjeet Saini

No. of Students = Sanctioned Intake + Actual admitted lateral entry students (The above data to be provided considering all the UG and PG programs of the department)

Table B.5.1

S=Number of Students in the Department = UG1+UG2+UG3+PG1+PG2

 \mathbf{F} = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Faculty Ratio (SFR) = S / F

Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1.

Marks distribution is given as below:

- < = 15 20 Marks
- < = 17 18 Marks
- < = 19 16 Marks
- < = 21 14 Marks
- < = 23 12 Marks
- <= 25- 10 Marks
- > 25.0 0 Marks

Note: 75% should be Regular/ full time faculty and the remaining shall be Contractual Faculty/Adjunct Faculty/Resource persons from industry as per AICTE norms and standards.

The contractual faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre.

5.2. Faculty Cadre Proportion (20)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

- F1: Number of Profs required = $1/9 \times N$ umber of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per 5.1
- F2: Number of Associate Profs required = $2/9 \times Number$ of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per 5.1
- F3: Number of Assistant Profs required = 6/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students N) as per 5.1

Wala		Profs	Associa	ate Profs	Assis	tant Profs
Year	Required F1	Availabl e	Required F2	Availabl e	Required F3	Available
CAY (2017- 2018)	5	4	10	7+1*	29	29
CAYm1 (2016- 2017)	4	3	9	5+1*	27	27
CAYm2 (2015- 2016)	4	4	8	5	23	24
Average Numbers	RF1=4	AF1=3.6 6	RF2=9	AF2=6.3 3	RF3=26	AF3=26.66

*1-Adjunct Faculty Dr.Simarjeet Saini

5.3 Faculty Qualification (20)

FQ = $2.0 \times [(10X + 4Y)/F)]$ where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M. Tech., F is no. of regular faculty required to comply 1:15 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

	x	Y	F	FQ=2.0 x [(10X +4Y)/F)]
CAY (2017- 2018)	13	28	44	11
CAY <i>m</i> 1 (2016- 2017)	11	25	40	10.5
CAYm2 (2015- 2016)	10	23	35	11
	Average As		10.83	

Table B.5.3

5.4 Faculty Retention (10)

No. of regular faculty members in CAYm3=38 CAYm2=33 CAYm1=35 CAY=40

Details	CAY 17-18	CAYm1 16-17	CAYm2 15-16
Total number of faculty	40	35	33
Number of faculty retained for 3 years	32	31	28
Faculty retention ratio	80.0	88.5	84.84
Average		84.45	

^{*-}Due to increase in student intake ,new recruits are added in the CAY

Table B.5.4

Item (% of faculty retained during the period of assessment keeping CAYm3 as base year)	Mark s
>=90% of required Faculty members retained during the period of three academic years keeping CAY $m3$ as base year	10
>=75% of required Faculty members retained during the period of three academic years keeping CAYm3 as base year	08
>=60% of required Faculty members retained during the period of three academic years keeping CAY $m3$ as base year	06
>=50% of required Faculty members retained during the period of three academic years keeping CAY $m3$ as base year	04

<50% of required Faculty members retained during the period of	
three academic years keeping CAYm3 as base year	0

5.5. Faculty competencies in correlation to Program Specific Criteria (10)

S. No	Name of the Staff	ED&I C	CS & CA	Digital & VLSI	SIP	EMF & MW	Instrument ation	ADCS	EMS D	Satell ite & MC	PE
1	Dr. R.S. Sabeenian	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	Dr. R. Vinod Kumar	✓	✓	✓	✓	✓	~	✓	✓	√	✓
3.	Dr.M.Dhanasu	✓	✓	√	✓	√	~	✓	✓	√	✓
3	Prof. J.P. Senthil Kumar	✓						✓			
4	Prof. S. Deepa						~		✓		√
5	Dr. K.R. Kavitha	✓		√	✓	√			✓		
6	Dr. N. Sasirekha			✓	✓	√		✓		√	
7	Prof. J. Harirajkumar			✓					✓		✓
8	Prof. M. Jamuna Rani	✓			√			✓	✓		

9	Prof. T. Shanthi	✓		√	✓						
10	Dr. K. Anguraj			√	✓		√		✓		
11	Dr. S. Jayapoorani	✓					√	✓		✓	√
12	Dr. G. Ravi								✓	✓	
13	Prof. P. Priya							✓		✓	
14	Dr. S. Vijayalakshmi	✓		√	✓	✓	√				
15	Prof. K. Manju	✓			✓	✓		✓			
16	Prof. M. Senthil Vadivu				✓	✓		√		✓	
17	Prof. T. Prema Kumari	√		√	✓	✓	√			✓	
18	Prof. A. Sangeetha		✓	√	✓						
19	Dr. B. Thiyaneswaran	√		√	✓			_	✓		
20	Dr. M.E. Paramasivam			√	✓	✓					

21	Prof. V. Meenakshi			✓	✓	✓				✓	
22	Prof. S. Sree Southry	✓		✓		✓				✓	√
23	Prof. N.S. Yoganathan	✓	✓	✓				✓	✓		
24	Prof. D.P. Sangeetha		✓	✓	✓		~		✓		
25	Prof. M. Susaritha			✓				✓	✓	✓	
26	Prof. A.P. Jaya Krishna	√		√		✓	✓		✓		
27	Prof. A. Ayub Khan	✓					✓		✓		
28	Prof. P.M. Dinesh	√		✓	✓		√				
29	Prof. S. Vijayashaarathi	√	✓					✓			
30	Prof. A.B. Ahadit	✓	√			✓			✓		
31	Prof. K. Saranya	✓	✓	√					✓		
32	Prof. R. Gayathri				✓			✓		✓	

33	Prof. Eldho Paul	✓	✓		~	✓ 					
34	Prof. Anand.R			√	~			√			
35	Prof. Vivek karthick.		✓	√	✓						
36	Dr B.Vasumathi.			√					✓		
37	Prof. Amutha. M		✓	√	~			✓	✓		
38	Prof. Geethalakshmi. V			√	~			√		✓	
39	Prof. Ramkumar .S			✓	√	✓					
40	Dr.K.R.Kashwan	✓	✓	✓	✓	✓		✓	✓	✓	✓
41	Dr.B.Gopi		✓				✓	✓	✓		✓
42	Prof. S.Imaculate Rosaline	✓			✓	✓				✓	√
42			ite and M	obile Comr			s (TSN, WN, C	MC, SC)			✓

Satellite & MC – Satellite and Mobile Communication Syste	ms (TSN	, WN, C	MC, SC)
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- **PE Professional Ethics**
- ED&IC Electronic Devices and Integrated Circuit. (ED, EC, LIC)
- CS & CA Control System and Circuit Analysis. (CS, AUTO CS, NAS)
- Digital & VLSI Digital System Design and VLSI (DSD, VLSI)

- SIP Signal & Image Processing (SS, DSP, DIP)
 EMF & MW Electromagnetic Field and Micro Wave (MW, EMF, TLWG, AWP)
 Instrumentation- M &I, Medical Electronics
 ADCS Analog and Digital Communication Systems (ACS, DC, OFC)
- ☐ EMSD Embedded System Design (MP & MC, MC & RISC, CHI, EMBEDDED & RTS)

Department R&D Verticals

Image Processing	Signal Processing	RF and Microwave	Embedded Systems
		Communication systems	
 Medical Image Processing Document Image Processing Image Processing for agriculture Image Processing for fabric defect detection Weed detection in agriculture field Noise background removal in UB services Digital encoding system for Tamil character in palm leave manuscript Image Processing for wireless Transmission 	 Signal acquisition and conditioning Signal processing applications Biological signal analysis Audio signal processing 	 Wireless RF monitoring devices in medical applications Mobile aircraft tracking system RF weather monitoring system. QoS measurement of Zigbee home automation. Zigbee based industrial automation RF security and privacy research 	 High speed design Thermal design EMI &EMC Embedded programming (C, C++) Device drivers Embedded operating system Porting of OS Sensors Interfacing with micro processor and micro controller Analog and Digital design microprocessor and micro controller & system design
Faculty Incharge-	Faculty Incharge-	Faculty Incharge-	Faculty Incharge-
Prof. T. Shanthi	Prof. M. Senthil Vadivu	Prof. A.B. Ahadit	Prof. S. Deepa
Faculty members involved	Faculty members	Faculty members involved	Faculty members involved
Dr. R.S. Sabeenian	involved		Dr. K. Anguraj
Prof. M. Jamuna Rani		Dr. R.VinodKumar	Prof. A.P. Jaya Krishna
Dr. S. Vijayalakshmi Prof. K. Manju	Dr. K. R. Kavitha	Mrs.V.Meenakshi	Prof. A.B. Ahadit
Dr. B. Thiyaneswaran Dr. M.E. Paramasivam	Prof.M.Amudha	in 3. v. neenaksiii	TIOI. A.D. Allault
Prof. P.M. Dinesh	Prof.R.Anand		
Prof.R. Gayathri Prof. Eldho Paul	Prof.S.RamKumar		

Prof.R.Anand		

FPGA based VLSI Design	Nano Electronics	Wireless Networks	PCB Design and Development
Nano Electronics	Nano Synthesis and	> Hand off in cellular	High speed design
> Low power VLSI	characterization	networks	> Flexible PCB
> Testing of VLSI Circuits	> Nano Plating	> WSN in agriculture	> EMI Interference
System on chip	> Nano device fabrication	applications	Electro static discharge
	> Material characterization	> Design of Antenna in	
	> Quantum Electronics	Long term evaluation	
	Nano Coating	➤ Biomedical applications	
		MANET Security Protector	
		Security ProtocolsWireless architecture	
		> GSM	
		> 2G, 3G, 4G, 5G	
		> PAN, Bluetooth, Zigbee,	
		Wifi, Wimax	
Faculty Incharge	Faculty Incharge	Faculty Incharge	Faculty Incharge
Dr. N. Sasirekha	Dr. K.R. Kavitha	Dr. R. Vinod Kumar	Prof. A. Ayub Khan
Faculty members involved	Faculty members involved	Faculty members involved	Faculty members involved
Dr.B. Vasumathi	Dr. S. Jayapoorani	mvoiveu	Prof. S. Sree Southry
Prof. J. Harirajkumar		Prof.J.P.Senthilkumar	Prof.N.S. Yoganathan
Prof. V. Meenakshi		Dr. G. Ravi	_
Prof.Imaculate Rosaline		Prof. P. Priya	
Prof. M. Susaritha		Prof. T. Prema Kumari	
Prof. A.P. Jaya Krishna Prof. K. Saranya		Prof. A. Sangeetha Prof. D.P. Sangeetha	

Prof.P.Vivek karthick		Dr. S. Vijayashaarathi	
	,		

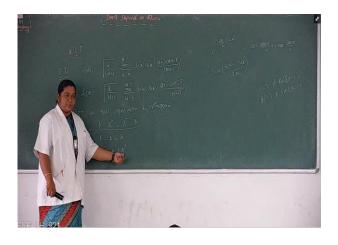
5.6Innovations by the Faculty in Teaching and Learning (10)

- Use of modern teaching aids like LCD projectors, lecture capturing system (LCS), Wireless Keyboard and mouse, Wireless Presenter, USB wireless pen mouse, Wi-Fi enabled laptops are usually employed in classrooms and other student learning environments.
- Department encourages academic discussions between faculties and students using black board and faculties shares academic study material using it.
- > Department has introduced mini projects in the curriculum.
- > Usage of Role play, Model Demo, Charts etc. during teaching learning process.
- > Online live lecture have been conducted in collaboration with university of Waterloo
- > Team teaching for analytical subjects
- Expert video subject lectures delivered by the various eminent resource persons are available in the digital library and it facilitates the faculty and students to utilize E-Tutorials of NPTEL, MOOCs access E-Journals, Video Conference room, etc.
- > Faculty members use department library, digital library and other Open Source platforms to enhance their teaching skills.
- ➤ The faculty members are encouraged to participate in short term courses, staff development programs and workshops on advanced topics to keep pace with the advanced level of knowledge and skills.
- > Over the past years the faculties have been participating /presenting papers in national/international conferences and publish their articles in national/international journals to enrich their knowledge.

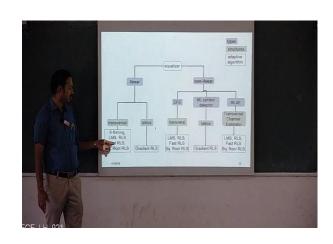
LECTURE CAPTURE SYSTEM

- Lecture Capture system is an automated audio-video recording solution for class room lectures.
- It provides access to classroom video lectures and activities in online.
- Students access the recorded video lectures and other materials from anywhere through laptops, tablets and Android platform.
- Achieve a deeper and more current understanding.
- Focus on understanding the class rather than taking notes.
- Availability of all contents at one place.
- Students can post questions anytime through discussion forum.
- Content Catalog It consist of all the courses that are being taught in college on lecture capture platform.
- Heat Map Check out which portions of the lecture are most exciting and are been watched the most.

Lecture capturing system (LCS)



LCS with projector



LCS MIC



LCS Camera



Black board

- It is a common application which is used by students and faculty of Sona College of Technology.
- This allows students to submit the assignments online.
- Submitting assignments online with in a particular date enhance time management.
- Online evaluation of the assignment is also available which assigns the marks as and when the assignment is submitted.
- Faculty can post the required reference books on the black board which is much useful for the students during the examination.
- It is also used to attend the online quiz given by the faculty members.
- Notification is given when the assignment is posted.
- It also alerts students when the due date for the submission of assignment is reached.

5.7. Faculty as participants in Faculty development/training activities/STTPs (15)

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty/faculty development program: 3 Points
- Participation>5 days Faculty/faculty development program:5 points

Table B.5.7

S. No.	Name of the Staff	CAY 17-18	CAY 16-17	CAYm1 15-16
1	Dr. R.S. Sabeenian	5	5	5
2	Dr. R. Vinod Kumar	1	3	3
3	Prof. J.P. Senthil Kumar	-	-	3
4	Prof. S. Deepa	5	-	3

5	Dr. K.R. Kavitha	5	-	3
6	Dr. N. Sasirekha	5	5	5
7	Prof. J. Harirajkumar	5	5	3
8	Ms. M. Jamuna	5	-	3
	Rani			
9	Ms. T. Shanthi	5	3	5
10	Dr. K. Anguraj	5	5	3
11	Dr. S. Jayapoorani	5	3	3
12	Dr. G. Ravi	5	5	-
13	Ms. P. Priya	-	5	3
14	Ms. S.	5	3	3
	Vijayalakshmi			
15	Ms. K. Manju	-	3	5
16	Ms. M. Senthil	5	3	3
	Vadivu			
17	Ms. T. Prema	3	-	3
	Kumari			
18	Ms. A. Sangeetha	3	5	3
19	Dr. B.	5	5	3
	Thiyaneswaran			
20	Mr. M.E. Paramasivam	-	3	3
21	Ms. V. Meenakshi	5	5	5
22	Mr. S. Sree	-	3	3
	Southry			
23	Mr. N.S.	-	3	3
	Yoganathan			
24	Ms. D.P. Sangeetha	5	3	3

25	Ms. M. Susaritha	5	5	3				
26	Ms. A.P. Jaya	5	5	3				
	Krishna							
27	Mr. A. Ayub Khan	-	-	3				
28	Mr. P.M. Dinesh	5	-	3				
29	MS.A.Geethalaksh	-	-	-				
	mi							
30	Ms. S.	-	5	5				
	Vijayashaarathi							
31	Mr. A.B. Ahadit	-	-	-				
32	Ms. K. Saranya	-	5	-				
33.	P.Vivek Karthick	-	-	-				
34	R.Anand	3	-	-				
35.	S.Ramkumar	5	-	-				
36	Eldho Paul	3	-	-				
Sum		102	105	91				
RF=	No of faculty							
requi	red to comply with	44	40	35				
15:19	student –faulty ratio							
as pe	r 5.1							
Assessment=3*(sum/0.5		13.9	15.75	15.6				
RF)								
	15							

5.8. Research and Development (75)

Academic research includes research paper Publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

Number of quality Publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)

5.8.1. Academic Research(20)

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

- Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.(15)
- Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute(5)

All relevant details shall be mentioned

ACADEMIC YEAR	SCI	SCOPUS	ICI	CITATION	BOOKS PUBLISHED
2017-2018	9	3	3	1120	-
2016-2017	4	7	18	1002	-
2015-2016	-	13	7	879	7

S. No.	Name of the faculty		20	17-2018	8		2016-20	17	20	015-201		
		No. of Publicati	ons	Citation Index	Chapters in book	No. of Publicati	Citation Index	Chapters in book	No. of Publicati	Citation Index	Chapters in book	H-Index
1.	Dr. K.R. Kashwan	-		605	-	3	586	-	10	561	2	10
2.	Dr. R.S. Sabeenian	5		432	-	4	372	-	2	305	4	9
3.	Prof. J.P. Senthilkumar	1		-	-	1	-	-	-	-	-	-
4.	Dr. K.R.Kavitha	1		3	-	-	3	-	-	3	-	1
5.	Dr. N. Sasirekha	-		22	-	-	18	-	2	1	-	2
6.	Ms.M.Jamuna Rani	1		-	-	-	-	-	-	-	-	-
7.	Ms.T.Shanthi	-		-	-	1	-	-	-	-	-	-
8.	Dr. G.Ravi	-		29	-	1	23	-	1	9	1	3
9.	K.Manju	1		-	-	1	-	-	-	-	-	-
10.	T.Premakumari	1		-	-	2	-	-	-	-	-	-
11.	Ms. S. Vijayalakshmi	-		-	-	-	-	-	1	-	-	-
12.	Mr.P.M.Dhinesh	1		29	-	-	-	-	-	-	-	3
13.	Mr.P.Vivek karthick	1										
14.	Dr.B.Thiyaneswaran	1		13			10			9		2
15.	Ms.P.Priya	1										
	Total	14		1133	-	13	1012	-	16	888	7	30

SCI INDEXED JOURNALS June 2017 - May 2018

S.No	Author	Title	Vol No.	Issue No.	Year	Page.No.	Publisher	Impact Factor
1	K.Manju R.S.Sabeenian	Robust CDR Calculation for glaucoma identification	-	Special	July 2017	1-3	Biomedical Research ISSN: 0970-938X DOI: 0.4066/biomedicalresearch. 29-18-767.	Scopus, Web of science, Thomson Reuters IF 0.36
2	B.Murali Babu P.Shyamala S.Saravanan K.R.Kavitha	Fabrication and Performance Estimation Of Dye Sensitied Solar Cell Based On Cdse/Zno Nano Particles	28	14	July 2017	10472- 10480	Journal of Materials Science.Springer ISSN: 0022-2461 (Print) 1573-4803 (Online) DOI: 10.1007/BF00595764	Scopus, Web of science, Thomson Reuters IF 2.54
3	A.Murugan R.S.Sabeenian	An efficient and automatic glioblastoma brain tumor detection using shift-invariant shearlet transform and neural networks	online	online	August 2017	1-11	International Journal of Imaging Systems and Technology ISSN: 08999457, 10981098. DOI: 10.1002/ima.22127.	Scopus, Web of science, Thomson Reuters IF 0.78

4	Murugappan R.S.Sabeenian	Texture based medical image classification by using multi-scale gabor rotationinvariant local binary pattern (MGRLBP)	online	online	Nov 2017	1-14	Cluster Computing,Springer ISSN: 1386-7857 (Print) 1573-7543 (Online) DOI: 10.1109/MCSE.2005.28.	Scopus, Web of science, Thomson Reuters IF 2.04
5	R.S.Sabeenian P.M,Dinesh	Comparative analysis of zoning approaches for recognition of Indo Aryan language using SVM classifier	online	online	Nov 2017	1-8	Cluster Computing,Springer ISSN: 1386-7857 (Print) 1573-7543 (Online) DOI: 10.1109/MCSE.2005.28.	Scopus, Web of science, Thomson Reuters IF 2.04
6	T.Premakumari M.Chandra sekaran	Soft computing approach based malicious peers detection using geometric and trust features in P2P networks	online	online	Jan 2018	1-6	Cluster Computing,Springer ISSN: 1386-7857 (Print) 1573-7543 (Online) DOI: 10.1109/MCSE.2005.28.	Scopus, Web of science, Thomson Reuters IF 2.04
7	T.Yuvaraja R.S.Sabeenian	Performance analysis of medical image security using steganography based on fuzzy logic.	online	online	March 2018	1-7	Cluster Computing,Springer ISSN: 1386-7857 (Print) 1573-7543 (Online) DOI: 10.1109/MCSE.2005.28.	Scopus, Web of science, Thomson Reuters IF 2.04

8	M.Jamuna Rani C.Vasantahnayaki	Shape adaptive DCT compression for high quality surveillance using wireless sensor networks.	online	online	March 2018	1-8	Cluster Computing,Springer ISSN: 1386-7857 (Print) 1573-7543 (Online) DOI: 10.1109/MCSE.2005.28	Scopus, Web of science, Thomson Reuters IF 2.04
9	J.P.Senthil kumar M.Chandrasekaran	A joint local short scheduling mechanism for a successful MIMO- OFDM Communication systems	online	online	March 2018	1201- 1218	Wireless Pers Commun Springer ISSN: 1572-834X, 0929- 6212. DOI: 10.1007/s11277- 016-3729-3.	Scopus, Web of science, Thomson Reuters
10	M.Naveenraj P.Vivek karthick S.Karthick	Traffic analysis using magnet in wireless sensor network	118	20	Special 018	431-440	International Journal of pure and applied mathematics ISSN: 13118080, 1314- 3395 DOI: 10.12732/ijpam.v115i5.4	Scopus
11	D.Sandhiya, B.Thiyaneswaran	Extraction of dorsal palm basilica and cephalic hand vein features for human authentication system					IEEE WISPNET 2017 Conference	Scopus

12	P.Priya	Detection and	4	-	2017	4213-	Materials Today	Scopus
	J.Gowdami	measurement of Nuclear				4218	proceedings.	
	V.Roshini	Radiations					Science Direct	
	G.Sinthanai Selvi						Elsevier	
							•	

June 2016 -May 2017

S.No	Author	Title	Volume No.	Issue No.	Year	Page.No.	Publisher	Impact factor
1	Lavanya.S r.R.S.Sabeenian	WBM- White Black Mass Estimation Technique Based Iris Recognition for Improved Biometric Authentication	24	10	August 2016	100-120	Transylvanian Review ISSN:12211249 DOI: 10.11648/j.ajaf.	Thomson Reuters
2	S.Ponlatha r.R.S.Sabeenian	Multi Attribute Feature Approximation Based Snapshot Generation and Video Compression Using Fractional Wavelet Transform"	24	10	August 2016	170-182	Transylvanian Review ISSN:12211249 DOI: 10.11648/j.ajaf.	Thomson Reuters
3	K.Vidthyavathi r.R.S.Sabeenian	Neighbour Block Difference Vector (NBDV) Based Motion Estimation and Self Occlusion Detection in Video Compression	24	10	August 2016	73-95	Transylvanian Review ISSN:12211249 DOI: 10.11648/j.ajaf.	Thomson Reuters

4	J.P.Senthil kumar & M.Chandrasekaran	An enhanced multi-channel bacterial foraging optimization algorithm for MIMO communication system.	104	4	December 2016	608-623	International Journal of Electronics Taylor and Francis ISSN: 13623060, 00207217	Scopus, Web of science, Thomson Reuters
8	Shermin.S K.R.Kashwan	Enhanced quality of service in mobile sensor networks using extended finite state machine model architecture	10	3	June 2016	73-80	International Journal of Digital content technology and its applications ISSN: 1975-9320	Scopus IF 0.06
15	Gowrishankar.J K.R.Kashwan	Design of efficient viterbi decoder for multicarrier system	11	4	Sep 2016	14-20	Journal of Convergence Information Technology ISSN: 2233-9299, 19759320	Scopus IF 0.09
16	Loganayaki.T K.R.Kashwan	An extended bilateral filter for speckle noise reduction in ultrasound kidney image	7	3	Sep 2016	13-20	Journal of Next Generation Information Technology ISSN: 2233-9388	Scopus
21	T.Premakumari M.Chandrasekaran	R3-SVD: An efficient R3 optimization technique for improved video streaming using singular value decomposition and PSO approach in peer to peer networks	24	7	Dec 2016	2226- 2234	Middle –East Journal of scientific Research ISSN: 1990-9233 DOI: 10.5829/idosi.mejsr	Scopus IF 0.36

23	T.Premakumari M.Chandrasekaran	Bandwidth distribution algorithm based DDR scheduler with route selection for real time vodeo streaming in peer to peer networks	15	6	Dec 2016	1139- 1145	Asian Journal of Information Technology ISSN: 1682-3915 (Print) 1993-5994 (Online).	Scopus IF 0.35
28	T.Shanthi R.S.Sabeenian A.Surendar	An automated detection of Microaneursym To Facilitate Better Diagnosis Of Diabetic Retinopathy	14	1	March 2017	483-488	Bio sciences Bio Technology Research, Asia ISSN: 0973-1245	Scopus IF 0.2
29	K.Manju R.S.Sabeenian	A review on optic disc and cup segmentation	10	1	March	373-379	Bio medical and pharmacology journal ISSN: 2456-2610	Scopus IF 0.17

June 2015 -May 2016

S.No	Author	Title	Volume	Issue	Year	Page.	Publisher	Impact
			No.	No.		No.		factor
1.	Velu C. M. and	ANN Based Market	10	1	Jan 2015	58-66	Journal of	Scopus
	K. R. Kashwan	Segmentation Model of					Convergence Information	SNIP:
		Customer Mapping to					Technology	1.071
		Geographical Location in ICT					ISSN: 2233-9299,	
		Enabled Smart Cities					19759320	
2.	G. Selvaraj and	Reconfigurable Adaptive	8	12	June	1-9	International Journal	Scopus
	K. R. Kashwan	Routing Buffer Design for			2015		of Science and	SNIP: 1.3

		Scalable Power Efficient Network on Chip					Technology ISSN:2321 - 919X	
3.	Thirumalai T., Kashwan K. R	New Reader to Reader Anti- Collision Protocol for Mobile and Dense RFID Reader Environment: A TDMA based Approach	7	4	July 2015	10-21	International Journal of Advancements in Computing Technology ISSN:20058039	Scopus SNIP: 0.966
4.	Ravi G. and Kashwan K. R.	Performance Analysis Of Energy Aware Zone Routing Protocol Using Span	37	1	Sep 2015	1-6	International Journal of Computers and Applications ISSN:1206212	Scopus SNIP: 0.455
5.	Loganayagi T. and Kashwan K. R	A Robust Edge Preserving Bilateral Filter for Ultrasound Kidney Image	8	23	Sep 2015		Indian Journal of Science and Technology ISSN:	Scopus SNIP 0.987
6.	Sasirekha N. and Kashwan K. R.,	Improved Segmentation of MRI Brain Images by Denoising and Contrast Enhancement	8	22	Sep 2015	1-7	Indian Journal of Science and Technology ISSN: 0974-6846 0974-5645 DOI: 10.17485/ijst	Scopus SNIP 0.987
7.	Loganayagi T. and Kashwan K. R	An Analysis of Speckle Reduction in Ultrasound Kidney Images by Adaptive Bilateral Filter	9	5	Sep 2015		International Journal of Digital Content Technology and its Applications ISSN: 1975-9320 1975-9339	Scopus SNIP: 0.989
8.	K.Vidyavathi Dr.R.S.Sabeenian,	Certain Investigations on video streaming and Frame rate classification for multimedia	67	3	Sept 2015	547-553	Journal of Theoretical and Applied Information	Scopus 0.320

		Applications.					Technology ISSN: 1817-3195 1992-8645	
9.	S.Lavanya Dr.R.S.Sabeenian,	Novel Segmentation of Iris Images for Biometric Authentication Using Multi Feature Volumetric Measure, Research	11	4	Oct 2015		Journal of Applied Sciences, Engineering and Technology ISSN: 2040-7467	Scopus 0.5
10.	Shermin S. and Kashwan K. R	An EFSM Based Fault Detection Model for Wireless Sensor Networks	10	6	Nov 2015		Journal of Convergence Information Technology ISSN: 2233-9299, 19759320	Scopus SNIP: 1.071
11.	Sasirekha N and K R Kashwan	Gradient Based Bilateral Filtering in Wavelet Domain for Removing Rician Noise	10	2	Mar 2016	61-77	International Journal of Digital Content Technology and in application ISSN: 1975-9320 1975-9339	Scopus SNIP: 0.989
12.	Shermin S. and Kashwan K. R	Malicious Node Isolation Using Quality Secured Extended Finite State Machine Architecture in Wireless Sensor Networks	7	6	Mar 2016		International Journal of Advancements in Computing Technology (IJACT) ISSN: 20058039	Scopus SNIP: 0.966
13.	S VijayaLakshmi And S Padma	Hybrid SVD based Hilbert Huang transform technique for Abnormality detection in Brain MRI images	12	6	Mar 2016	686-695	Research Journal of Applied sciences, Engineering and Technology ISSN: 20407459, 20407467	Scopus 0.654

Ph.D guided/Ph.D awarded during the assessment period while working in the institute (5)

List of Ph.D Supervisor

S.No	Name of Ph.D Supervisor	Name of the University
1	Dr.R.S.Sabeenian	
2	Dr.K.R.Kashwan	
3	Dr.K.R.Kavitha	Anna University, Chennai
4	Dr.G.Ravi	
5	Dr.B.Vasumathi	

List of Faculties awarded Ph.D

S.No	Name of the	University	Year of award
	faculty		of Ph.D
1	Dr.R.S.Sabeenian	Anna	2009
_	Dr.ix.3.3abccman	University,Chennai	2003
2	Dr.K.R.Kashwan	Tezpur University,	2007
2	DI.K.K.Kasiiwaii	Assam	2007
3	Dr.B.Gopi	Anna	2014
3	ы.в.дорг	University,Chennai	2014
4	Dr.D.Jayanthi	Anna	2013
7	Di .D.3ayantin	University,Chennai	2015
5	Dr.S.Jayapoorani	Anna	2013
	Dr. S.Sayapooram	University,Chennai	2013
6	Dr.K.R.Kavitha	Anna	2014
	Dimmarkina	University,Chennai	2011
7	Dr.G.Nirmala Priya	Anna	2014
,	D. G. William Triyu	University,Chennai	2011
8	Dr.B.Vasumathi	NIT,Trichy	2014

9	Dr. B. Thiyaneswaran	Anna University,Chennai	2014
10	Dr. R. Vinod Kumar	Anna University,Chennai	2015
11	Dr. K. Anguraj	Anna University,Chennai	2015
12	Dr. G. Ravi	Anna University,Chennai	2016
13	Dr. N. Sasirekha	Anna University,Chennai	2016
14	Dr. S. Vijaya Lakshmi	Anna University,Chennai	2017
15	Dr.M.E.Paramasivam	Anna University,Chennai	2018

List of Scholars awarded Ph.D

S.No	Name of the faculty	University	Year of award of Ph.D
1.	Selvaraj G.	Anna University,Chennai	2015
2.	C. M. Velu	Anna University,Chennai	2015
3.	Balakrishnan S. G.	Anna University,Chennai	2015
4.	Karthik S.	Anna	2015

		University,Chennai	
5.	Thirumalai T.	Anna	2016
		University,Chennai	
6.	G. Ravi	Anna	2016
		University,Chennai	
7.	N. Sasirekha	Anna	2016
		University,Chennai	
8.	Loganayaki T.	Anna	2016
		University,Chennai	
9.	Dattathreya K. A.	Anna	2016
		University,Chennai	
10.	Shermin S.	Anna	2017
		University,Chennai	
11.	Varatha Guru.M	Anna	2018
		University,Chennai	
12.	M.E.Paramasivam	Anna University,Chennai	2018
13.	S.Ponlatha	Anna	2018
		University,Chennai	

Supervisor: Dr.R.S.Sabeenian

I	5. N O	NAME	•	DEGRE E		FACUL TY	REG YEAR		REG SESS	STAT US
1	Var	adhaguru	Ph.I	o. Id	e	2011	JA	N	Com	pleted
2	Para	masivam. M.E	Ph.I	o. Id	e	2011	JA	N	Com	pleted
3	P	onlatha	Ph.I	o. Id	e	2010	JA	N	Com	pleted
4	Yu	varaja T	Ph.I	O. Id	e	2011	JA	N		nopsis mitted
5	An	andan P	Ph.I	D. Id	e	2011	JA	N	Thesis	Submitted
6	Ga	yathri R	Ph.I	O. Id	ce	2011	JA	N	Thesis	Submitted
7	M	lanju K	Ph.I	O. Id	e	2011	JA	N		nopsis mitted
8	Sł	nanthi T	Ph.I	O. Id	e	2011	JA	.N	•	nopsis mitted
9	Dir	nesh P M	Ph.I	O. Id	e	2012	JA	.N	•	nopsis mitted
10	Mι	ırugan A	Ph.I	O. Id	ce	2010	JU	JL	Thesis	Submitted
11	Vid	yavathi K	Ph.I	O. Id	ce	2010	Jl	JL	Thesis	Submitted
12	Muru	ıgappan V	Ph.I	o. Id	e	2010	Jl	JL	Thesis	Submitted
13	La	vanya S	Ph.I	o. Id	e	2010	Jl	JL	Thesis	Submitted

Supervisor: Dr.G.Ravi

S.N O	NAME	DEGREE	FACULTY	R E G Y E A R	REG SES S	STATUS
1	Vimalnath S	Ph.D.	Ice	2017	JUL	Course Work
2	Rajamanickam G	Ph.D.	Ice	2017	JUL	Course Work
3	Sathish Kumar S	Ph.D.	Ice	2017	JUL	Course Work
4	Sankar Ganesh S	Ph.D.	Ice	2017	JUL	Course Work
5	Sekar R	Ph.D.	Ice	2018	JAN	Course Work
6	Ravishankar Kandasamy	Ph.D.	Ice	2018	JAN	Course Work
7	Mahaboob John Ym	Ph.D.	Ice	2018	JAN	Course Work
8	Nagalalli G	Ph.D.	Ice	2018	JAN	Course Work

Supervisor: Dr.K.R.Kashwan

p								
S.NO	NAME	DEGREE	FACULTY	REG YEAR	REG SESS	STATUS		
1	Amasavalli.A	Ph.D.	Ice	2009	JUL	Completed		
2	Bala Krishnan.S.G	Ph.D.	Ice	2008	APR	Completed		
3	Karthick.S	Ph.D.	Ice	2008	APR	Completed		
4	Velu.C.M	Ph.D.	Ice	2009	JUL	Completed		
5	Thirumalai.T	Ph.D.	Ice	2008	APR	Completed		
6	G.Ravi	Ph.D.	Ice	2008	APR	Completed		
7	Dattatherya.K.A	Ph.D.	Ice	2008	APR	Completed		
8	Selvaraj.G	Ph.D.	Ice	2009	JUL	Completed		
9	Loganayagi	Ph.D.	Ice	2008	APR	Completed		
10	N.Sasirekha	Ph.D.	Ice	2008	APR	Completed		
11	Shermin.S	Ph.D.	Ice	2008	APR	Completed		
12	S.Swapna Kumar	Ph.D.	Ice	2009	JUL	Completed		

5.8.2 Sponsored Research (20)

Funded research from outside:

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding Amount (Cumulative during last three academic years starting from CAYm1):

Amount > 50 Lacs - 20 Marks,

Amount > 40 and \leq 50 Lacs - 15 Marks,

Amount > 30 and \leq 40 Lacs - 10 Marks,

Amount \geq 15 and \leq 30 Lacs - 5 Marks,

Amount < 15 Lacs - 0 Marks

S.No			Principal Investigator (s) (PI) & (Co -PI)	Grant in lakhs	Period	Status
1	Development of Digital Encoding System for Tamil Characters in Palm Leaf Manuscripts	AICTE CAYT	PI -Dr.R.S.Sabeenian	3.30	2015- 2018	On going
2	Centre of Excellence for Fabric Defect Detection using Intelligent image analytics	DST - FIST	CO-PI Dr.R.S.Sabeenian Prof.T.Shanthi Prof.M.E.Paramasivam Prof.K.Manju Prof.P.M.Dinesh	42.58	2016- 2021	On going

3	ICT Interventions to Promote Entrepreneurship Development of Women SHGs in Salem District, Tamil Nadu through Rural Agricultural Support Centers (Agri BPOs)	DST - SEED	Co-Investigator Dr.R.S.Sabeenian	56.35	2016- 2019	On going
4	Pulse plating for silver anklet industry	DST - WTP	Co-Investigator Dr.S.Jayapoorani	33.00	2016- 2019	On going
5	A proof of concept for indoor navigation using real time image recognition algorithm	DST - TIDE	Co-Investigator Dr.R.S.Sabeenian Prof.M.E.Paramasivam	76.88	2018- 2021	On going

5.8.3. Development activities(15)

Product Development 2014-2017

S.No	Title of Product					
1	Hall sensor mounting flexible PCB design for BLDC motor (Sona SPEED -ISRO)					
2	PCB design for regulated power supply (5v/12v) (Sona Speed)					
3	PCB design for Testing board (Sona Speed)					
4	PCB design for MOSFET Bridge (Sona Speed)					
5	Long Range Wireless MIC					
6	Security Alert System					
7	Accident Announcement System					
8	Accident Control System					
9	Automatic head light dimmer					
10	Multiple overhead system automation					
11	Solar DC to DC Power systems					
12	Brightness based light adoptive system					
13	Railway signal automation using wireless communication					
14	Adaptive speed governor					
15	Intelligent autonomous ironing machine using PIC microcontroller					
16	Milk monitoring system for early detection of microbial activity					

Pulse plating on copper Electrode using zirconium di boride being used for the manufacturing of watches

Hall sensor mounting flexible PCB design for BLDC motor (Sona SPEED -ISRO)

A flexible PCB is designed with hall sensors to monitor the temperature of the BLDC motor.

PCB design for regulated power supply (5v/12v) (Sona SPEED)

A 5V/12V power supply PCB is designed in a single board for various testing purpose.

PCB design for MOSFET Bridge (Sona SPEED)

A motor drive circuit is designed with MOSFET Bridge to drive the BLDC motors.

Long Range Wireless mic

The Embedded system with mobile communication is used to announce emergency situation to the nearby public place. In case of emergency, the person can use their secret key to connect the phone Mic to the Public audio system to announce the situations directly to all surrounding people. This system specially useful at the time of theft.

Security Alert System

The system is used to alert the security on random time interval. The alertness of the security person can be verified from the video recorded.

Accident Announcement System

Automatically announce the occurrence of accident within few seconds to the nearest ambulance and to the hospitals.

Accident Control System

The system monitors the obstacles in front of the vehicles and alert the driver to reduce speed.

Automatic head light dimmer

Automatically dims the head light of vehicle to avoid accident due to high intensity of light during night hours.

<u>Pulse plating on copper Electrode using zirconium di boride being used for the manufacturing of watches</u>

The copper electrode die was plated with zirconium di boride. The various parameters such as on time, off time, frequency and time were identified and optimized for effective plating with the size less than 5 micrometer. Similarly the optimization of the bath was also carried.

Research laboratories

S.NO	NAME OF THE LAB	HEAD
1	Sona Signal and Image Processing	Dr.R.S.Sabeenian
2	Sona VLSI systems and Communication Technology	Dr.N.Sasirekha

Sona Signal and Image PROcessing Research Centre (SonaSIPRO)

Sona SIPRO had its modest beginning on August 2009 under the manifestation of Most Revered Honourable President Dr.A.P.J.Abdul Kalam. Sona SIPRO has always tried to develop efficient algorithms to address socio-relevant problems.

Vision

- To be a pioneer in signal and image processing research.
- Try to use technological advancements for solving societal problems
- Become an internationally renowned centre for excellence in signal and image processing.

Objectives

- Apply various mathematical concepts and hence utilize them for image processing applications, thereby providing solutions for everyday societal problems.
- Collaborate with academic, industry and non-governmental organizations falling under the matching areas for carrying out competitive research.
- Develop algorithms pertaining to the area of signal and image processing and hence evaluate them on a real-time scenario.

Research Projects:

Completed Projects:

- Fabric Defect Detection in Handloom Cottage Silk Industries (Funded by AICTE under Research Promotion Scheme (RPS) F. No:8023/BOR/RID/RPS-108/2008-09 Dated 12-03-2009)
 - The prototype developed was to identify 10 major defects present in silk fabrics.
 - Multi-Resolution Combined Statistical Feature (MRCSF) method was developed for identification of defects
 - Markov Random Field Multi Resolution Combined Statistical Feature (MR-MRCSF) was an improvised algorithm developed for accurate identification of defects
- 2. Weed Detection using Multi-Resolution Analysis
 - An image processing technique to identify the presence of weed in a paddy field

- The developed Multi-Resolution algorithm was more efficient in identifying PasteriumHystophoresis, a common weed in paddy fields.
- The method developed was also capable of discriminating large, medium and small weeds in paddy fields.
- 3. Identification and counting of fertile pollen grains using Morphological operators

 The developed prototype has the capability to count the number of fertile and infertile
 pollen grains in a given microscopic image.
- 4. Disease Identification in Fruits

S.No	Year	Title of the Project	Agency & Scheme	Principal/ Co- Principal Investigator (PI)	Grant in Rs				
1.	2015- 2016	Intelligent vision system for detection of foreign objects in dry seeds	Vee Technologies	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam Prof.P.M.Dinesh	8,50,000				
2.	2015- 2018	Development of Digital Encoding System for Tamil Characters in Palm Leaf Manuscripts	AICTE CAYT	Dr.R.S.Sabeenian	3,30,000				
3.	2013- 2016	Weed Detection using Image Processing	Chockalinga m Trust	Dr.R.S.Sabeenian and Team	7,00,000				
4.	2013	Intelligent Toll Gate using RFID	TNSCST - Chennai	Dr.R.S.Sabeenian	10,000				
5.	2012- 2014	Preparation of Detailed Project report for the Modernization of Army Base Workshop at Delhi, Meerut,	Consultancy	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam &P.M.Dinesh	3,00,000				
6.	2012- 2014	Identification and counting of Fertile Pollen grains in flowers	KEREKHAN ESTATE	Dr.R.S.Sabeenian and Team	6,00,000				
7.	2010- 2011	Digitalization of Handwritten Classical Tamil Language	TNSCST - Chennai	Dr.R.S.Sabeenian	6,000				
8.	2009- 2012	Fabric Defect Detection in Handloom Cottage	AICTE (RPS) – New Delhi	Dr.R.S.Sabeenian & Mr.M.E.Paramasiv	3,00,000				
	Silk Industries am TOTAL								

- The developed system was able to identify defects present in Tomato and Apple
- Morphological and Multi-Resolution techniques were used for identifying the type of defect on the fruit.

Grants Details

Ongoing projects

S.No	Year	Title of the Project	Agency & Scheme	Principal/ Co- Principal Investigator (PI)	Grant in Rs
1.	2018 - 2021	A proof of concept for indoor navigation using real time image recognition algorithm	DST-TIDE	Co PI :Dr.R.S.Sabeenian Prof.M.E.Paramasivam	76,87,948
2.	2015- 2017	Intelligent Vision Analytics System for defect detection in lentils	Nanolytix	Dr.R.S.Sabeenian Prof.M.E.Paramasivam Prof.P.M.Dinesh	4,50,000
3.	2016 - 2019	ICT Interventions to Promote Entrepreneurship Development of Women SHGs in Salem District, Tamil Nadu through Rural Agricultural Support Centers (Agri BPOs)	DST - SEED	Co-PI :Dr.R.S.Sabeenian	56,35,204
4.	2016 - 2021	Centre of Excellence for Fabric Defect Detection using Intelligent image analytics	DST - FIST	Team Head :Dr.R.S.Sabeenian Prof.T.Shanthi Prof.M.E.Paramasivam Prof.K.Manju Prof.P.M.Dinesh	42,58,925
	ı	Т	OTAL	1	1,80,32,077

Grants received for organized workshop/FDP/STTP/Guest Lecture

S.No	Year	Title of the Project	Agency	Co-ordinators	Grant in Rs
1	2016	AICTE-INAE Distinguished Visiting Professorship Scheme	AICTE & INAE	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam Prof.P.M.Dinesh	DA ,TA& Honorarium of expert member funded by AICTE & INAE
2	2015	AICTE-INAE Distinguished Visiting Professorship Scheme	AICTE & INAE	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam Prof.P.M.Dinesh	DA ,TA& Honorarium of expert member funded by AICTE & INAE
3	2014	AICTE-INAE Distinguished Visiting Professorship Scheme	AICTE & INAE	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam Prof.P.M.Dinesh	DA ,TA& Honorarium of expert member funded by AICTE & INAE
4	2015- 2016	National Level workshop on "LabVIEW for Machine Learning of Images"	IETE – New Delhi	Dr.R.S.Sabeenian Prof.T.Shanthi& P.M.Dinesh	25,000
5	2014	National Level Workshop on Translation of Research in Image Processing to Clinical Image Based Diagnostic Procedures	IETE – New Delhi	Dr.R.S.Sabeenian Prof.T.Shanthi	50,000
6	2014	Recent Advancement & future scope of Research in Image Processing	AICTE FDP	Dr.R.S.Sabeenian and Team	4,50,000
7	2013	National Conference on Communication Signal & Image Processing NCCSIP'13 on 12.04.2013	IETE – New Delhi	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam Prof.T.Shanthi	50,000
8	2012	Workshop on "Research Opportunities for	IETE – New Delhi	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam	15,000

	8,10,000				
10	2014	FDP on Signals and Systems	IIT Kharagpur	Dr.R.S.Sabeenian Prof.M.E.Paramasi vam &P.M.Dinesh	1,50,000
9	2012	FDP on "Digital Signal Processing"	Anna University- Chennai	Dr.R.S.Sabeenian	70,000
		Digital Image Processing in today's Scenario"		&P.M.Dinesh	

Continuing Education

Period	Title	Co-ordinators	Amount in Rs	
13.12.2017 to 29.12.2017	Engineering application using LAB view and CLAD certification	Dr.R.S.Sabeenian Prof.P.M.Dinesh Prof.EldhoPaul	1,45,000	
11.09.2017 to 29.09.2017	Basic C Programming in Continuous Time and Discrete Time signals using GNURADIO	Dr.R.S.Sabeenian R.Anand P.M.Dinesh	21,750	
29.05.2017 to 03.06.2017	Digital Image Processing using OpenCV & Python	Dr.R.S.Sabeenian Prof.M.E.Paramasivam Prof.P.M.Dinesh	27,000	
TOTAL				

Achievements

- Dr.R.S.Sabeenian, received AICTE Career Award for Young Teachers (CAYT) for the project of Development of digital encoding system for Tamil Characters in Palm leaf Manuscripts for three years.(2015-2018)
- Dr.R.S.Sabeenian, received Shri P K Das Memorial Best Faculty Award –Senior category under ECE stream on 15.12.2015
- Dr.R.S.Sabeenian, received "ISTE Periyar Award" for Best Engineering College Teacher for the year 2012
- Dr.R.S.Sabeenian, received "IETE BimanBehari Sen Memorial Award" for outstanding contributions in the emerging areas of Electronics and Telecommunication with emphasis on R&D for the year 2011.
- Dr.R.S.Sabeenian, received "ISTE RajarambapuPatil National Award" for promising Engineering Teacher for Creative work done in Technical Education (Colleges) for the year 2010.
- Dr.R.S.Sabeenian, received "Best Faculty Award" for the Academic year 2009-2010 in the ECE/EEE Stream from the Nehru Group of Institutions on 15-12-2009. The Award was given amongst a competition of 400 and odd faculties in three states.
- Dr.R.S.Sabeenian, received "Best Research Paper Award" for the Research Paper

entitled as "Hand written Text to Digital Text Conversion using Radon Transform and Back Propagation Network (RTBPN)" Springer International Conference on Advances in Information and Communication Technologies ICT 2010 held on September 07-09,2010 at Cochin, India.

- Dr.R.S.Sabeenian, received "Best Research Paper Award" for the Research Paper entitled as "Multi Resolution Adaptive Video Streaming using Scalable Video Coding" IEEE International Conference on Advances in Communication, Network and Computing CNC 2010 held on October 04-05, 2010 at Calicut Kerala.
- Dr.R.S.Sabeenian and Prof.Dinesh received "Best Research Paper Award" for the Research Paper entitled as "Multi Format Scalable Media Decoder Implementation using OMAP3530" International Conference on Computational Intelligence and Computing Research (ICCIC'10) held on Dec 2010 at TCE, Coimbatore.
- Dr.R.S.Sabeenian and Prof.Dinesh received "Best Research Paper Award" for the Research Paper entitled as "Multi Format Scalable Media Decoder Implementation using Beagle Board" UGC Sponsored National Conference on Multimedia Signal Processing (NCMSP 11) held on Feb 16-17,2011 at Annamalai University.

SONA VLSI Comm

The center is started in the year 2005 with name VLSI and Photonics and later renamed as SONA VLSIComm in the year 2015.

Vision

 To achieve excellence in the area of FPGA based VLSI design for circuits, systems and modern high performance communications technology embedding artificial intelligence and IOT to create smart electronic solutions for the engineering problems.

Objectives

- To design, develop and realize intelligent electronics circuit and systems for industrial applications
- To develop modern ultra-high performance communication technologies for high speed data communications, sensor networks and IOT.
- To design, simulate and fabricate RF patch / strip antenna for compact and portable applications.
- To program configure FPGA based prototype models using embedded principles for electronic circuits at par with performance of ASIC circuit.
- Apply new principles for the frontier research areas of defense, agriculture, smart cities, energy optimization, IC integration with human body and artificial intelligence.
- This centre has 3 Ph.D holders and 12 Ph.D scholars. They published 50 International Journals, 3 national Journals and 22 national conferences.

Major Areas of Research

VLSI Circuits and Embedded Systems, Wireless Communication, Sensor Networks, Networks on Chip, Optical Communications, Patch/Strip Antenna.

In-house Ph.D Works

- Streaming of High definition video in Heterogeneous wireless networks
- Optimisation energy cluster based routing scheme for Mobile Adhoc network

Major Achievements

Publications - 90 International Journals, 94 International Conferences and 72 National Conferences

- Revenue Generated Rs 30.70 Lakh.
- AICTE Grant of Rs 11.50 Lakh for RPS scheme, Rs 5.00 Lakh for MODROBS
- $\bullet\,$ IIT Grant of Rs.64, 989 for Two week ISTE STTP on CMOS, Mixed Signal and Radio Frequency VLSI

Design.

- PICO Satellite Designed a Microstrip / Patch Antenna, completed successfully.
- Research papers presented in Singapore, China and Sri Lanka.

Future Plans

- To publish more research papers in SCI and Scopus indexed journals .
- Involve more students in R&D activities and finding solutions to technical problem related with the society.
- Concentrate on social related project linking with industry.
- To work for more funded projects.

Awards received by ECE Faculty members

ISTE PERIYAR STATE AWARD

ISTE RAJARAM BABU PATEL AWARD

SHRI PK DAS MEMORIAL BEST FACULTY AWARD

YOUNG FACULTY AWARD VIFFA



AICTE CAREER AWARD FOR YOUNG TEACHER (CAYT)



BEST FACULTY AWARD JUNIOR (NEHRU GROUPS)



BEST FACULTY AWARD SENIOR (NEHRU GROUPS)



IEEE & SPRINGER RESEARCH
PAPER AWARD





<u>Instructional Materials</u> <u>CCTV surveillance systems</u>

Smart Professional Surveillance System (PSS) User's Manual

Overview

Smart PSS is a software to manage small quantity security surveillance devices. It has the following features:

- View real-time video of several camera channels.
- View the playback video files from various cameras.
- Support multiple scheduled arms to realize auto PC guard.
- Support e-map
- Clearly view and manage all device locations.
- It supports video wall to monitor all cameras at the same time.
- It can create individual configuration files for each user.
- Support alarm indication features.

System Requirements

OS: Windows 2000/Windows XP/Windows 2003/Window Vista/Win7.

CPU: 2.4GHz or higher.

Display card: Independent car and support direct X 8.0c or higher.

Memory: 1GB or higher.

Displayer Resolution: 1024×768 or higher

Installation Steps

- 1) Double click "SmartPSS Setup.exe" to begin installation.
- 2) Select installation language from the dropdown list and then click OK button to go to Welcome interface.
- 3) Click next button to see License Agreement.
- 4) Check the accept dialogue box and then click next button to continue.
- 5) Check Smart PSS dialogue box and then click next button to see the installation path.
- 6) After selecting installation dialogue box, click next button to start the installation.
- 7) Click Finish button to complete the installation.

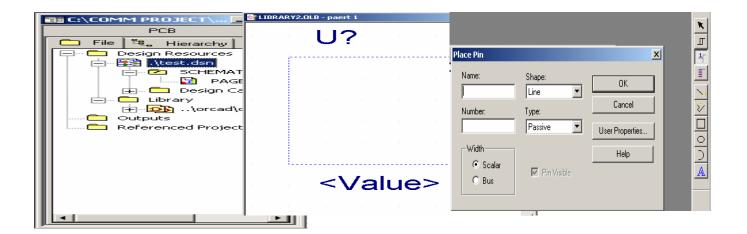


PCB system design

- This manual is to guide the reader about the Printed Circuit Board (PCB) design of a two layer PCB.
- The first step in the design is to familiarize the person with the OrCAD family, OrCAD
 Capture which is used to draw the schematic diagram, and also OrCAD Layout which
 is used for the actual layout design of the PCB.
- Once the circuit is made on PCB it is very hard to troubleshoot and change so it is recommended that the design is prototyped by constructing in a breadboard and tested before making the PCB.

Making a Symbol Making a new pin.

Making new component screen.



Working models /charts /monograms etc. Working models

S.No	Year	No of working
	i cai	models
1	2017-2018	89
2	2016-2017	32
3	2015-2016	23

2017-2018

1.	Sixth sense media Player
2.	Third eye for the blind
3.	Bus ticket control system
4.	Smart dustbin
5.	Automated power off system
6.	RFID based attendance system
7.	Power generation using speed breaker with auto street light
8.	Arduino based anti theft device
9.	Simple 100 Watt Inverter
10.	Smart door lock using Arduino for disabled person
11.	Heart beat monitoring system

12.	Automatic Temperature controlled motor using Arduino
13.	IR based security alarm using IC 555 Timer
14.	Accident detection system
15.	Password based circuit breaker system ensuring Lineman safety
16.	Automatic Railway gate controller using Arduino
17.	Automatic switching of home light using LDR with Arduino
18.	Face recognition system for office security using LabVIEW
19.	Hidden active cell phone detector using Arduino
20.	Sun tracking system using solar panel with Arduino
21.	Smoke detecting alarm circuit using MQ-2 gas sensor
22.	RF based automatic speed control of Vehicle
23.	Vehicle accident prévention system using eye blink sensor
24.	Emergency mobile charger using dc motor
25.	IR based home automation
26.	Person identification system
27.	Solar tracker device using arduino
28.	Automatic door light
29.	Generation of electricity using footsteps
30.	Accident collision controller
31.	Design and implementation of viterbi decoder using xilinx
32.	Portable USB charger
33.	Traffic controller for emergency services
34.	Design of digital code lock using vhdl
35.	Electronic eye
36.	Flourscent lamp recycling
37.	Mobile charger using sound energy
38.	Smart lighting system using bidirectional counters
39.	Friendly mobile chargers
40.	Engine locking system through alcohol detection using arduino
41.	Vibration alarm
42.	Mobile phone detector
43.	Underwater robotics using arduino
44.	Ic tester using arduino microcontroller
45.	Sewage cleaning robot
46.	Touch switch
47.	GSM based gas leakage indicator
48.	Power generation by using TEG plates
49.	GPS and GSM based self defense system for women safety
	1

50.	Security system using Labview and SMTP protocol
51.	Embedded systems in avoiding accidents at blind corners
52.	LPG gas leakage detection using Arduino and GSM
53.	Design of Traffic controller using Arduino and IR sensor
54.	E-voting machine using Arduino
55.	Vehicle number plate recognition system
56.	Automatic gate opening system using RFID
57.	Automatic rain sensing CAR wiper
58.	Smart trashcan using MQTT
59.	Smart auto using MQTT
60.	Visitor counter and control
61.	Swmart home and voice controlled car
62.	Vehicle accident detection using auto messaging facility
63.	Elephant detector
64.	Smart agriculture using IOT
65.	Wireless electronic notice board
66.	Child detection
67.	Ultrasonic voice based walking stick
68.	Ultrasonic ased blind path finder system
69.	Wireless electronic notice board using GSM
70.	Well water control and indicator using relay
71.	Touch switch
72.	Pipe cleaning robot
73.	Power demand
74.	Detection of blood vessels in eye using image processing
75.	Temperature controlled fan using Arduino
76.	Rain water alarm
77.	Noise filtering in ECG
78.	Controlling lights using web page
79.	Third eye for blind people
80.	To call and send message using GSM
81.	Alcohol detection ad engine lock system using Arduino
82.	Design implementation of viterbi algorithm using xilinx
83.	Wireless based office automation using Rf
84.	IoT and GSM based automatic control system
85.	Design and analysis of accurate and approximate 15-4 compressor for efficient power multiplier
86.	Servo motor control using Arduino

87.	Remote control for home appliances
88.	Anti theft petrol alarm
89.	Break failure indicator

2016-2017

	<u>2016-2017</u>
1.	RF based remote monitoring of sensor nodes using Arduino and BLYNK
2.	Arduino based digital thermometer using temperature sensor LM 35
3.	Arduino based fire alarm using IR sensor
4.	Speed control of DC motor using pulse width modulation
5.	Arduino based wireless electronic notice board using GSM
6.	Wireless power transmission in inductive coils using 555 timer
7.	Emergency mobile charger using mechanical force
8.	Mobile based control of home appliance using Arduino and IOT
9.	Ultrasonic based obstacle detector using Arduino
10.	Automatic washroom light switch using counter IC CD4017 and laser
11.	Home automation using DTMF
12.	Auto turnoff soldering iron rod circuit using IC 555 timer
13.	Lamp life extender by zero voltage switching using Arduino
14.	Automatic night lamp with morning alarm
15.	Peltier cell mobile charger using Arduino
16.	Piezo electric based power generation for alarm and led using IC555 timer
17.	Auto intensity controller using Arduino and LDR sensor board
18.	Arduino based security system using piezo electric sensor and 555 timer
19.	Single chip FM radio circuit
20.	Detection of hidden mobile phone activity using IC 3130
21.	Mobile based controlling of led lights in home using Arduino and IOT
22.	Vehicle brake alert system
23.	Mobile based smart class automation using IOT
24.	GSM based air quality monitoring system using PIC microcontroller
25.	Antisleep alarm for drivers using IR sensor
26.	Railway passenger safety system using PIC microcontroller
27.	Automatic water level control system using IC 555 timer
28.	Automatic railway gate control using Arduino
29.	Ultrasound distance meter using raspberry PI
30.	Intelligent switch using op-amp LM358
31.	Security alert using Arduino and GSM module
32.	Ultrasonic voice based alarm for blind
	<u> </u>

2015-2016

1.	Voice controlled robot using Arduino
2.	Arduino based lie detector using pulse sensor
3.	Automatic fan controller
4.	
	Traffic light control system using Arduino
5.	Human detection by live body sensor
6.	RFID based paid car parking system
7.	Visitor counter using IR sensor
8.	Firefighting robot
9.	Pc based electrical load control
10.	Laser audio transceiver using IC LM386
11.	Automatic streetlight controller using Arduino
12.	Ultrasonic based radar system in defense
13.	RF based remote control for home electrical appliances
14.	Voltage protection alarm
15.	PIR based security alarm circuit using IC UM3561
16.	Rain alarm sensor using IC 555 timer
17.	Clock with led pendulum and tick tock sound
18.	PC based wireless stepper motor using RF transmitter and receiver
19.	Solar mobile charger using IC 7805
20.	Automatic temperature based machine control
21.	Power saver circuit for home appliances using PIR sensor
22.	Password lock door alarm using Arduino
23.	Horn system for deaf people using RF transmitter and receiver

Charts

S.No	<u>Title of the Chart</u>
1	Architecture of 8085 Processor
2	Instruction set of 8085 Processor
3	Interfacing peripherals 8255A, 8257
4	Interfacing Peripherals 8279,8259
5	PCM Transmitter and receiver
6	AM Receiver Characteristics
7	Sampling and hold circuit
8	Architecture of TMS320C54 Processor

5.8.4. Consultancy (from Industry)(20)

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding Amount (Cumulative during last three academic years starting from

CAYm1): Amount >10 Lacs - 20 Marks,

Amount \leq 10 and \geq 8 Lacs – 15 Marks,

Amount < 8 and \geq 6 Lacs- 10 Marks, Amount < 6 and \geq 4 Lacs-5 Marks, Amount <

4 and \geq 2 Lacs - 2 Marks,

Amount <2 Lacs - 0 Mark

2017-2018

S.N o	Title of Consultanc Y	Name of Industry/Agen cy	Faculty in-charge	Amoun t in lakhs	Perio d	Status
1	Food safety analyzer: Intelligent Vision Analytics System for defect	Nanolytix Inc., Canada in Collaboration with Vee Technologies	Dr.R.S.Sabeenian Prof.M.E.Paramasiva m Prof.P.M.Dinesh	4.5	2017- 2018	Ongoin g

2015-2016

S.N o	Title of Consultan cy	Name of Industry/Agen cy	Faculty in-charge	Amoun t in lakhs	Perio d	Status
1	Food safety analyzer: Intelligent Vision Analytics System for	Nanolytix Inc., Canada in Collaboration with Vee Technologies	Dr.R.S.Sabeenian Prof.M.E.Paramasiv am Prof.P.M.Dinesh	8.5	2015- 2017	Complete d
2	To perform pulse plating using Zirconium di boride on copper	Titan Company Ltd	Dr.S.Jayapoorani	1.72	2015- 2016	Complete d

Continuing education

S.No	Year	Title of the Project	Agency	Coordinators	Grant in Rs
1.	2017	Two Week ISTE- STTP on CMOS, Mixed Signal And Radio Frequency VLSI Design	National Mission on Education through ICT(MHRD,G ovt. of India)	Dr.G.Ravi	65,289
2	2015- 2016	National Level workshop on "LabVIEW for Machine Learning of Images"	IETE – New Delhi	Dr.R.S.Sabeenian Prof.T.Shanthi & P.M.Dinesh	25,000
3	2015	AICTE-INAE Distinguished Visiting Professorship Scheme	AICTE & INAE	Dr.R.S.Sabeenian Prof.M.E.Paramasivam Prof.P.M.Dinesh	DA ,TA & Honorar ium of expert membe r funded by AICTE & INAE
4	2014	AICTE-INAE Distinguished Visiting Professorship Scheme	AICTE & INAE	Dr.R.S.Sabeenian Prof.M.E.Paramasivam Prof.P.M.Dinesh	DA ,TA & Honorar ium of expert membe r funded by AICTE & INAE
5	2014	National Level Workshop on Translation of Research in Image Processing to Clinical Image Based Diagnostic Procedures	IETE – New Delhi	Dr.R.S.Sabeenian Prof.T.Shanthi	50,000

	2014	Two Week ISTE Main Workshop on Control System	National Mission on Education through ICT(MHRD,G ovt. of India)	Dr.B.T.Thiyaneswaran	96,995
6	2013	Recent Advancement & future scope of Research in Image Processing	AICTE FDP	Dr.R.S.Sabeenian and Team	4,50,00 0
7	2013	National Conference on Communication Signal & Image Processing NCCSIP'13 on 12.04.2013	IETE – New Delhi	Dr.R.S.Sabeenian Prof.M.E.Paramasivam Prof.T.Shanthi	50,000
8	2012	Workshop on "Research Opportunities for Digital Image Processing in today's Scenario"	IETE – New Delhi	Dr.R.S.Sabeenian Prof.M.E.Paramasivam & P.M.Dinesh	15,000
9	2012	FDP on "Digital Signal Processing"	Anna University- Chennai	Dr.R.S.Sabeenian	70,000

S.No	Period	Title	Co-ordinators	Amount in Rs
1	19.5.18 to 27.5.18	Python Programming	Dr.R.S.Sabeenian Dr.K.R.Kavitha Prof.M.Jamuna Rani Dr.N.Sasirekha Dr.S.Jayapoorani	1,28,400
2	13.12.2017 to 29.12.2017	Engineering application using LAB view and CLAD certification	Prof. EldhoPaul P.M.Dinesh	1,45,000
3	20.10.17, 21.10.17	Two days hands on training on Embedded and IOT	Prof. S.Deepa Dr.K.R.Kavitha Prof .T.Shanthi	23,100
4	13.10.17	Hands on training o DSP Processor, ARM Processor and	Dr.K.R.Kavitha Dr.N.Sasirekha Prof M.Senthil Vadivu	12,600

		IOT		
5	18.9.17 to 3.10.17	PCB Design	Prof A.Ayubkhan Prof.S.Sree Southry	9,000
6	11.9.2017 to 29.9.2017	Basic C Programming in Continuous Time and Discrete Time signals using GNURADIO	R.Anand P.M.Dinesh	21,750
7	29.05.2017 to 03.06.2017	Digital Image Processing using Open CV & Python	Dr.R.S.Sabeenian Prof.M.E.Paramasivam Prof.P.M.Dinesh	27,000
8	05.6.17 to 10.6.17	PCB Design and Fabrication	Prof.S.Sree Southry Prof A.Ayubkhan	34,000

5.9 Faculty Performance Appraisal and Development System (FPADS)

The appraisal form consists of various parameters to evaluate a faculty in all the aspects

The parameters are described in the following table.

Perform	ance Evalu	ation for th June 201	e period of Ju 14	ıne 2013 -	G1 (< 5 Years)	G1 (> 5 Years)	G2 (< 5 Years)	G2 (> 5Years)	G3 (< 5Years)	G3 (> 5 Years)
	FACTO	ND 1 TEAC	TITNE (E1)		G1 - A 65	G1 - B	G2 - A	G2 -B 50	G3 - A	G3 -B 40
	FACTOR 1 - TEACHING (F1) Tutoring (F1 - S1)					60 35	55		45	
			- 51)		40	35	30	25	25	20
S1a -	Courses Odd	No of Classes Allotted	No. of Class	% of Classes	20	17.5	15.0	12.5	12.5	10
Lecture	/Even	/ Semester	Conducted	Handled	20	17.5	13.0	12.3	12.3	10
				100%	20	17.5	15.0	12.5	12.5	10
				<100%	0	0.0	0.0	0.0	0.0	0
S1b - Results	Courses Theory Odd/ Even	Course / Branch / Sem / Sec	No. of Students App/ Passed	Overall Pass %	15	15	10	10	5	5
				91-100%	15	13.1	11.3	9.4	9.4	7.5
				81- 90 %	13	11.4	9.8	8.1	8.1	6.5
				71- 80 %	10	8.8	7.5	6.3	6.3	6.5
				< 71 %	3.0	3.0	2.0	2.0	1.0	1
S1c - Feedback	Courses Odd /Even	Course / Branch / Sem / Sec	Feedback Grades	Range	5	4.4	3.8	3.1	3.1	2.5
				85 % and Above	5	4.4	3.8	3.1	3.1	2.5
				75 - 84 %	3	2.6	2.3	1.9	1.9	1.5
				60 - 74 %	2	1.8	1.5	1.3	1.3	1

		< 60 %	0	0	0	0	0	0

	Т	raining (F1	- S2)		10	10	10	10	10	10
S2 - Training	Topic of training Programme	Duration	Attended / Organized	Range						
				Min. 1 Progrmme per Semester, Max. considered is 2 Nos., (2 * 5 = 10 points)						
4.7			<u> 1ent (F1 - S</u>	2	10	10	10	10	5	5
	n in Teaching & etween (0 - 4)			ices (Evaluated	4	4	4	4	2	2
2.Authored	a course mater 0 - 4) or (0 -2	ial or Lab ma	anual (Evalua	ated by HODs	4	4	4	4	2	2
3.Developm 2) or (0 -1		Aids (Eval i	uated by HO	Ds between (0 -	2	2	2	2	1	1
•	Profession	-	ment (F1 - 9		5	5	5	5	5	5
1. Members granted 2.		nal bodies (Min. 1 Memb	ership can be	2.5	2.5	2.5	2.5	2.5	2.5
	e added course etween 0 - 2.5		for the stude	ents (Evaluated	2.5	2.5	2.5	2.5	2.5	2.5
ا	FACTOR 2 - RESEARCH DEVELOPMENT (F2)				10	10	15	15	20	20
(Int.Conf. Journal w	1.Publication: Title of the paper, Type, Volume, Issue page No, Year, (Int.Conf. / Max. considered is one with 2 Points) (National Journal with IF >= 1 / Max. considered is three with each 2 points) (Int. Journal with IF >= 1 / Max. considered is two with					6	6	6	6	6

each 3 points)						
2.Book Published authored or edited (Max Considered is one with 1/2.5/3 Point)	1	1	2.5	2.5	3	3
3.Patents Applied/ Patents Received (Max Considered is one with 1/2.5/5 Point)	1	1	2.5	2.5	5	5
4.Grants Received (Max Considered is one with 2/4/6 Point)	2	2	4	4	6	6
FACTOR 3 - STUDENT DEVELOPMENT (F3)	10	10	10	10	5	5
1. Industrial Projects / Research Projects assigned and completed with student's participation (Evaluated by HODs between (0 - 3) or (0-2))	3	3	3	3	2	2
2. Training the students towards industry expectation (Evaluated by HODs between (0 - 3) or (0-2))	3	3	3	3	2	2
3. Mentoring the students on organizational values and ethics (Evaluated by HODs between (0 - 4) or (0-1))	4	4	4	4	1	1
FACTOR 4 - INDUSTRY ACADEMIA INTERACTION (F4)	5	10	10	15	15	20
1. Consultancy work carried out with Industries (Evaluated by HODs between (0 - 2.5) or (0 -5) or (0-10)	2.5	5	5	10	10	10
2. Inviting Industry experts to campus for special lectures / Mock Interview / Training (Evaluated by HODs between (0 - 2.5) or (0 -5) or (0-10))	2.5	5	5	5	5	10
FACTOR 5 - ORGANIZATIONAL OBJECTIVES (F5)	5	5	5	5	10	10
1. Placement efforts (Evaluated by HODs between (0 - 3) or 0 -6))	3	3	3	3	6	6
2. Management assigned objectives (Evaluated by HODs between (0 - 2) or (0 -4))	2	2	2	2	4	4
FACTOR 6 - ORGANIZATIONAL DISCIPLINE (F6)	5	5	5	5	5	5

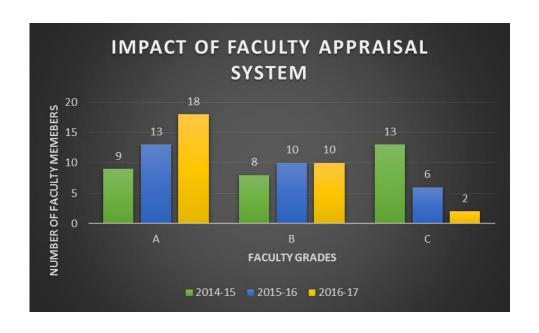
1. Inter personnel behaviors / communication (Evaluated by HODs between (0 - 2.5))	2.5	2.5	2.5	2.5	2.5	2.5
2. Attendance / Co-operation (Evaluated by HODs between (0 - 2.5))	2.5	2.5	2.5	2.5	2.5	2.5

Impact of faculty appraisal

S.N	Staff	Designatio	2013	3-14	2014	-15	2015	5-16	2016	-17
0	Name	n	Avg	Gr	Avg	Gr	Avg	Gr	Avg	Gr
1	Dr. R.S. Sabeenian	Professor	91.17	Α	97.9 2	Α	97.8 7	Α	95.73	Α
2	Dr. R. Vinod Kumar	Professor	77.66	С	69.6 0	С	75.2 5	C+	81.39	В
3	Prof. J.P. Senthil Kumar	Associate. Prof	67.32	С	72.7 3	С	74.4 9	C+	78.86	C+
4	Prof. S. Deepa	Associate. Prof	76.36	С	84.4 2	В	91.9 5	Α	91.95	А
5	Dr. K.R. Kavitha	Associate. Prof	74.29	С	83.6 4	В	91.1 7	Α	94.03	А
6	Dr. N. Sasirekha	Associate Professor	86.49	В	97.6 6	А	91.8 7	Α	91.69	А
7	Prof. J. Harirajkum ar	Associate Professor	83.12	В	95.5 8	А	90.9 1	Α	91.95	Α
8	Ms. M. Jamuna Rani	Asst. Professor Sr. G	67.79	С	77.6 6	С	76.6 2	C+	90.91	Α
9	Ms. T. Shanthi	Asst.Profess or Sr. G	74.55	С	72.4 7	С	84.6 8	В	97.40	А
10	Dr. K. Anguraj	Asst.Profess or Sr.G	69.61	С	86.4 9	В	92.3 4	Α	90.39	В
11	Dr . S. Jayapooran i	Asst.Profess or	65.71	С	87.2 7	В	80.6 1	В	93.25	Α
12	Dr. G. Ravi	Asst.Profess or	85.97	В	95.5 8	Α	91.6 1	Α	94.55	А
13	Ms. P. Priya	Asst.Profess or	80.26	С	91.9 5	Α	92.7 3	Α	89.87	В
14	Dr. S. Vijaya Lakshmi	Asst.Profess or	70.91	С	82.8 6	В	92.9 9	А	93.04	А
15	Ms. K. Manju	Asst.Profess or	64.94	С	74.2 3	С	78.1 3	C+	82.44	В
16	Ms. M. Senthil Vadivu	Asst.Profess or	76.36	С	83.3	В	87.0 1	В	94.55	А
17	Ms. T. Prema Kumari	Asst.Profess or	NA	NA	70.6 5	С	86.3 9	В	87.12	В
18	Ms. A. Sangeetha	Asst.Profess or	72.47	С	85.1 9	В	88.3 6	В	92.47	А
19	Dr. B. Thiyanesw aran	Asst.Profess or	73.51	С	93.7 7	Α	92.2 1	Α	93.77	Α

20	Mr. M.E. Paramasiv am	Asst.Profess or	74.03	С	67.2 7	С	91.0 9	А	93.77	Α
21	Ms. V. Meenakshi	Asst.Profess or	82.86	В	94.5 5	Α	87.7 9	В	90.13	В
22	Mr. S. Sree Southry	Asst.Profess or	75.58	С	80.0 0	С	87.2 2	В	90.96	Α
23	Mr. N.S. Yoganatha n	Asst.Profess or	80.00	С	75.5 8	С	72.4 7	C+	82.60	В
24	Ms. D.P. Sangeetha	Asst.Profess or	67.53	С	69.3 0	С	76.1 0	C+	84.94	В
25	Ms. M. Susaritha	Asst.Profess or	73.25	С	76.6 8	С	84.3 6	В	89.61	В
26	Ms. A. P. Jaya Krishna	Asst.Profess or	77.66	С	81.0 4	В	86.4 4	В	95.06	Α
27	Mr. A. Ayub Khan	Asst.Profess or	80	С	79.2 2	С	85.3 5	В	76.10	C+
28	Mr. P.M. Dinesh	Asst.Profess or	89.87	В	93.7 7	А	93.3 0	А	95.64	Α
29	Ms. S. Vijayashaa rathi	Asst. Professor	78.18	С	95.0 6	Α	92.3 9	Α	91.12	Α
30	Mr. A.B. Ahadit	Asst. Professor	NA	NA	NA	NA	NA	NA	88.31	В
31	Ms. V. Geetha Lakshmi	Asst. Professor	65.19	С	77.4 0	С	NA	NA	NA	NA

90.32% of the Faculty members have shown their improvement due to this appraisal system.



5.10. Visiting/Adjunct/Emeritus Faculty etc.

(2017-18)

Nam	S.n	Time	Subject title	Date	No. of	Total
е	0				hours	hour
Prof. K.N. Sury anar	1.	9.30 am - 4.00 pm	RF & Microwave Communication Fundamentals, Design & Application	5.6.2017 to 6.6.2017	10	51
ayan arao	2.	12.30 pm - 5.30 pm	Recent Trends in Microwave and Antenna Technology	29.06.2017	5	
Dr.Si marj eet saini	1.	9.00 am to 10.30 am	Transmission lines and wave guides	4.09.2017 to 27.09.2017	36	

(2016-17)

Name	S.no	Time	Subject title	Date	No. of hours	Total hour
Prof.K.N.Sury anarayanarao	1.	9.30 - 4.00 pm	-RF and Microwave Integrated Circuits	08.08.2016 to 09.08.2016	10	
	2.	9.30 - 4.00 pm	- Radio networks and WCDMA	04.05.17 to 05.05.2017	10	50
Dr.Simarjeet saini	3.	9.00 am to 10.30 am	Engineering Electromagnetic	13.03.2017 to 01.04.2017	30	

(2015-16)

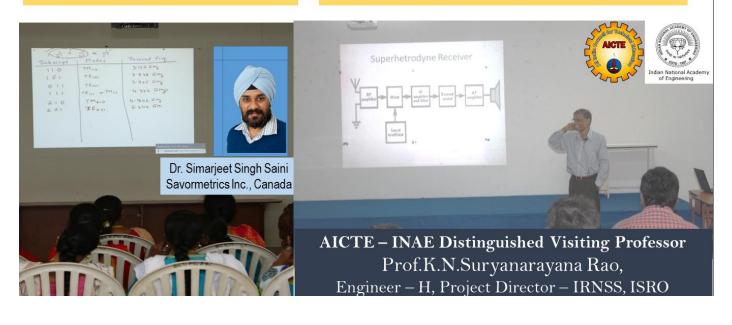
Visiting/Adjunct/Emeritus Faculty Name	S.no	Timing	Title	Date	No.of hours	Total hour
	1	9.30 - 4.00 pm	Software defined Radios	23.02.2016	5	110
Prof.K.N.Suryanarayanarao	2	10.00 - 4.00 pm	Recent research in OFDM technology	23.06.2016	5	

	1		T	T	1
	3	9.30 -	Communications	6.07.2016	10
		4.00	satellite and Radio	to	
		pm	broadcasting	7.07.2016	
	4		Microcontroller	25/04/15	
	5		Microcontroller	02/05/15	
	6		Microcontroller	07/05/15	
	7		Microcontroller	16/05/15	
	8		RFID	08/06/15	
	9		RFID	09/06/15	
_ ,	10		RFID	10/06/15	
Dr.Vijayaragavan	11		Sensors	16/06/15	
Viswanathan	12		Sensors	22/06/15	
	13		Sensors	23/06/15	
	14		Sensors	24/06/15	69
	15		Raspberry Pi	03/07/15	hrs
	16	2.00	Raspberry Pi	09/07/15	
	17		Raspberry Pi	11/07/15	
	18		Raspberry Pi	21/08/15	
	19	PM to	Embedded C	22/08/15	
	20	5.00	Embedded C	04/09/15	
	21	PM	Embedded C	12/09/15	
	22	1	Embedded C	20/09/15	
	23	1	SPI coding	23/09/15	
	24	1	SPI coding	24/09/15	
	25		SPI coding	30/09/15	
	26	1	SPI coding	02/11/15	
	27	1	SPI coding	11/01/16	
	28	1	Big Data analysis	12/01/16	
	29	1	Big Data analysis	13/01/16	
	30	1	Big Data analysis	20/01/16	
	31		Prototype Development	03/02/16	21 hrs
	32		Prototype Development	03/03/16	
	33	1	Prototype Development	04/03/16	

TEACHING METHODOLOGY

ONLINE LIVE LECTURE

INDUSTRY DRIVEN GUEST LECTURE



CRITERION 6 FACILITIES AND TECHNICAL SUPPORT

6.1 ADEQUATE AND WELL-EQUIPPED LABORATORIES, AND TECHNICAL MANPOWER (40)

Name of		No. of	Nome of the	Weekly Utilization	Technical manpower support			
S.No	the Laborat ory	Students Per Setup (batch Size)	Name of the Important Equipment	Status (all the Courses for which the lab is Utilized)	Name of the Technical Staff	Designation	Qualificat ion	
1.	Electron ics Lab& Digital IC Lab	3(48)	1. Cathode Ray Oscilloscope - (0-30MHz) 2. Function Generator with power supply -(0- 3MHz) 3. Single/Dual /Tracking power supply 4. Digital IC Trainer with power supply	ODD Semester: 35hours Even Semester:36 hours	V. Velu	Lab Technician	DEEE	
5.	Linear Integrat ed Circuits lab	3(48)	1. Cathode Ray Oscilloscope (0-30MHz) 2. Function	ODD Semester: 30 hours Even Semester: 27 hours	R. Yuvaraj	Lab Technician	B.E	

			Generator with power supply - (0-3MHz) 3. Single/Dual /Tracking power supply				
6.	Digital Image Processi ng Lab	3(24)	1. NI LabVIEW 2. Smart Camera - 01 3. DAQ unit - 10 4. MATLAB 2017b(50 Tool Boxes)	ODD Semester & Even Semester: Full Utilization (39 hours)	D.Dhanalakshmi	Lab Assistant	ITI, BCA
7.	Optical & Microwa ve Lab	4(24)	1. Microwave power meter 2. Klystron power supply and oscillators 3. Gunn power supply &oscillator 4. Microwave components	ODD Semester: 18 hours Even Semester: 24 Hours	E.Alex Sundarraj	Lab Technician	DECE., (BE)

			5. VSWR meter 6. OTDR 7. Optical LED & Laser 8. Optical power meter				
9.	VLSI Lab	2(50)	1. ALTERAQuart us II software 2. DE01 – FPGA Kit 3. Mentor graphics 4. Xilinx software 14.1 5. Xilinx Spartan FPGA kit	ODD Semester & Even Semester: Full Utilization (39 hours)	B.Balaji	Lab Technician	ITI,DCA (B.Com)
6.	Digital Signal Processi ng Lab	2(50)	1. TMS 320 C5416 Kit, 2. Digital Storage Oscilloscope 60 MHz, 3. MATLAB 2017b (50 Tool boxes) 4. NetSIM, LT01 Kit	ODD Semester & Even Semester: Full Utilization (39 hours)	C.Manikandan	Lab.Technician	I.T.I, D.C.H.N.A, MBA
5.	Commu nication Lab	3(24)	1. Digital StorageOscill oscope 70MHz 2. CRO -30MHz	ODD Semester: 18 hours Even Semester: 24 hours	J.Soundappan	Lab Technician	DECE, BE

			 Function Generator - 3MHz Digital Communicati on Trainer kits ATS(Antenna Training Systems)- 850MHz Network analyzer - 1.5GHz Spectrum analyzer- 1.5GHz Vector Signal Generator - 1GHz Mixed Signal 				
			8. Vector Signal Generator –				
			- 100MHz10. RF SignalGenerator -150 -				
			300MHz. 1.8085 kits,	ODD Semester:			
4.4	Micropro	4(50)	8086 kits	18 hours	D Calve lavore	Lab Tackada	DEE
11.	cessor Lab	4(50)	2. 8051 kits 3. Interfacing boards for	Even Semester: 21 hours	P.Selvakumar	Lab Technician	DEE

13.	Embedded System Lab	3(24)	14.Wi-fi module 1. Microcontroller Ultra – Low power MSP430 MSP- EX430F5438 2. Tiva C series development board 3. MSP 430F5529 4. C2000 Piccolo LAUNCHXL- F28027 5. Sensor Hub Booster pack 6. CC2650 Sensor Tag 7. Intel Galelio	ODD Semester & Even Semester: Full Utilization (39 hours)	T. Karthik	Lab Technician	BE
			_				

ADDITIONAL FACILITIES CREATED FOR IMPROVING THE QUALITY OF LEARNING EXPERIENCE:

1. Teaching aids- chalk/white-board, multimedia projectors, etc.

S NO	TEACHING AIDS	QUANTITY
1	Chalk board	1-no in each class
		room
2	Multimedia projectors	14 Nos
3	Overhead projectors	2 Nos
4	Learning resources (NPTEL,	One for each course
	CD's)	one for each course
5	Lecture Capture System(LCS)	7 class rooms
6	Black Board LMS	For all the students
7	CISCO CEED BOX	2 Nos

2. Acoustics, classroom, conditions of chairs/benches, air circulation, lighting exits, ambiance, and such other amenities/facilities

ROOM DESCRIPTION Class Room Number	CONDITIONS OF CHAIRS AND BENCHES	AIR CIRCULATION, LIGHTING, EXITS, AMBIANCE
911 912 913 914 915 916 921 922 923 924 925 926 931 932 933 934 935 936 Dr.A PJ.Abdul Kalam Conference/Seminar Hall	In good condition	 All the doors and windows in the rooms are located to allow maximum daylight and provide good cross ventilation. All the doors are sufficiently wide and available in adequate numbers, to evacuate people inside in case of emergency The buildings are designed by professional architects, who give utmost care in providing academic ambiance in all the rooms.

Availability of individual faculty rooms

Room Description					Rooms	
Hall No.	Size (Sq m)	No of Rooms	Usage	Shared/ Exclusive	Capacity	Equipped with
I Floor	33.94	3	Faculty Rooms (Cabins)	Exclusive	2	Fans, lights, PC with internet, Book Rack
II Floor	30.72	3	Faculty Rooms (Cabins)	Exclusive	2	Fans, lights, PC with internet, Book Rack.
II Floor	152.58	2	Faculty Rooms (Cabins)	Exclusive	8	Fans, lights, PC with internet, Book Rack, & Pantry
III Floor	152.58	2	Faculty Rooms (Cabins)	Exclusive	5	Fans, lights, PC with internet, Book Rack, & Pantry
Third Floor	23.27	1	HOD Room	Exclusive	1	PC, Internet, Book rack, tables, Chairs, Fans, Lights and A/C
Ground Floor(R&D Center)	105	1	Faculty Rooms (Cabins)	Exclusive	4	Fans, lights, PC with internet, Book Rack

4. Additional facilities created for the students:

S No	Facility Name	Details	Reasons for creating facilities	Utilization	Areas inwhichstudents are expected toutilize
1.	Internet Facility	Bandwidth 100 Mbps (1:1 ILL) (Airtel 50 Mbps Tata 50 Mbps)	Self-learning /Seminars /Presentations /Solve assignments, documentation	Unlimited	Courses specified in Curriculum, LCS and Black board LMS
2.	Printed Circuit Board laboratory	Table top driller, etching machine, UV exposure, art work film maker, curing & sharing machine	Manufacturing of printed circuit boards	As needed	Industry oriented training
3.	EDUSAT training	Technical videos by experts	To enhance student knowledge	As needed	Courses specified in Curriculum
4.	Tutorial Classes	Conducted for analytical courses	To improve problem solving skills for the students	As needed	Subjects opted by students
5.	Department Library	Program Specific text books and reference books(3516), previous year question paper, Career guidance	To provide additional support for students	As needed	Courses specified in Curriculum

6.	Digital Library	IEEE Xplore Science direct	Books, Technical books, Journals, previous year question paper, power point presentations, Video lectures, Access to IEEE Xplore	As needed(IP Based access to students inside the campus)	Curriculum
7.	Surveillance Cameras	IP cameras	To enhance the security of the department	21 Nos.	Security purpose
8.	Television	Smart LED TV	To display the current events and achievements of the college	12 No's	Display the current activities and achievements.
9.	Lift	10 passengers, 680 Kg			To ensure that the differently abled
10.	Ramp/wash rooms/ wheel Chair	Each one	For differently abled students	For regular usage	students access the
11.	Lecture Capturing System Server	7 Dahua IP cameras and 12 servers	To record lectures handled in the classrooms	Unlimited	Review the recorded lectures and henceforth provide access to

	Room				students such that they	
					can refer to the class	
					anytime and anywhere	
12.					Cisco Education	
					Enabled Development	
	Cisco	CEED 3700		02	is a comprehensive	
	Education		To enable teaching and		integrated and open	
	Enabled	CLLD 3700			learning platform.	
	Development		learning process		Designed to leverage	
	(CEED) BOX				collaboration and live	
					content video to enable	
					teaching and learning.	
	VLSICOMM	Mentor Graphics &		As needed	VLSI and	
13.	R&D Centre	Xilinx	For research work		Communication	
	Rad Centre				Systems	
14.		MATLAB2017b,		As needed		
		LabVIEW and NI				
		flexrio,				
	SIPRO - R&D	Smart Camera -02	For research work		Signal and Image	
	Centre	Matrox Imaging	For research work		Processing	
		Digital Camera – 01				
		Handy camera -01				
		Scanner - 01				

6.2 Laboratories maintenance and overall ambiance(10)

Maintenance of Laboratory Equipment

- 1. Service and maintenance of equipment is carried out regularly.
- 2. Breakdown register is maintained in the laboratories.
- 3. Minor repairs are carried out by the technical staff of the department based on available resources and expertise.
- 4. Major repairs are outsourced by following the procedure of the Institute.
- 5. Dead stock register is maintained in laboratories.

Overall Ambiance

- 1. Department has sufficient number of laboratories which is used throughout the year on a periodic time line basis to meet the curriculum requirements and based on requirements of the students.
- 2. Necessary furniture for students is provided in each laboratory. Based on the requirement, the students utilize them in the laboratories.
- 3. Laboratories are equipped with sufficient equipment to conduct the experiments.
- 4. Laboratory manuals contains information on vision, mission, PEO, PO, PSO, safety precautions, equipment handling instructions along with the details of the experiments are distributed to students well in advance.
- 5. UPS facility is available in all the laboratories.
- 6. Lighting system is very effective, along with the natural light in every laboratory.
- 7. All the laboratories are equipped with white/chalk board, computer, Internet, and other such teaching-learning aids.
- 8. The Department has a couple of funded research laboratories. Students and faculty members are always encouraged to carryout research in these exclusive research laboratories. However, the research work is not constrained only to these laboratories.
- 9. Lecture Capture System (LCS), MOODLE and Blackboard LMS are used for the enhancement of teaching learning process.

- 10. Every laboratory has a dedicated technical staff resource. It is ensured that the deputed technical staff has sufficient skills for handling the equipment and software pertaining to that particular laboratory.
- 11. Separate student innovative corridor is available in the department for the purpose of mini project and projects.

S.No	Curriculum Lab Description	Exclusive/Use /Shared	Space, Number of Students	Number of Experiments	Quality of instruments	Lab manuals
1.	Electronics and Digital IC Lab	Shared	213 Sq m,50	15		Available
2.	Linear integrated Circuits lab	Shared	180.3 Sq m,50	15		Available
3.	Digital Signal Processing Lab	Exclusive	180.3 Sq m,50	15		Available
4.	Communication Lab	Exclusive	115 Sq m,25	15	In Good Condition	Available
5.	Digital Image Processing Lab	Exclusive	66 Sq m,25	15		Available
6.	VLSI Lab	Shared	90.4 Sq m,25	15		Available
7.	Microprocessor Lab	Exclusive	253 Sq m,50	15		Available
8.	Optical & Microwave Lab	Shared	115 Sq m, 25	15		Available
9.	Embedded System Lab	Exclusive	75 Sq m, 25	15		Available
10.	Project/Research Lab	Exclusive	115 Sq.m,40	Not applicable		
11.	Student innovative corridor	Exclusive	200 Sq.m,50	Not applicable		

6.3. Safety measures in laboratories (10)

S No.	Name of the laboratory	Safety measures
		Specific safety rules for students displayed.
		2. First aid box and fire extinguisher are kept in the
		laboratory.
		3. Avoid the use of condemned equipment and provides
1.	Electronics Lab & Digital IC Lab	needful equipment and components.
		4. Periodical servicing of the lab equipment.
		5. Maintain a clean and organized laboratory.
		6. Avoid the use of cell phones.
		7. Appropriate storage areas.
		Specific safety rules for students displayed.
	Linear integrated Circuits lab	2. First aid box and fire extinguisher are kept in the
		laboratory.
		3. Avoid the use of condemned equipment and provides
2.		needful equipment and components.
		4. Periodical servicing of the lab equipment.
		5. Maintain a clean and organized laboratory.
		6. Avoid the use of cell phones.
		7. Appropriate storage areas.

		Specific safety rules for students displayed.
		2. First aid box and fire extinguisher are kept in the
		laboratory.
3.	Digital Signal Processing Lab	3. Periodical servicing of the lab computers.
		4. Maintain a clean and organized laboratory.
		5. Avoid the use of cell phones.
		6. Appropriate storage areas.
		Specific safety rules for students displayed.
		2. First aid box and fire extinguisher are kept in the
		laboratory.
	Communication Lab	3. Avoid the use of condemned equipment and provides
4.		needful equipment and components.
		4. Periodical servicing of the lab equipment.
		Maintain a clean and organized laboratory.
		6. Avoid the use of cell phones.
		7. Appropriate storage areas.
		Specific safety rules for students displayed.
	Digital Image Processing Lab	2. First aid box and fire extinguisher are kept in the
		laboratory.
5.		3. Periodical servicing of the lab equipment.
		4. Maintain a clean and organized laboratory.
		5. Avoid the use of cell phones.
		6. Appropriate storage areas.
6.	VLSI Lab	Specific safety rules for students displayed.
0.	VLSI Lau	2. First aid box and fire extinguisher are kept in the

			laboratory.
		3.	Periodical servicing of the lab equipment.
		4.	Maintain a clean and organized laboratory.
		5.	Avoid the use of cell phones.
		6.	Appropriate storage areas.
		1.	Specific safety rules for students displayed.
		2.	First aid box and fire extinguisher are kept in the
			laboratory.
		3.	Avoid the use of damaged equipment and provides
7.	Microprocessor Lab		needful equipment and components.
		4.	Periodical servicing of the lab equipment.
		5.	Maintain a clean and organized laboratory.
		6.	Avoid the use of cell phones.
		7.	Appropriate storage areas.
		1.	Specific safety rules for students displayed.
		2.	First aid box and fire extinguisher are kept in the
	Optical & Microwave Lab		laboratory.
		3.	Avoiding the use of condemned equipment and
8.			provides needful equipment and components.
		4.	Periodical servicing of the lab equipment.
		5.	Maintain a clean and organized laboratory.
		6.	Avoid the use of cell phones.
		7.	Appropriate storage areas.
9.	Embaddad System Lab	1.	Specific safety rules for students displayed.
9.	Embedded System Lab	2.	First aid box and fire extinguisher are kept in the

	laboratory.
3	Avoiding the use of condemned equipment and
	provides needful equipment and components.
4	Periodical servicing of the lab equipment.
5	Maintain a clean and organized laboratory.
6	Avoid the use of cell phones.
7	Appropriate storage areas.

6.4. Project laboratory (20)

- Student innovative corridor and Project/Research lab are utilized by the students for their projects.
- Discussions and implementations of innovative ideas about mini projects and final year projects are carried out in innovative corridor.
- Project/Research lab is exclusively for the research and project work with the hardware and software facilities listed below:

Hardware Facilities

SI. No	Name of the Equipment's
1.	USB PIC Programmer Kit
2.	PIC 16F877A IC
3.	PIC 16F877A Board
4.	Alarm Clock add- on card, Elevator Controller, Modern Train
	Controller

5.	TGS Sensors Set
6.	5Million SPARTAN – 3E Board
7.	DSP-in-VLSI Trainer (Xilinx FPGA - SPARTAN)
8.	DSP IC 16 Bit Micro Controller Kit
9.	AVR Micro Controller Board
10.	FPGA Multifunction Evaluation Kit
11.	Digital IC trainer
12.	Cranes Software DSP Kit
13.	Scientific 3MHz Function Generator Supply Model SM5776
14.	DSO 25MHz & 100MHz
15.	Advance Fiber Optic Communication Trainer Link: LINK – B
16.	Fiber Optic Video Link with CCD Camera Monitor & Fiber Optic Link
17.	ATS – 03, Antenna Training System with GPS Trainer Kit
18.	Micro strip Antenna Trainer, ATS – MICRO
19.	GPS Trainer Kit (GPS – 04)
20.	Fourier Synthesis Kit (ACL – 07)
L	1

21.	Noise Power Spectral Density Kit (ACL -05)
22.	RFT - B, Basic RF Communication Trainer
23.	TLT – B, Basic Transmission Line Trainer
24.	CDMA – 02 CDMA Mobile Communication Trainer
25.	Agilent N9923 – 104, 4GHz Field Fox Handheld RF Vector Network Analyzer
26.	ZigBee modules
27.	Arduino board
28.	Raspberry Pi, Trainer kit
29.	Intel Galileo board
30.	Triple axis accelerometer
31.	GSM module
32.	Wi-fi module

Software Facilities

S.No	Software Name	Utilization
	Mentor Graphics HEP Category I (IC	
1.	Design) &	50 Users
	Category II (IC Design & Verification Test)	
2.	Xilinx - System Edition Ver. 14.1	25 Users
3.	Model Sim 10.1	50 Users
4.	Code Composer Studio V 3.1	'N' Users
5.	ADS - 2014 (Advanced Design System)	5 Users
6.	Lab VIEW 2012	Academy
		License
7.	MATLAB 2017b	TAH
8.	Quartus II	37 Users
9.	OrCAD	5 Users
10.	MultiSim	5 Users

CRITERION 7 CONTINUOUS IMPROVEMENT

7.1. Action taken based on the results of evaluation of each of the COs, POs & PSOs (30)

Identify the areas of weaknesses in the program based on the analysis of evaluation of COs, POs &PSOs attainment levels. Measures identified and implemented to improve POs& PSOs attainment levels for the assessment year including curriculum intervention, pedagogical initiatives, support system improvements, etc.

Action taken to be written as per table in 3.3.2

Examples of analysis and proposed action Sample 1-Course outcomes for a laboratory course did not measure up, as some of the lab equipment did not have the capability to do the needful (e.g., single trace oscilloscopes available where dual trace would have been better, or, non-availability of some important support software etc.).

Action taken-Equipment up-gradation was carried out (with details of up-gradation)

Sample 2-In a course on EM theory student performance has been consistently low with respect to some COs. Analysis of answer scripts and discussions with the students revealed that this could be attributed to a weaker course on vector calculus.

Action taken-revision of the course syllabus was carried out (instructor/text book changed too has been changed, when deemed appropriate).

Sample 3-In a course that had group projects it was determined that the expectations from this course about PO3 (like: "to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations") were not realized as there were no discussions about these aspects while planning and execution of the project.

Action taken-Project planning, monitoring and evaluation included in rubrics related to these aspects.

POs Attainment Levels and Action taken for improvement – (2018-2019) CAYm				
POs Target Level Attainment Level Observations				
PO1: Utilize the basic knowledge in mathematics, science and Engineering in Electronics and Communication Engineering field				
PO1	77%	85.22%	 Target achieved Attainment Level need to be improved in 18.5 % of the courses. 	

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO2: Identify, formulate and solve the complex problems to achieve demonstrated conclusions using mathematical principles and engineering sciences.

			1. Target achieved
PO2	77%	82.53%	2. Attainment Level need to be improved in 14.8 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and

Lecture capture systems.

- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO3: Design system components that meet the requirement of public safety and offer solutions to the societal and environmental concerns.

			1. Target achieved
PO3	77%	84.71%	2. Attainment Level need to be improved in
			16.7 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO4: Apply the research – based knowledge to design and conduct experiments, analyze, synthesize and interpret the data pertaining Electronics and Communication Engineering problems and arrive at valid conclusions.

			1. Target achieved
PO4	77%	81.49%	2. Attainment Level need to be improved in 14.8 % of the
			courses.

Action taken

1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.

- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO5: Construct, choose and apply the techniques, resources and modern engineering tools required for electronics and Communication Engineering applications.

DOE	770/	91 040/	Target achieved Attainment Level need to be
PO5	77%	81.94%	improved in 11.11 % of the
			courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- Conducted research / innovation awareness program among students and faculty members.

PO6: Apply the contextual knowledge to assess societal, health, safety and cultural issues and endure the consequent responsibilities relevant to the professional engineering practice.

PO6	77%	77.18%	1. Target achieved
	77.70	7711070	2. Attainment Level need to be
			improved in 12.9 % of the courses.

Action taken

1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.

- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- Conducted research / innovation awareness program among students and faculty members.

PO7: Examine the impact of Engineering solutions in global and environmental contexts and utilize the knowledge for sustained development.

PO7	77%	77.36%	1. Target achieved
		7710070	2. Attainment Level need to be
			improved in 1.8 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO8: Develop consciousness of professional, ethical and social responsibilities as experts in the field of Electronics and Communication Engineering

			1. Target achieved
PO8	77%	77.99%	2. Attainment Level need to be improved in 1.8 % of the courses.

Action taken

1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.

- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- Conducted research / innovation awareness program among students and faculty members.

PO9: Perform effectively as a member / leader in multidisciplinary teams

			1. Target achieved
PO9	77%	87.99%	_
			2. Attainment Level need to be improved in 3.7 % of the
			courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- Conducted research / innovation awareness program among students and faculty members.

PO10: Communicate the engineering activities to engineering society to prepare for documentation and presentation.

PO10	77%	80.26%	1. Target achieved
1010	7770	00.20 /0	2. Attainment Level need to be
			improved in 9.2 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.

- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- Conducted research / innovation awareness program among students and faculty members.

PO11: Demonstrate knowledge and understanding of the engineering and management principles to manage projects in multidisciplinary environment

			1. Target achieved
PO11	77%	84.32%	2. Attainment Level need to be improved in 16.7 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- Conducted research / innovation awareness program among students and faculty members.

PO12:Demonstrate resourcefulness for contemporary issues and lifelong learning

			1. Target achieved
PO12	77%	83.36%	2. Attainment Level need to be improved in
			16.7 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.

- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PSOs Attainment Levels and Action taken for improvement – (2014-2018) CAYm

PSOs	Target Level	Attainment Level	Observations	
to design a vai	PSO1:Apply the fundamental concepts of Electronics and Communication Engineering to design a variety of components and systems for applications including signal processing, image processing, communication, networking, embedded systems, VLSI			
and control systems				
PSO1	77%	81.44%	1. Target achieved	

Action Taken

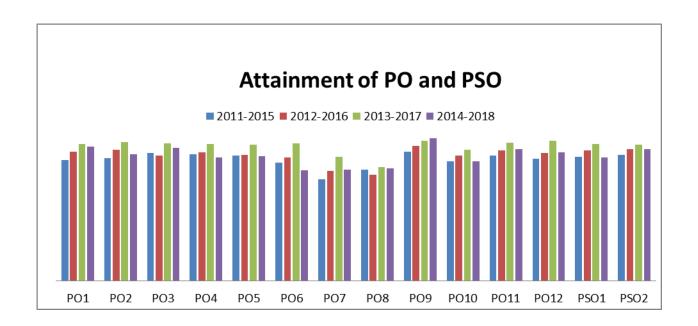
- 1. Teaching Learning tools Lecture Capture System, Black board, Moodle, etc.
- 2. Students are motivated to do mini projects on recent technologies.
- 3. Set- up embedded laboratory for experimentation models.
- 4. Students are given technical training for improving their skills.

PSO2: Select and apply cutting-edge engineering hardware and software tools to solve complex Electronics and Communication Engineering problems

PSO2	77%	84.27%	1. Target achieved

Action Taken

- 1. Teaching Learning tools Lecture Capture System, Black board, Moodle, etc.
- 2. Students are motivated to do mini projects on recent technologies.
- 3. Set- up Embedded laboratory for experimentation models.
- 4. Students are given technical training for improving their skills.



7.2. Academic Audit and Action taken thereof during the period of Assessment (15)

ACADEMIC AUDITING:

Periodical academic audits are conducted based on the ISO standards for the Teaching Learning Process, and other departmental activities. The audits are then evaluated by the Department Level and Institutional Level Committees. Generally, the academic audit is a twofold system comprising of Internal and External Audits.

Objectives of Academic Auditing:

- To ensure that the teaching-learning process is carried out effectively in the department because of which, there is a measurable improvement in the POs and COs attainment.
- To maintain the quality of teaching learning process, the evaluation approaches (with specific focus on question papers) is carried out in the department based on Bloom's Taxonomy.
- Sample based screening of evaluation of CIE answer scripts thereby ensures the maintenance of quality in the teaching-learning process.

Audit of Teaching-Learning Process:

The detail of various academic activities in the form of documents given below has to be maintained by the entire faculty. These documents shall be made available to the external auditor as and when required.

- Students Name list
- Timetable
- Syllabus
- Course Plan and Course Delivery details
- CO-PO mapping
- Attendance details
- CIE Test mark entry(including retest)

- Result details(CIE) and Action Taken Report
- Assignment / Quiz / Seminar details and marks
- Beyond Syllabus (topics, notes and questions asked in CIE tests)
- CO assessment and attainment details (based on CIE tests)
- Counselling records
- Hand-outs / Study guide / Question Bank given to students
- Support for toppers / Fast learners
- Remedial Classes records / Support for Slow learners
- Study guide / Notes / Question bank / Blackboard materials / Hand-outs
- Lab experiments / machine assignments related to the course
- Questions and problems for discussion in the classroom
- Home assignments / Home work details
- Tutorial Class details
- Industry mentor details
- Guest lecture arranged by the faculty
- Completion certificate for MOOC courses (NPTEL/Coursera etc.) of the faculty
- Course End Survey
- Minutes of the course committee meetings
- LCS Class room How many students benefited details
- Hands on training given additionally
- List of Experiments
- Sample records
- Lab Manual (Whether Lab Manual is as per the syllabus)
- Quality of the Lab Manual
- Quality of Experiments
- Mid-semester: Quality of Question Paper

For PROJECT WORK / MINI PROJECT / INTERNSHIP

- Projects groups and topics details
- · Review details and marks
- Industry / Research organization feedback
- Project outcomes (details of patents/publications/industry collaboration etc.)

Project Coordinators:

2015-2016	2016-2017	2017-2018
Dr.B.Thiyaneswaran	Dr.B.Thiyaneswaran	Dr.R. Vinod Kumar
		Prof.SDeepa
		Prof.T.Shanthi
		Prof.P.Vivek
		Karthick
		Prof.Eldho Paul
		Prof.R.Anand

Core team Members:

2015-2016	2016-2017	2017-2018
Dr.R. Vinod Kumar	Dr.R. Vinod Kumar	Dr.R. Vinod Kumar
Dr. D.Jayanthi	Prof. M.Jamuna Rani	Prof. M.Jamuna Rani
Prof. M.Jamuna Rani	Prof. M.Senthilvadivu	Prof. M.Senthilvadivu
Prof.J.Harirajkumar	Prof. M.Susaritha	Prof. M.Susaritha
	Prof.J.Harirajkumar	Prof.J.Harirajkumar

Internal Audit members:

2015-2016	2016-2017	2017-2018
Mr.A.Velsamy/MBA	Ms.N.Vadivu/H&L	Ms.A.K.Elavarasi
Mr.C.Sureshkumar/IT		/CSE

Audit of Evaluation Process and Outcomes:

The process of Academic Auditing intends to monitor and enhance the quality of internal evaluation process through proper guidelines. Periodical suggestions are also sought from auditing team members thereby ensuring a fair and quality based internal evaluation to take place.

The auditing team will check

- Question Paper Quality, 40% HoT
- Bloom's Taxonomy
- Coverage of Syllabus in the Question Paper
- Sample answer scripts (photocopies)(Best and Average) with copies of Question
 Papers

The focus of the internal / external auditing team would be to ensure that

- The outcome of each sub entity in the internal evaluation process is measurable
- The Internal evaluation process is carried out in such a way that all students (invariable of the individual's knowledge level) can take up the evaluation.
- The outcomes of evaluation process are distributed equally along the various degrees of difficulty using an available standard (Blooms Taxonomy has been used based on the common Institutional decision).
- Equal distribution of the evaluation process over the entire course syllabile defined, and thereby ensures that the student needs to navigate through the entire syllabile for a successful completion of the course.

Audit Report Format for question paper:

			ndard of estion pa			om's nomy	Pa Cove	stion per rage of abus	
S.N o	Course Code/Co urse Name	Very Good	Good	Satisf actor y	Follo wed 50 % applic ation and other highe r levels	Follow ed <50 % applic ation	Fully Cove red	Partly Cover ed	Comment s or Suggesti ons if any

Auditing team members:

2015-2016	2016-2017	2017-2018
Dr.B.Gopi	Dr.K.R.Kashwan	Dr.R.S.Sabeenian
Dr.R.S.Sabeenian	Dr.R.S.Sabeenian	Dr.R. Vinod Kumar

Answer papers of Continuous Internal Evaluation are audited by the auditing team.

• The auditing team give the comments of the answer scripts to the evaluator and HOD, after auditing.

Audit Report Format for answer script:

COURSE CODE / NAME	REGISTER NO	ORIGINAL MARKS AWARDED	MARKS AWARDED AFTER AUDIT	COMMENTS

Auditing team members:

2015-2016	2016-2017	2017-2018
Prof.B.Gopi	Dr.R.S.Sabeenian	Dr.R.S.Sabeenian
Dr.R.S.Sabeenian	Dr.R.Vinod kumar	Dr. R.Vinod kumar
Prof.R.Vinod kumar	Prof.J.P.Senthil Kumar	Prof.J.P.Senthil Kumar
Prof.J.P.Senthil Kumar	Prof.S.Deepa	Prof. S.Deepa
Prof.S.Deepa	Dr.K.R.Kavitha	Dr.K.R.Kavitha
Dr.K.R.Kavitha	Dr.N.Sasirekha	Dr. N.Sasirekha
Dr.N.Sasirekha	Prof.J.Harirajkumar	Prof.J.Harirajkumar
Prof.J.Harirajkumar	Prof.M.Senthil Vadivu	Prof. R.Gayathri
Dr.B.Thiyaneswaran		

7.3 Continuous Improvement

Salary Package Details

Academic Year	Core Companies Highest Package	IT Companies Highest Package	Others (Entrepreneur)	Higher Studies
2016-2017	3.5LPA	6.5LPA	6	14
2015-2016	3.5LPA	6LPA	2	14
2014-2015	3.33LPA	4.6LPA	-	16

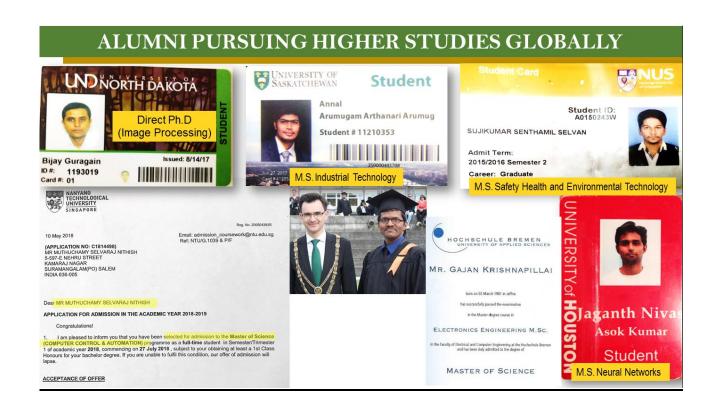
Higher Studies Details

Year	Number of students enrolling into higher education	Program graduated from	Department graduated from	Name of institution joined	Name of program admitted to	Student Names
				PSG college of Technology	M.E	Mani Raja
				PSG college of Technology	MBA	Aishwariya
2016- 2017	14	ECE	ECE	PSG college of Technology	M.E	Akshaya Dhaarani
				PSG college of Technology	MBA	Kirthika
				PSG college of Technology	MBA	Giju joel thomas E
				Knowledge Institute of Technology	MBA	Raghul Selvam
				Kumaraguru College of Technology	M.E	Madhusri
				Thagarajar College of Technology	МВА	Nivethitha
				Sona College of Technology	M.E	Sherin
				Sona College of Technology	M.E	B.S.Priyanka

			Sona College of Technology	MBA	Sai Lakshmi
			Knowledge Institute of Technology	M.E	Kowsalya
			Annamalai University	M.E	Spadika Mira
			Anna University	M.E	S.Dhatchani
			Nayang University	MS	Nishanth
2015- 2016	ECE ECE	Annamalai University	МВА	Poornimala	
		Annamalai University	МВА	Priyadharshini.S	
			University of Windsor,Canada	M.S	Neha Prakash Kacholiya
			Sona College of Technology	МВА	Harini
			Sona College of Technology	МВА	Ashika Zulfia
			Sona College of Technology	МВА	Kaviya
			Sastra University	M.Tech	Vandanakumari Raja
			Amrita University	M.E	Akshaya

				University of Texas	MS	Divya Bharathi	
				Latrobe University, Badoora, Australia	M.S	Brindhashini Viswanathan	
				Anna University	M.E	VP Suriya	
				Sona College of Technology	M.E	Vinothini Jane	
				Sona College of Technology	МВА	Krithika Preethi	
2014- 2015		ECE	University of Texas	MS	Nivas		
				VIT,Vellore	M.E	Anbarasu	
				University of Saskatchewam	MS	Annal	
				Anna University, Chennai	M.E	Rasik	
				National University of Singapore	MS	Suji Kumar	
				PSG Institute of Technology, Coimbatore	M.E	Yoga Janani	
					University of Windsor	M.S	Niwith Aryal

				ICAT Design and media college	Multimedia Technology	Nirmala
				Sona College of Technology	МВА	Sangeetha
			Amritha University	M.E	Shiva Priya	
			Sona College of Technology	M.E	Vinitha R	
				Ramakrishna Engg. College	M.E	G.S.Murali
				Kumaraguru College of Technology	МВА	Pradeep
				University of Buffalo	MS	Muthuvel
				VIT,Vellore	МВА	Nithya.R
				VIT,Vellore	MS	Rubesh



Companies Placed

2013-2017

S.NO	Recruiters	Placed
1.	TECHMAHINDRA	14
2.	ZOHO	1
3.	I4U LABS	2
4.	OPENTEXT TECH	1
5.	CHECKTRONIX	1
6.	VURAM TECHNOLOGIES	1
7.	THINK AND LEARN	3
8.	CORPORATE CLINIC	1
9.	DEEVITA TECH	2
10.	TVM SIGNALING	1
11.	AXIS GLOBAL	3
12.	RENAULT NISSAN	7
13.	PLAY FACTORY	3
14.	IDBI FEDERAL	8
15.	SUN RED INFOTECH	13
16.	FAUERCIA INTERIOR SYSTEMS	6
17.	MICROGENESIS TECHSOFT PVT. LTD	1
18.	NEXGEN	1
19.	RETECH SOLUTIONS	1
20.	MAINTECH SOULUTIONS	1
21.	CTS	1
22.	SCHINDLER	1
23.	GIRMITI SOFTWARES	1

2012-2016

S.No	Recruiters	Placed
1.	ZOHO	1
2.	MUSIGMA	2
3.	INFOVIEW	1
4.	TECHMAHINDRA	17
5.	MINDTREE	6
6.	POLARIS FT	5
7.	TAYANA SOFTWARE SOLUTIONS	1
8.	L&T INFOTECH	1
9.	EMBDES TECHNOLOGIES	1
10.	EUREKA FORBES	6

11.	GEMINI COMMUNICATIONS	9
12.	JUST DIAL	6
13.	AXIS GLOBAL	4
14.	BOSCH	1
15.	PLAY FACTORY	1
16.	KGISL	1
17.	SOFT SOLUTIONS	2
18.	CTS	11
19.	INFOSYS	2
20.	EWAVE NETWORKS	14
21.	HGS	5
22.	JUST CONNECT ELECTRICALS	8
23.	TCS	4
24.	SOFT TEK	1
25.	UXL TECHNOLOGIES	1
26.	LAKSHMI VILAS BANK	1

<u>2011-2015</u>

S.No	Recruiters	Placed
1.	MPHASIS	1
2.	MINDTREE	8
3.	TECHMAHINDRA	9
4.	POLARISFT	6
5.	ZOHO	1
6.	VCIDEX	2
7.	EXCELACOM	3
8.	IBM	2
9.	CTS	14
10.	INFOVIEW	2
11.	AXIS GLOBAL	10
12.	ARICENT	1
13.	VEE TECH	6
14.	QUALIAN TECHNOLOGIES	2
15.	TOYOTA TSHUSU ASSEMBLY	2
16.	ROBERT BOSCH	1
17.	CENTRAL BANK OF INDIA	1
18.	STATE BANK OF INDIA	2

19.	HEXAWARE	1
20.	CYBER TECH	1
21.	TVS	2

7.4. Improvement in the quality of students admitted to the program (20)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

ITEM		2017-2018	2016-2017	2015-2016
National Level Entrance Examination (Name	No.of Students admitted			
of the Entrance Examination)	Opening Score/Rank			
	Closing Score/Rank			
State/Institute/Level Entrance Examination/Others	No. of Students admitted	135	147	156
(Name of the Entrance	Opening Score/Rank	198.33	195.25	195.25
Examination)	Closing Score/Rank	115	131	107.25
Name of the Entrance Examination for	No. of Students admitted	26	31	24
Lateral Entry or lateral entry details	Opening Score/Rank	89%	98%	99%
	Closing Score/Rank	63%	68%	85%

Average CBSE/Any other Board			
Result of admitted	163.48	173.81	176.84
students (Physics, Chemistry &			
Mathematics)			

Number of students admitted in the program year wise:

S.No	Academic Year	No of students admitted
1.	2017-18	135
2.	2016-17	147
3.	2015-16	156

No of students admitted in the program (Lateral Entry):

S.No	Academic Year	No of students admitted
1.	2017-18	26
2.	2016-17	31
3.	2015-16	24

Starting score and ending score of the students admitted in the program:

S.NO	Academic Year	Starting score	Ending score
1.	2017-18	198.33	115.00
2.	2016-17	195.25	131.00
3.	2015-16	195.25	107.25

Starting score and ending score of the students admitted in the program (Lateral entry):

S.NO	Academic Year	Starting score	Ending score
1.	2017-18	89%	63%
2.	2016-17	98%	68%
3.	2015-16	99%	85%

CRITERION 8

First Year Academics

8.1	First Year Student-Faculty Ratio (FYSFR)	(5)
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Details of student faculty ratio for first year is as shown in table 8.1

Table 8.1 Details of student- faculty ratio for first year

Y	'ear	Number of Students (approved intake strength)	Numbers of Faculty Members (Considering fractional load	FYSFR	Assessment = (5 ×15)/ FYSFR (Limited to Max. 5)
CAY (2	2017-18)	1020	68	15.00	5
CAYm1 (2016-17)		1020	68	15.00	5
CAYm2(2015-16)		960	64	15.00	5
Average		1000	66.67	15.00	5
Qualification of Faculty Teaching First Year Common 8.2 Courses					(5)

Assessment of qualification = (5x + 3y)/RF

x = Number of Regular Faculty with Ph.D

y = Number of Regular Faculty with Post-graduate qualification

RF= Number of faculty members required as per SFR of 15:1

Table 8.2 Qualification of Faculty Teaching First Year Common Course

Year	x	Y	RF	Assessment of Faculty qualification (5x+3y)/RF
CAY (2017-18)	23	45	68	3.7
CAYm1 (2016-17)	16	52	68	3.47
CAYm2(2015-16)	22	42	64	3.68
Average	20.33	46.33	66.67	3.62

Table 8.3 Details of qualification of faculty teaching first year

List of faculty members teaching first year courses: 2017-2018

S. NO	Name of Faculty	Qualificati on	Designation	Date of joining institution	Department with which associated	Distribution of teaching load (%)		
						1st Year	UG	PG
1	Dr.S.Radjarejesri	Ph.D	Associate Professor	01.07.2005	Science (Chemistry)	-	100 %	-
2	Dr. T.Maruthavanan	Ph.D	Associate Professor	01.07.2005	Science (Chemistry)	100%	-	-
3	Dr. A.P.Uthirakumar	Ph.D	Associate Professor	19.08.2010	Science (Chemistry)	100%	-	-
4	Dr. N.Panneer Selvam	Ph.D	Asst.Prof	26.07.2010	Science (Chemistry)	100%	-	-
5	Dr.M.Raja	Ph.D	Asst.Prof	29.08.2005	Science (Chemistry)	50%	50%	-
6	Dr.G.Shanthi	Ph.D	Asst.Prof	23.08.2010	Science (Chemistry)	100%	-	-
7	S.Kalaiarasan	M.Sc.,M.Phil	Asst.Prof	17.12.2004	Science (Chemistry)	100%	-	-
8	Dr.R.Venkatesh	Ph.D	Asst.Prof	15.09.1997	Science (Chemistry)	50%	50%	-
9	Dr.C.Saravanan	Ph.D	Asst.Prof	23.10.2014	Science (Chemistry)	100%	-	-
10	Dr. C.Shanthi	Ph.D	Professor & Head	15.09.1997	Science (Physics)	100%	-	-
11	Dr. Raja Sri Sen Jaiswal	Ph.D	Professor	31.01.2003	Science (Physics)	100%	-	-
12	Dr. S.Saravanan	Ph.D	Professor	04.05.2009	Science (Physics)	100%	-	-
13	S.Sivakumar	M.Sc.,M.Phil	Asst.Prof	13.03.2017	Science (Chemistry)	100%		
14	G.Chinnasamy	M.Sc.,M.Phil	Asst.Prof	15.03.2017	Science (Chemistry)	100%		
15	G.Saranya	M.Sc.,M.Phil	Asst.Prof	15.03.2017	Science (Chemistry)	100%		
16	K.Elavarasan	M.Sc.,M.Phil	Asst.Prof	15.03.2017	Science (Chemistry)	100%		
17	M.Devendiran	M.Sc.,M.Phil	Asst.Prof	13.03.2017	Science (Chemistry)	100%		
18	R.Madhesh	M.Sc.,M.Phil	Asst.Prof	15.03.2017	Science (Chemistry)	100%		
19	Dr. V.Balasubramanian	Ph.D	Professor	27.06.2002	Science (Physics)	100%	-	-
20	M.Muthukrishnan	M.Sc.,M.Phil	Asst.Prof	01.07.2005	Science (Physics)	100%	-	-
21	Dr.C.Shanmuga Priya	Ph.D	Asst.Prof	01.03.2006	Science (Physics)	100%	-	-
22	Dr.C.Sridevi	Ph.D	Asst.Prof	20.11.2006	Science (Physics)	100%	-	-
23	P.Kavitha	M.Sc.,M.Phil	Asst.Prof	24.01.2011	Science (Physics)	100%	-	-
24	Dr.P.Sangeetha	Ph.D	Asst.Prof	18.02.2013	Science (Physics)	100%	-	-

25	Dr.M.Silambarasan	Ph.D	Asst.Prof	20.07.2009	Science (Physics)	100%	-	-
26	Dr.M.Renuga	Ph.D	Professor	01.10.1997	English	50%	-	50 %
27	V.Vijaya Lakshmi	MA.,M.Phil	Asst.Prof	01.09.2003	English	50%	-	50 %
28	N.Vadivu	MA.,M.Phil	Asst.Prof	20.06.2005	English	100%	-	-
29	G.Sarathalakshmi	MA.,M.Phil	Asst.Prof	20.06.2005	English	50%	-	50 %
30	B.Kanchanamala	MA.,M.Phil	Asst.Prof	10.01.2007	English	100%	-	-
31	M.Saraswathy	MA.,M.Phil	Asst.Prof	23.09.2009	English	100%	-	-
32	C.Shahin Banu	MA.,M.Phil	Asst.Prof	03.01.2011	English	100%	-	-
33	R.Sathees Kumar	MA.,M.Phil	Asst.Prof	10.08.2015	English	100%	-	-
34	P.Sree Gayathiri	MA.,M.Phil	Asst.Prof	17.06.2013	English	100%	-	-
35	S.Jayabharathi	M.Sc.,M.Phil	Associate Professor	05.07.2000	Maths	-	60%	40 %
36	R.Rahothaman	M.Sc.,M.Phil	Associate Professor	03.05.2004	Maths	-	60%	40 %
37	M.Nazreen Banu	M.Sc.,M.Phil	Associate Professor	09.07.2003	Maths	-	60%	40 %
38	Dr.S.R.Latha	Ph.D	Asst.Prof	01.04.2005	Maths	40%	60%	-
39	S.Vijay Peter	M.Sc.,M.Phil	Asst.Prof	01.08.2009	Maths	-	67%	33 %
40	A.Annie Lotus	M.Sc.,M.Phil	Asst.Prof	26.06.2005	Maths	40%	60%	-
41	Dr.A.Saravanan	Ph.D	Asst.Prof	17.10.2005	Maths	-	100 %	-
42	S.Abhirami	M.Sc.,M.Phil	Asst.Prof	03.07.2006	Maths	50%	50%	-
43	G.Suganthi	M.Sc.,M.Phil	Asst.Prof	04.12.2006	Maths	50%	50%	-
44	K.Deiwakumari	M.Sc.,M.Phil	Asst.Prof	02.07.2007	Maths	50%	50%	-
45	A.Abirami	M.Sc.,M.Phil	Asst.Prof	04.07.2007	Maths	50%	50%	-
46	B.Venkatesh	M.Sc.,M.Phil	Asst.Prof	11.06.2007	Maths	-	100 %	
47	T.K.Parvatha Varthini	M.Sc.,M.Phil	Asst.Prof	05.08.2009	Maths	50%	50%	-
48	K.Buvaneswari	M.Sc.,M.Phil	Asst.Prof	03.09.2009	Maths	-	75%	25 %
49	Dr.R.Dhavaseelan	Ph.D	Asst.Prof	15.04.2011	Maths	50%	50%	-
50	V.Krishnaraj	M.Sc.,M.Phil	Asst.Prof	18.05.2012	Maths	50%	50%	-
51	N.Sheebha Florance	M.Sc.,M.Phil	Asst.Prof	04.06.2012	Maths	100%	-	-
52	S.Vanitha	M.Sc.,M.Phil	Asst.Prof	03.08.2015	Maths	100%	-	-

53	S.Uthamapriya	M.Sc.,M.Phil	Asst.Prof	24.08.2015	Maths	100%	-	-
54	R.Shakthivel	M.Sc.,M.Phil	Asst.Prof	27.08.2015	Maths	100%	-	-
55	Dr.S.Harikrishnan	Ph.D	Asst.Prof	15.06.2016	Maths	100%		
56	Dr.R.Saravanan	Ph.D	Ph.D Asst.Prof 15.0		Maths	100%		
57	Dr.S.Anita	Ph.D	Professor / FT	08.10.2001	FT	100%	-	-
58	M.Sugumaran	ME	Asst.Prof / EEE	22.07.2013	EEE	100%	-	-
59	P.Srinivasan	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-
60	S.Senthil Kumar	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-
61	K.Sridevi	ME	Asst.Prof / CSE	19.07.2013	CSE	100%	-	-
62	K.Vaishnavi	ME	Asst.Prof / CSE	02.08.2013	CSE	100%	-	-
63	P.Abinaya	ME	Asst.Prof / CSE	30.07.2014	CSE	100%	-	-
64	M.Janani	ME	Asst.Prof / CSE	06.08.2015	CSE	100%	-	-
65	K.S.Priyadharshini	ME	Asst.Prof / Mech	01.06.2015	MECH	100%	-	-
66	J.Raja	ME	Asst.Prof / EEE	01.03.2016	EEE	100%	-	-
67	P.Kumarasan	ME	Asst.Prof / ECE	01.03.2016	EEE	100%	-	-
68	S.S.Suresh	ME	Asst.Prof / EEE	01.06.2016	EEE	100%	-	-

The list of faculty teaching first year courses for the academic year 2015-2016 and 2014-2015 is given in **Annexure 8.1.**

Table 8.4 First Year Academics Performance of students for the Year 2014-2015

DEPARTMENT	Number of Students appeared in Exam	Number of Successful Students	Total Grade Point Average of all Successful students
Civil Engineering	119	118	907.98
Computer Science and Engineering	132	132	997.4
Electronics and Communication Engineering	120	120	947.72
Electrical and Electronics Engineering	120	120	926.46
Information Technology	122	119	943.16
Mechanical Engineering	186	186	1421.79
Fashion Technology	100	100	763.76
SUM/TOTAL	899	899	6908.27
Mean of the grade point	of marks of all Succ	essful students	7.68
	Academic Perfo	rmance CAYm2	7.68

Table 8.5 First Year Academics Performance of students for the Year 2015-2016

DEPARTMENT	Number of Students appeared in Exam	Number of Successful Students	Total Grade Point Average of all Successful students
Civil Engineering	111	111	852.73
Computer Science and Engineering	122	122	955.66
Electronics and Communication Engineering	158	158	1242.1
Electrical and Electronics Engineering	117	117	901.41
Information Technology	123	120	930.85
Mechanical Engineering	173	173	1299.36
Fashion Technology	113	113	813.52
SUM/TOTAL	917	917	6995.63
Mean of the percentage	of marks of all Succe	essful students	7.62
	Academic Perfor	mance CAYm1	7.62

Table 8.6 First Year Academics Performance of students for the Year 2016-2017

DEPARTMENT	Number of Students appeared in Exam	Number of Successful Students	Total Grade Point Average of all Successful students
Civil Engineering	103	102	757.9
Computer Science and Engineering	158	158	1216.75
Electronics and Communication Engineering	148	148	1127.58
Electrical and Electronics Engineering	104	104	798.65
Information Technology	92	90	687.73
Mechanical Engineering	163	163	1168.33
Fashion Technology	87	87	612.05
SUM/TOTAL	855	855	6368.99
Mean of the percentage	of marks of all Succe	essful students	7.45
	Academic Per	formance CAY	7.45

Table 8.7 First Year Academics Performance of students for the Year 2017-2018

DEPARTMENT	Number of Students appeared in Exam	Number of Successful Students	Total Grade Point Average of all Successful students		
Civil Engineering	106	106	811.65		
Computer Science and Engineering	176	176	1353.05		
Electronics and Communication Engineering	137	137	1050.97		
Electrical and Electronics Engineering	100	100	759.77		
Information Technology	101	101	766.93		
Mechanical Engineering	168	168	1256.26		
Fashion Technology	96	96	709.99		
SUM/TOTAL	884	884	6708.62		
Mean of the percentage	of marks of all Succe	essful students	7.59		
	Academic Pe	rformance CAY	7.59		

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8.4.1	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome of first year is done	(5)

As explained in section 2.2.2 in criteria 2, the following are the assessment patterns for different regulations.

Table 8.8 Theory Course Assessment pattern - Regulation 2010R

S.No	Assessment	Marks	Weightage
1	CIE Test 1	50	04
2	CIE Test 2	50	04
3	CIE Test 3	50	04
4	Model Examination	100	08
5	Assignment	05	05
		Total	25

Table 8.9Theory Course Assessment pattern – Regulation 2014, 2015 and 2015R

S.No	Assessment	Marks	Weightage
1	CIE Test 1	50	06
2	CIE Test 2	50	06
3	CIE Test 3	50	06
4	Online Test	50	07
	(One word)		
5	Model Examination	100	08
6	#Attendance	100	05
7	*Assignment 1	20	04
8	*Assignment 2 / Seminar / Quiz	20	04
		Total	40

Table 8.10 CO-PO Mapping 2014 Regulation

Course Code	Course Title	со	Course Outcome Statements	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
	Technical English - I	CO1	Use Grammar components effectively in both written and spoken communication					2	2	2	3	3	3	3	3	2	2
		CO2	Develop and demonstrate good listening skills for academic and professional purposes					2	2	2	3	3	3	3	3	2	2
U14ENG101		CO3	Draw conclusions on explicit and implicit oral information					2	2	2	3	3	3	3	3	2	2
		CO4	Develop effective reading skills and reinforce the skills required for grammar and vocabulary building					2	2	2	3	3	3	3	3	2	2
		CO5	Read for gathering and understanding information and following directions					2	2	2	3	3	3	3	3	2	2

		CO1	Determine Eigen vectors and reduce matrices from one form to another form	3	3	3	3	1	1			1	2	2	2
U14MAT102	Multivariable Calculus and Matrices	CO2	Interpret curvature, calculate the radius of curvature, center of curvature and find the evolutes, involutes, envelope of curves and solve partial differentiation	3	3	3	3	1	1			1	2	2	2
		CO3	Work out functions of several variables, Jacobian's, Taylor's Theorem, compute the maximum & minimum values and Lagrange's Method	3	3	3	3	1	1			1	2	2	2
		CO4	Work out area of plane of region, length of the plane curve and area of surface of solid.	3	3	3	3	1	1			1	2	2	2
		CO5	Work out the double & triple integrals, discuss the change of order of integration, multiple integrals to find the area & volume	3	3	3	3	1	1			1	2	2	2

U14PHY103	Engineering Physics	CO1	Explain the theory of crystals, structure of crystals and defects in crystals	3	1	1					1	2	2
		CO2	Explain the theory of optoelectronics with applications	3	1	1					1	2	2
		CO3	Explain the concepts of electrodynamics as applicable to engineers	3	1	1					1	2	2
		CO4	Describe quantum mechanics theory and basic wave equations	3	1	1					1	2	2
		CO5	Analyze different types of microscopes and discuss the theory of nanophysics	3	1	1					1	2	2
U14CHE104	Engineering Chemistry	CO1	Analyze the types of polymers, polymerization reactions, polymerization techniques and fabrication methods of polymers for engineering applications	3	1	1					1	1	1
		CO2	Discuss the basic principles of electrochemistry and its applications	3	1	1					1	1	1

CO3	Analyze the types of corrosion and the various control methods for corrosion prevention	3	1	1					1	1	1
CO4	Describe the construction, working principle and applications of energy storage device for electronic appliances	3	1	1					1	1	1
CO5	Discuss the principles, advantages and applications of organic electronic materials used in electronic devices.	3	1	1					1	1	1

		CO1	Explain the fundamentals of DC machines	3	3	3	3				2	2	2	3	3
		CO2	Explain the fundamentals of AC machines	3	3	3	3				2	2	2	3	3
U14BEE106	Basic Electrical and Electronics	CO3	Explain the principles of Magnetic circuits	3	3	3	3				2	2	2	3	3
	Engineering	CO4	Explain the basics of Electronics and details of Diode and Zener diode	3	3	3	3				2	2	2	3	3
		CO5	Evaluate various Number Systems and to realize the logic functions by using various gates	3	3	3	3				2	2	2	3	3
		CO1	Examine the use of databases in the context of managing large amount of data	2		2	1	2	1		2	1	1	2	2
	Fundamentals of	CO2	Identify basic components of a computer system	2		2	1	2	1		2	1	1	2	2
U14FOC105	Fundamentals of Computing	C03	Explain from various viewpoints the purpose of Database Management Systems	2		2	1	2	1		2	1	1	2	2
			Apply knowledge of computing and mathematics appropriate to the discipline	2		2	1	2	1		2	1	1	2	2

		CO5	Analyze the local and global impact of computing on individuals, Organizations and society.	2		2	1	2	1		2	1	1	2	2
		CO1	Construct an experimental setup to form interference fringes and use it to determine the thickness of the given thin wire	1						1	2		1	1	1
U14PCL107	Physics & Chemistry Laboratory - I	CO2	Demonstrate by means of an appropriate experiment the poor thermal conductivity of a given bad conductor	1						1	2		1	1	1
		CO3	Estimate the amount of total, temporary and permanent hardness in the given sample of water	1						1	2		1	1	1
		CO1	Identify the different ports, peripherals of computer hardware	2	2	2	2	2	1		2		2	2	2
U14CPL108	Computer Practices	CO2	Partition ,format hard disks and Install system software and application software	2	2	2	2	2	1		2		2	2	2
	Laboratory	CO3	Modify control panel settings, install antivirus software, backups, archival utilities and write in CD	2	2	2	2	2	1		2		2	2	2
U14EPL109	Engineering Practices Laboratory	CO1	Verify Ohm's Law, Kirchhoff's Law and measure power and power factor for RC, RL, RLC Series and Parallel circuit.	3	3	3	3				2	2	2	3	3

		CO2	Study the pipe connection requirements for pumps and turbines and demonstrate on basic machining	3	3	3	3					2		2	2	3	3
		CO3	Evaluate the VI Characteristics of PN Junction Diode, Zener Diode and verify the truth table for logic gates.	3	3	3	3					2		2	2	3	3
		CO1	Frame sentences correctly, both in written and spoken forms of language with accuracy and fluency					2	2	2	3	3	3	3	3	2	2
		CO2	Introduce themselves deliver speeches and make technical presentation					2	2	2	3	3	3	3	3	2	2
U14ENG201	Technical English – II	CO3	Speak effectively in real time and business situations					2	2	2	3	3	3	3	3	2	2
		CO4	Draft emails, formal letters and Resume					2	2	2	3	3	3	3	3	2	2
		CO5	Write reports and proposals, memos and checklists					2	2	2	3	3	3	3	3	2	2
	Vector Calculus,	CO1	Work out on different types of ordinary differential equations and use various methods to solve differential equations	3	3	3	3	1	1					1	2	2	2
U14MAT202	Differential Equations and Complex Analysis	CO2	Compute vector functions, operators and use different methods of solving line, surface and volume integrals.	3	3	3	3	1	1					1	2	2	2

		CO3	Describe special features of function of a complex variable, Properties and solve the problems involving conformal mapping.	3	3	3	3	1	1			1	2	2	2
		CO4	Work out the power series expansion of a complex function and the procedures of evaluating the complex integral.	3	3	3	3	1	1			1	2	2	2
		CO5	Work out problems on Laplace transform its inverse, properties and solve an ordinary Differential equation using Laplace transforms.	3	3	3	3	1	1			1	2	2	2
	Material	CO1	Distinguish between electrical and thermal conductivity based on classical free electron theory of solids and apply Fermi distribution function to calculate carrier concentration in metals.	3	1	1							1	2	2
U14PHY203	Science	CO2	Differentiate intrinsic and extrinsic semiconductors, analyze the variation of Fermi level with temperature and apply Hall effect to determine the nature of charge carriers.	3	1	1							1	2	2

		CO3	Discuss the properties and applications of magnetic and super conducting materials.	3	1	1					1	2	2
		CO4	Explain the different types of polarization process in dielectric materials, their frequency and temperature dependence and discuss the causes of dielectric breakdown	3	1	1					1	2	2
		CO5	Describe metallic glasses and shape memory alloys and explain the synthesis, properties and applications of nano materials and carbon nano tubes	3	1	1					1	2	2
U14CHE205A	Chemistry for Electrical and Electronics Engineers	CO1	Analyze the types of polymers, polymerization reactions, polymerization techniques and fabrication methods of polymers for engineering applications.	3	1	1					1	1	1

		CO2	Describe the importance of various types of food products and their biological importance.	3	1	1							1	1	1
		CO3	Discuss the role of Chemistry in day to day life.	3	1	1							1	1	1
		CO4	Identify the various types of fuels, and explain their chemical compositions, properties and applications in engineering field.	3	1	1							1	1	1
		CO5	Outline the principle of organic electronic materials and its applications in the fabrication of electronic devices.	3	1	1							1	1	1
U14CPR206	Programming in C	CO1	Develop C Programs using basic programming concepts	2	2	2	2	2	1		2		2	2	2
014CPR200	rrogramming in C	CO2	Develop C programs using arrays and strings	2	2	2	2	2	1		2		2	2	2

		CO3	Develop applications in C using functions , pointers and structures & input/output and file handling in C	2	2	2	2	2	1		2		2	2	2
		CO4	Write C program for simple applications of real life using structures and files	2	2	2	2	2	1		2		2	2	2
		CO5	Explain role of Operating system in computer system and applications of computer networks	2	2	2	2	2	1		2		2	2	2
		CO1	Develop in student's graphic skill for communication of concepts, ideas and design of engineering products	2		2		1	1			1	1	1	1
U14EGR207	Engineering Graphics	CO2	Develop special curves such as polygons helices and screw threads	2		2		1	1			1	1	1	1
		CO3	Develop the different shapes of machine components	2		2		1	1			1	1	1	1

		CO4	Create drawings for fabricating boilers, chimneys, ducts and machine structures	2		2		1	1			1	1	1	1
		CO5	Develop the solids and surfaces	2		2		1	1			1	1	1	1
		CO1	Demonstrate the application of a diode laser to determine the characteristics of a given optical fibre	3	1	1							1	1	1
U14PCL208	Physics & Chemistry Laboratory – II	CO2	Demonstrate the estimation of hydrochloric acid present in the given solution using pH meter	3	1	1							1	1	1
		CO3	Estimate the mixture of acids by conductometry	3	1	1							1	1	1
		CO1	Develop C Programs using basic programming concepts	2	2	2	2	2	1		2		2	2	2
U14CPL209	C Programming	CO2	Develop C programs using arrays and strings	2	2	2	2	2	1		2		2	2	2
	Laboratory	CO3	Develop applications in C using functions , pointers and structures & input/output and file handling in C	2	2	2	2	2	1		2		2	2	2

ATTAINMENT OF COURSE OUTCOMES

The assessment processes are carried out based on the procedure described in criteria 3.

The table below shows the attainment of course outcomes through direct and indirect assessment for 2014-2018 Batch.

Course Code	Name of the subject	COs	Direct Value	Indirec t Value	Total
		CO1	99.15	84.62	94.79
		CO2	99.15	83.76	94.53
U14ENG101	Technical English – I	CO3	99.15	84.33	94.70
		CO4	100.00	84.90	95.47
		CO5	100.00	86.04	95.81
		CO1	88.03	78.92	85.30
		CO2	88.03	80.91	85.90
U14MAT102	Multivariable Calculus and Matrices *	CO3	88.89	83.48	87.26
		CO4	79.49	82.62	80.43
		CO5	79.49	81.48	80.09
		CO1	85.47	85.75	85.56
		CO2	88.89	86.61	88.21
U14PHY103	Engineering Physics *	CO3	94.87	85.47	92.05
		CO4	92.31	85.75	90.34
		CO5	92.31	85.47	90.26
		CO1	82.91	85.19	83.59
		CO2	90.60	83.19	88.38
U14CHE104	Engineering Chemistry *	CO3	94.02	84.62	91.20
		CO4	90.60	85.75	89.15
		CO5	90.60	84.90	88.89
		CO1	74.36	78.92	75.73
U14FOC105	Fundamentals of Computing Systems *	CO2	76.92	85.19	79.40
0141 00103	Tunidamentals of Computing Systems	CO3	76.92	81.48	78.29
		CO4	87.18	84.33	86.32

		CO5	87.18	85.47	86.67
		CO1	85.47	88.89	86.50
		CO2	92.31	88.32	91.11
U14BEE106	Basic Electrical & Electronics Engineering	CO3	93.16	87.75	91.54
		CO4	93.16	88.60	91.79
		CO5	93.16	88.32	91.71
		CO1	85.47	94.59	88.21
U14PCL107	Physics & Chemistry Laboratory-1	CO2	92.31	94.02	92.82
		CO3	95.73	96.58	95.98
		CO1	79.49	95.44	84.27
U14CPL108	Computer Practices Laboratory *	CO2	93.16	94.87	93.68
		CO3	93.16	95.16	93.76
		CO1	98.29	96.58	97.78
U14EPL109	Engineering Practices Laboratory *	CO2	99.15	95.73	98.12
		CO3	100.00	96.01	98.80
		CO1	92.31	77.78	87.95
		CO2	96.58	84.90	93.08
U14ENG201	Technical english – ii	CO3	100.00	79.49	93.85
		CO4	100.00	74.36	92.31
		CO5	100.00	79.49	93.85
		CO1	84.62	78.35	82.74
	Vector calculus, differential equations and	CO2	84.62	88.32	85.73
U14MAT202	complex analysis	CO3	82.05	78.35	80.94
	complex unarysis	CO4	86.32	76.92	83.50
		CO5	86.32	83.19	85.38
		CO1	98.29	88.60	95.38
		CO2	94.87	84.62	91.79
U14PHY203	Material science	CO3	88.89	79.77	86.15
		CO4	96.58	85.47	93.25
		CO5	96.58	78.63	91.20

		CO1	87.18	79.49	84.87
	Chemistry for electrical and electronics	CO2	79.49	83.19	80.60
U14CHE205A	engineers	CO3	70.94	82.62	74.44
		CO4	69.23	81.48	72.91
		CO5	69.23	81.48	72.91
		CO1	75.21	94.02	80.85
		CO2	68.38	90.03	74.87
U14CPR206	Programming in c	CO3	59.83	87.46	68.12
		CO4	64.10	92.02	72.48
		CO5	64.10	89.74	71.79
		CO1	86.32	81.20	84.79
		CO2	87.18	84.05	86.24
U14EGR207	Engineering graphics	CO3	84.62	86.32	85.13
		CO4	90.60	87.18	89.57
		CO5	90.60	83.19	88.38
		CO1	100.00	86.61	95.98
U14PCL208	Physics and chemistry laboratory - ii	CO2	100.00	91.17	97.35
		CO3	88.89	87.75	88.55
		CO1	100.00	91.45	97.44
U14CPL209	C programming laboratory	CO2	98.29	90.03	95.81
		CO3	77.78	90.03	81.45
	Basic Electrical And Electronics Engineering	CO1	100.00	90.31	97.09
U14BEEL210	Laboratory	CO2	100.00	91.17	97.35
	,	CO3	76.92	91.45	81.28

The following table shows the PO and PSO attainment

Table: 8.14 PO and PSO Attainment for the Batch (2014 – 2018)

COURSE CODE	COURSE TITLE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
U14ENG101	TECHNICAL ENGLISH – I	0.00	0.00	0.00	0.00	95.06	95.06	95.06	95.06	95.06	95.06	95.06	95.06	95.06	95.06
U14MAT102	MULTIVARIABLE CALCULUS AND MATRICES	83.79	83.79	83.79	83.79	83.79	83.79	0.00	0.00	0.00	0.00	83.79	83.79	83.79	83.79
U14PHY103	ENGINEERING PHYSICS	89.28	89.28	89.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.28	89.28	89.28
U14CHE104	ENGINEERING CHEMISTRY	88.24	88.24	88.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.24	88.24	88.24
U14FOC105	FUNDAMENTALS OF COMPUTING SYSTEMS	81.28	0.00	81.28	81.28	81.28	81.28	0.00	0.00	81.28	0.00	81.28	81.28	81.28	81.28
U14BEE106	BASIC ELECTRICAL & ELECTRONICS ENGINEERING	90.53	90.53	90.53	90.53	0.00	0.00	0.00	0.00	90.53	0.00	90.53	90.53	90.53	90.53
U14PCL107	PHYSICS & CHEMISTRY LABORATORY-1	92.34	0.00	0.00	0.00	0.00	0.00	92.34	0.00	92.34	0.00	0.00	92.34	92.34	92.34
U14CPL108	COMPUTER PRACTICES LABORATORY	90.57	90.57	90.57	90.57	90.57	90.57	0.00	0.00	90.57	0.00	0.00	90.57	90.57	90.57
U14EPL109	2 ENGINEERING PRACTICES LABORATORY	98.23	98.23	98.23	98.23	0.00	0.00	0.00	0.00	98.23	0.00	98.23	98.23	98.23	98.23
U14ENG201	TECHNICAL ENGLISH – II	0.00	0.00	0.00	0.00	92.21	92.21	92.21	92.21	92.21	92.21	92.21	92.21	92.21	92.21
U14MAT202	VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND COMPLEX ANALYSIS	83.66	83.66	83.66	83.66	83.66	83.66	0.00	0.00	0.00	0.00	83.66	83.66	83.66	83.66

U14PHY203	MATERIAL SCIENCE	91.56	91.56	91.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.56	91.56	91.56
U14CHE205 A	CHEMISTRY FOR ELECTRICAL AND ELECTRONICS ENGINEERS	77.15	77.15	77.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.15	77.15	77.15
U14CPR206	PROGRAMMING IN C	73.62	73.62	73.62	73.62	73.62	73.62	0.00	0.00	73.62	0.00	0.00	73.62	73.62	73.62
U14EGR207	ENGINEERING GRAPHICS	86.82	0.00	86.82	0.00	86.82	86.82	0.00	0.00	0.00	0.00	86.82	86.82	86.82	86.82
U14PCL208	PHYSICS AND CHEMISTRY LABORATORY - II	93.96	93.96	93.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.96	93.96	93.96
U14CPL209	C PROGRAMMING LABORATORY	91.57	91.57	91.57	91.57	91.57	91.57	0.00	0.00	91.57	0.00	0.00	91.57	91.57	91.57
U14BEEL21 0	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LABORATORY	91.91	91.91	91.91	91.91	0.00	0.00	0.00	0.00	91.91	0.00	91.91	91.91	91.91	91.91

Actions taken based on the results of evaluation of relevant POs

(5)

Table 8.15 PO Attainment Levels and Actions for improvement or Batch 2014-2018

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

POs Attainment Levels and Action taken for improvement – (2017-2018) CAYm							
POs	Target Level	Attainment Level	Observations				
PO1: Utilize the basic knowledge in mathematics, science and Engineering in Electronics and							
Communication	Communication Engineering field						
PO1	77%	85.22%	 Target achieved Attainment Level need to be improved in 18.5 % of the courses. 				

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO2: Identify, formulate and solve the complex problems to achieve demonstrated conclusions using mathematical principles and engineering sciences.

PO2	77%	82.53%	 Target achieved Attainment Level need to be
			improved in 14.8 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO3: Design system components that meet the requirement of public safety and offer solutions to the societal and environmental concerns.

			1. Target achieved
PO3	77%	84.71%	2. Attainment Level need to be
			improved in 16.7 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO4: Apply the research – based knowledge to design and conduct experiments, analyze, synthesize and interpret the data pertaining Electronics and Communication Engineering problems and arrive at valid conclusions.

			Target achieved
PO4	77%	81.49%	2. Attainment Level need to be
			improved in 14.8 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO5: Construct, choose and apply the techniques, resources and modern engineering tools required for electronics and Communication Engineering applications.

-			
PO5	77%	81.94%	1. Target achieved
			2. Attainment Level need to be
			improved in 11.11 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.

- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO6: Apply the contextual knowledge to assess societal, health, safety and cultural issues and endure the consequent responsibilities relevant to the professional engineering practice.

PO6	77%	77.18%	 Target achieved Attainment Level need to be
			improved in 12.9 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO7: Examine the impact of Engineering solutions in global and environmental contexts and utilize the knowledge for sustained development.

PO7 77% 77.36% 2. Attainment Level need to be improved in 1.8 % of the courses.	
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Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO8: Develop consciousness of professional, ethical and social responsibilities as experts in the field of Electronics and Communication Engineering

PO8	77%	77.99%	Target achieved
100	7 7 70	77.3370	Attainment Level need to be

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Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO9: Perform effectively as a member / leader in multidisciplinary teams							
PO9	77%		 Target achieved Attainment Level need to be improved in 3.7 % of the courses. 				

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PO10: Communicate the engineering activities to engineering society to prepare for documentation and presentation.

			1. Target achieved
PO10	77%	80.26%	2. Attainment Level need to be
			improved in 9.2 % of the courses.

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.

6. Conducted research / innovation awareness program among students and faculty members.

PO11: Demonstrate knowledge and understanding of the engineering and management principles to manage projects in multidisciplinary environment

PO11 77%	84.32%	 Target achieved Attainment Level need to be improved in 16.7 % of the courses.
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Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

	PO12:Demonstrate resourcefulness for contemporary issues and lifelong learning						
	PO12	77%		 Target achieved Attainment Level need to be 			
'	1012			improved in 16.7 % of the courses.			

Action taken

- 1. The students were found lagging in analytical part. To overcome this, workshops were conducted with experts from Industry. In addition to that tutorial hours are handled by two faculty members.
- 2. Additional coaching classes were conducted beyond the regular planned classes.
- 3. Students are motivated by using the teaching learning tools like Blackboard and Lecture capture systems.
- 4. Allowing students to visit industries to get practical exposure.
- 5. Conducted workshop handled by industry experts.
- 6. Conducted research / innovation awareness program among students and faculty members.

PSOs Attainment Levels and Action taken for improvement – (2017-2018) CAYm

PSOs	Target Level	Attainment Level	Observations				
PSO1:Apply the fundamental concepts of Electronics and Communication Engineering to design							
a variety of com	a variety of components and systems for applications including signal processing, image						
processing, communication, networking, embedded systems, VLSI and control systems							
PSO1 77% 81.44% 1. Target achieved							
Action Taken							

- 1. Teaching Learning tools Lecture Capture System, Black board, Moodle, etc.
- 2. Students are motivated to do mini projects on recent technologies.
- 3. Set- up embedded laboratory for experimentation models.
- 4. Students are given technical training for improving their skills.

PSO2: Select and apply cutting-edge engineering hardware and software tools to solve complex Electronics and Communication Engineering problems

PSO2 77% 84.27% 1. Target achieved

Action Taken

- 1. Teaching Learning tools Lecture Capture System, Black board, Moodle, etc.
- 2. Students are motivated to do mini projects on recent technologies.
- 3. Set- up Embedded laboratory for experimentation models.
- 4. Students are given technical training for improving their skills.

CRITERION 9 STUDENT SUPPORT SYSTEMS

9.1 Mentoring system to help at individual level (5)

Sona College of Technology is working towards enhancing the educational culture to better serve the needs of vibrant learning community. Effective mentoring begins with the faculty. When it comes to academic success and persistence, there should be a healthy relationship among faculty members and students. Mentoring and guidance shall be on the following aspects:

- Academic guidance
- Career guidance
- Encouraging students to take up mini projects and internships/industrial trainings
- Motivating to pursue Co-curricular, Extra-curricular activities and social activities
- Encouraging students to participate in arts and sports events
- Personality and character development

The following summarizes the system in place to provide the aforementioned aspects to students.

Class Counselor (CC)

An effective student mentoring system has been implemented in the institution. A CC is being appointed for every batch of students when they are in their second year and they hold the responsibility until their completion of the program.

First year students have CCs from the General Engineering department and at the end of first year they will hand over formally the records of those students to the department. The CCs will maintain all records of their respective wards assigned to them and generally counsel them on maintaining good attendance, discipline and academic performance. CCs will maintain a complete database of their wards starting from their personal details, academic performance, attendance, co-curricular /extracurricular participation/ achievements and the details of parent meetings.

Faculty Advisor (FA)

To monitor the performance of students on a regular basis and to counsel and motivate them throughout their course, the HODs of individual departments allocate around 15 students to each and every faculty in the department who shall function as Faculty Advisor (FA) for those students throughout their period of study. FAs shall advise the students, monitor the courses undergone by them, monitor their performance in tests and also look into their personal difficulties.

Each Faculty advisor has been given a Student Counseling Record book for every student allotted to monitor their progress continuously. The Faculty advisor also keeps track of student activities like Co-curricular, Extra Curricular achievements and Social activities. This record book will be frequently reviewed by the Head of the Department.

Attendance shortage, performance in the CIE tests will be counseled with care. If FAs have identified that the students have certain personal or any other problem which cannot be sorted from their level, they would be directed to the Academic Coordinator and Senior Counselor through CC and HOD.

FAs will be submitting the details of the low performers to the CCs, Academic Coordinator and HOD for mentoring in order to improve his/her performance in the subsequent tests. The parents shall always be informed regarding the progress as well as problems. This team will scrutinize case by case and suggest corrective measures, if necessary. Then, the team will have discussions with the parents and student counselor (centrally appointed by the Institution).

Class Committee

Each class of various sections shall have a Class Committee which is constituted by a Chairperson (faculty who does not handle courses for them), Class Counselors, faculty members teaching the courses for all the sections, and student representatives. This committee is formed with the overall goal of improving the effectiveness of the teaching-learning process and other activities of the students. Two subsequent meetings are held in a semester at suitable intervals. During these meetings, the student members representing the entire class shall meaningfully express the opinions and suggestions of the other

students of their class to improve teaching-learning process and also other grievances. The chairperson and teachers disseminate the activities carried out in the department. They inform the students about the activities such as schedule of placement training classes, participation of students in the extracurricular and co-curricular events, internship opportunities, industry training and workshops, inviting volunteers for other activities in the department and many others. The functions of the Class Committee include

- Solving issues faced by students in the class room and in the laboratories.
- Clarifying the regulations of their degree program and the details of rules therein.
- Informing the student representatives about the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives the details of regulations regarding Weightage used for each assessment. In the case of practical courses (Laboratory experiments /Engineering drawing/project work/seminar/Internship etc.), the breakup of marks for each experiment/exercise/module of work.
- Analyzing the performance of the students of the class after each test and finding the ways to improve it.
- Identifying slow learners, if any, and requesting the teachers concerned to provide some additional help or guidance/ coaching to such students.

The Chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Department within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are any points requiring support and action from the Management, the same shall be brought to the notice of the Management through the Principal.

Efficacy of Mentoring System:

Establishment of the above stated mentoring system has help us in the following ways

- 1. Enhanced the teaching learning process to be more student centric
- 2. Created a positive work environment

- 3. Helped the students learn to take better control of his or her career
- 4. Provided impartial advice and encouragement to students
- 5. Developed a supportive relationship between students and staff
- 6. Assisted with problem solving and Improved self-confidence of students
- 7. The CIE Performance and Semester end Exam performance of students has improved
- 8. Obtained gradual improvement in attendance percentage of students
- 9. Was able to provide individual and personal care to the students with the help of Faculty Advisors
- 10. Information gathering and dissemination was easy

9.2. Feedback analysis and reward /corrective measures taken, if any (10)

9.2.1 Feedback collected for all courses: YES

9.2.2 Feedback Collection Process

The teaching-learning system followed by any educational institution needs continuous refinement. To capacitate this process of continuous refinement, the institution has adopted a feedback system that takes suggestions from students of each program. This eventually helps to fine-tune the teaching-learning process and the curriculum. The institution follows a well-defined and formal feedback system. It has been identified as one of the important process in our Quality Management System.

The feedback from students regarding the quality of teaching is collected during each semester, through the Management Information System (MIS) and MOODLE (local server). The students' feedback collection process is depicted in Figure 9.1. In the middle of the semester, the students are asked to respond to a feedback questionnaire with 20 questions. Once the feedback process is complete, the reports are generated automatically based on the formula. The consolidated report containing grade for each course is sent to the respective Heads of the department and the information is disseminated to the faculty in the department. Corrective actions are taken for the faculty members who have obtained C and D grades by the Head of the Department.

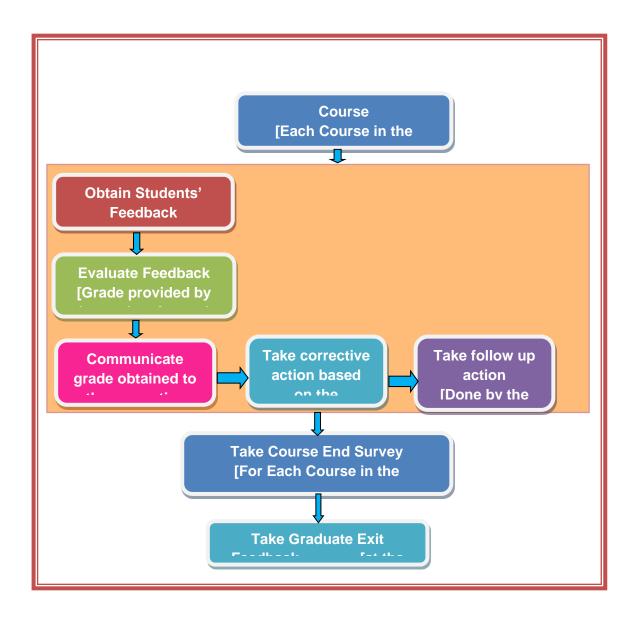


Figure 9.1 Student Feedback Process

Student Feedback questionnaire:

S . N o	Title of the Course:	Strongl y Agree (S1)	Agre e (S2)	Neutr al (S3)	Disagre e (S4)	Strongly Disagree (S5)
	My teacher	5	4	3	2	1
1	Explains clearly the Course Outcomes (COs) of the course	3		3	2	1
2	Shows how the COs are related to the Programme Outcomes (POs)					
3	Provides a copy of the POs, COs and syllabus of the course					
4	Teaches in class according to the syllabus					
5	Provides a well-organised Textbook, Course Material or Handouts					
6	Organises class activities (Videos/Quizzes/Demos/ etc) that help me learn					
7	Speaks in English throughout the class; explains topics in Tamil at students' request after the class					
8	Lectures in a clear and easily audible voice					
9	Makes use of Chalkboard / PowerPoint / CBT during lessons, whenever necessary					
1	Uses examples/stories/videos/etc as required to help me learn easily					
1	Works out course-related problems in the class					
1	Shows how application or situation-oriented questions can be answered					
1	Asks questions in class that helps me learn well					
1	Encourages students to ask questions in class and clears					

	doubts so we understand well			
1	Makes the class lively with timely jokes			
1	Gives individual feedback on CIE-Tests performance			
1	Treats all students impartially (fairly)			
1	Is in time for every class and ends the class in time			
1	Is polite in general and gives individual attention to all students			
2	Is also easily accessible outside of the classroom			

The evaluation of the feedback by the students is done as follows:

$$Marks = \frac{\left((\sum S1) * 5\right) + \left((\sum S2) * 4\right) + \left((\sum S3) * 3\right) + \left((\sum S4) * 2\right) + \left((\sum S5) * 1\right)}{X * 100}$$

where X is the total number of students participated in the feedback collection process.

The grades are assigned with the help of the following grade ranges:

Marks	91-100	81-90	71-80	61-70	<=60
Grade	A+	Α	В	С	D

Students' feedback regarding the teaching-learning process is also collected from students orally during class committee meetings. At the end of each semester, students are required to complete a semester Course End Survey. In this, students will be required to respond to questions that examine how well they have acquired the skills on learning the respective course and subsequently attainment of COs and thereby POs attainment is computed.

Course End Feedback Questionnaire:

Sample Course End survey collected at the end of fifth semester for 2010R

		10						
	DEPARTMENT OF ECE							
		B.E. ECE REGULATION 2010R Semester V						
U10GE	501BF	R Probability and Random Process						
S No	со	Questions	Strongly agree	Agree	Disag ree			
1.	CO1	I can explain the concepts of moments and its properties						
2.	CO2	I can estimate the covariance correlation and regression of random variables						
3.	CO3	I can classify the random process with examples						
4.	CO4	I can analyse the concept of power spectral density and cross spectral density						
5.	CO5	I can analyse the response of random variables to LTI system						
U10EC	502R	Analog Communication System						
S No	СО	Questions	Strongly agree	Agree	Disag ree			
1.	CO1	I can describe the generation and detection methods of various AM systems.						
2.	CO2	I can explain the various types of generation and demodulation methods of FM systems.						
3.	CO3	I can estimate the overall noise figure for cascaded amplifiers.						
4.	CO4	I can analyse and compare the noise performance of analog modulation systems.						
5.	CO5	I can evaluate the coding efficiency of different source coding techniques.						

U10EC	503R I	Digital Signal Processing			
S No	со	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can exploit the properties of discrete Fourier transforms and implement DFT using fast Fourier transform.			
2.	CO2	I can design and realize finite impulse response filters.			
3.	CO3	I can design and realize IIR filters.			
4.	CO4	I can analyze quantization effects and multirate signal processing.			
5.	CO5	I can discuss the architecture and addressing modes of digital signal processor TMS320C54.			
		U10EC504R Transmission Lines and V	Vaveguides		
S No	СО	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can analyse electromagnetic wave propagation in generic transmission line geometries.			
2.	CO2	I can design impedance matching transmission line and calculate the reflection coefficient, SWR, using smith chart.			
3.	CO3	I can analyse guided waves and their field pattern between parallel planes of perfect conductors.			
4.	CO4	I can design and measure the various propagating modes of rectangular wave guides.			
5.	CO5	I can derive the field equation of circular waveguides and resonators.			
		U10EC505R Microprocessor and its A	pplications		
S No	со	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can analyse the internal architecture of 8085 and write assembly language program in 8085µp.			
2.	CO2	I can interface various peripherals with			

		8085µp.			
3.	CO3	I can analyse internal architecture of 8086μp, addressing modes, instruction sets and write assembly language program using 8086μp.			
4.	CO4	I can apply the concepts of different coprocessors – numeric and I/O processor.			
5.	CO5	I can interface ROM, RAM, temperature controller and stepper motor.			
		U10EC506R Measurements and Instru	mentations		
S No	со	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can discuss the measurement errors, units, and standards.			
2.	CO2	I can design electromechanical instruments and bridges.			
3.	CO3	I can construct electronic instruments and oscilloscopes.			
4.	CO4	I can develop circuit for signal generators and frequency counters.			
5.	CO5	I can analyse different transducers, data acquisition system and fiber optic measurements.			
		U10GE502R Personality and Career Enha	incement - 1	III	
S No	со	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can build resume impressively.			100
2.	CO2	I can communicate effectively.			
3.	CO3	I can involve actively in group discussion, interviews and presentation.			
4.	CO4	I can develop public speaking skills.			
5.	CO5	I can participate actively in role play, and debate.			

U10E	C507R	Microprocessor Laboratory			
S No	со	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can develop programs for arithmetic operations, code conversion using 8085 Microprocessor.			
2.	CO2	I can write programs for arithmetic operations, code conversion using 8086 Microprocessor.			
3.	CO3	I can interface 8085 microprocessor with PPI, timer , keyboard and stepper motor.			
		U10EC508R Digital Signal Processing	Laboratory		
S No	со	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can perform Convolution and generation of signals using MATLAB and TMS320C54 Processor.	. 3		
2.	CO2	I can analyse sampling theorem and calculation of DFT using MATLAB and TMS320C54 Processor.			
3.	CO3	I can design of FIR and IIR filters using MATLAB and TMS320C54 processor.			
	U1	OEC509R Measurements and Instrument	ations Labor	atory	
S No	со	Questions	Strongly agree	Agree	Disag ree
1.	CO1	I can find the parameters - resistance, inductance and capacitance of the given bridge.	ug. cc		
2.	CO2	I can develop front panel structures using VI.			
3.	CO3	I can generate a LABVIEW code to perform various operations related to instrumentation			

At the end of the program (during 8th semester), exit survey is taken from the students to understand their level of attainment of their skills and expectations on the conduct of the department activities. The questionnaire is given below.

Graduate Exit Feedback Questionnaire

EXIT SURVEY

EXIT INTERVIEW FOR GRADUATING EVERGREEN STUDENTS

Dear Graduating Student:

Based on the learning experience for the past four years in the ECE program, please indicate the extent to which you possess the following abilities. The information you provide will allow us to provide student better services and compile critical data for the assessment of program outcomes

Name	:	Year of graduation	:	
E-mail Address	:			
Permanent Contact Number	:	Current Phone	:	
Permanent Address	:	Current Address	•	
		-		

S.N o	Questionnaire	РО	To a great extent	To a moderate extent	To a slight extent	To a very little extent	Not at all
1.	Able to utilize the basic knowledge in mathematics, science and engineering	1	5	4	3	2	1
2.	Able to solve complex problems using mathematical principles and engineering sciences.	2	5	4	3	2	1
3.	Capable of offering solutions to the societal and environmental issues	3	5	4	3	2	1
4.	Able to involve in	4	5	4	3	2	1

	research based						
	activities						
5.	Ease of handling	5	5	4	3	2	1
6.	Able to apply contextual	6	5	4	3	2	1
7.	Capable of utilizing the knowledge for continuous selfdevelopment.	7	5	4	3	2	1
8.		8	5	4	3	2	1
9.	Able to perform effectively as a member/leader in multidisciplinary teams	9, 11	5	4	3	2	1
10.	Able to communicate the engineering activities through documentation and presentation.	10	5	4	3	2	1
11.	Able to engage	12	5	4	3	2	1
12.	systems for applications	PSO 1	5	4	3	2	1
13.	Our students were able to select and apply cutting-edge engineering hardware and software tools to solve complex problems	PSO 2	5	4	3	2	1

Signature with date

9.2.3 Percentage of students who participated: 90 -100%

9.2.4 Feedback analysis process

The feedback collected from students are first analyzed at the level of HOD and then at the level of faculty appraisal committee, headed by the Principal. The contents of the feedback will be shared with each faculty member individually.

Basis of reward/corrective measures, if any:

The feedback system works as an eye opener for the faculty. Best faculty

award is given based on students' feedback, HOD's evaluation, the faculty's self-

appraisal report and the marks given by Faculty appraisal committee, headed by

Principal. The increments and promotions are also bearing some effect on these

scores. Those with low scores will be counseled and asked to improve their

performance in the subsequent semesters by incorporating team teaching and

attending pedagogical training and other faculty development programs.

The faculty members are constantly motivated by giving rewards. They are

given based on the factors performance such as

1. Award based on university examination results

2. Outstanding Overall performance in Research and publications.

3. Award for outstanding Grants and funds received

4. Congratulating the newly married couple, 15^{th} and 25^{th} wedding

anniversary couple

5. Appreciation of gratitude towards SONA (Completion of 8 to 20 of service)

9.2.5 Number of corrective actions taken in the last three years:

Faculty members whose feedback grade is less were counseled during last three

years. The counseling led to improvements in their performance and quality of

teaching. Training for the faculty in the area of interest is given to make them

improve the teaching skills.

Number of corrective actions taken during the assessment years:

2014-15: 10

2015-16: 17

2016-17: 01

9.3. Feedback on facilities (5)

This survey template can help collect feedback from students regarding the

resources and facilities available to them. We gather feedback on what could be

improved, and what could be added to improve their life at campus.

	S. No	Facilties					
			Excellent	Very Good	poog	Satisfactory	Need Improvement
			5	4	3	2	1
	1	Size					
ms	2	Lighting and Ventilation					
Classrooms	3	Audio & Video Quality in Smart Classroom					
Clas	4	Quality and Quantity of Furniture					
	5	Cleanliness					
	6	No of Computers					
puter Labs	7	Availability of Software					
յրլ La	8	Maintenance					
Computer Labs	9	Internet Connectivity					
	10	Anti-Virus					
ī	11	Accessibility of Wi-Fi in your institute with adequate bandwidth					
Wi-Fi	12	Reliability of Wi-Fi					
>	13	Availability of Support Staff to entertain student's queries					
	14	Food Prices					
	15	Hygiene and quality of food					
_	16	Quantity					
Canteen	17	Timings					
Cai	18	Menu					
	19	Service					
	20	Adequate sitting arrangement					
>	21	No of Washrooms					

		T = 1.	 		
	22	Cleanliness of Washroom all the time			
Water	23	Availability of ample water supply			
Drinking Water	24	Quality of drinking Water			
& Se	25	Support and promotion of sports activities by college authorities			
iviti	26	Enough space available to play sports in college			
r Act	27	Number of competitions held department wise			
Extra-Curricular Activities & Sports	28	Availability of extra time to prepare for college fest			
Extra-(Sports	29	Motivation from college authorities to participate and other college fest			
	30	Variety of Gym Equipment			
GYM	31	Timings			
6	32	Fees			
	33	Availability of Gym Instructor			

The following bar chart represents the response of the students to the survey taken on the provision and quality of various facilities available in the institution for the three academic years. The charts clearly elucidate the improvements in facilities provided. This proves that the management is keen in providing the best facilities to enable a comfortable environment for learning and research.

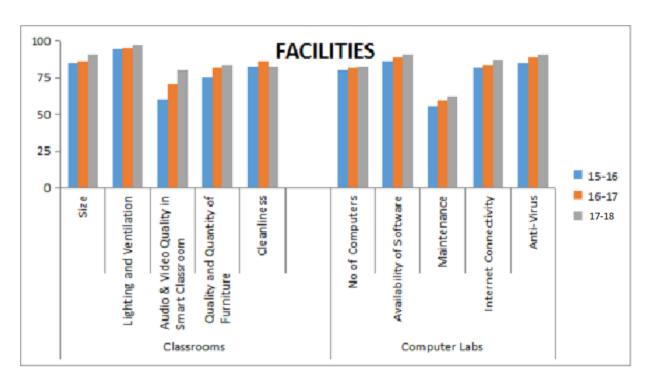


Figure 9.1 Feedback on facilities classrooms, computer labs

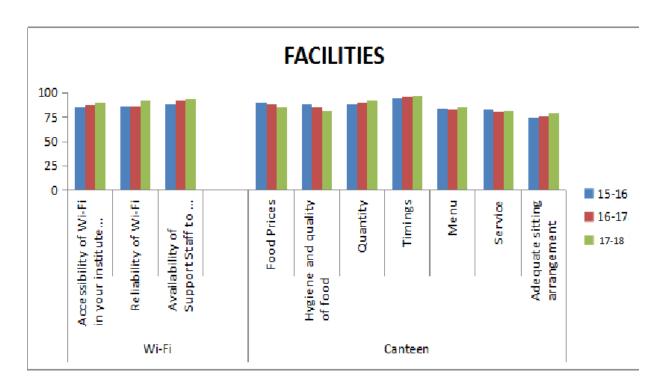


Figure 9.2 Feedback on facilities Wi-Fi, Canteen

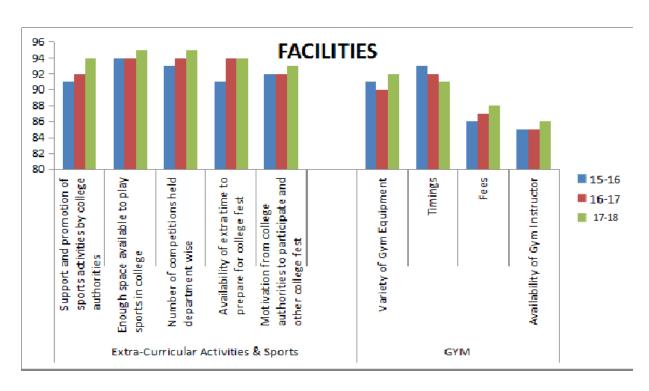


Figure 9.3 Feedback on facilities washroom, Drinking water

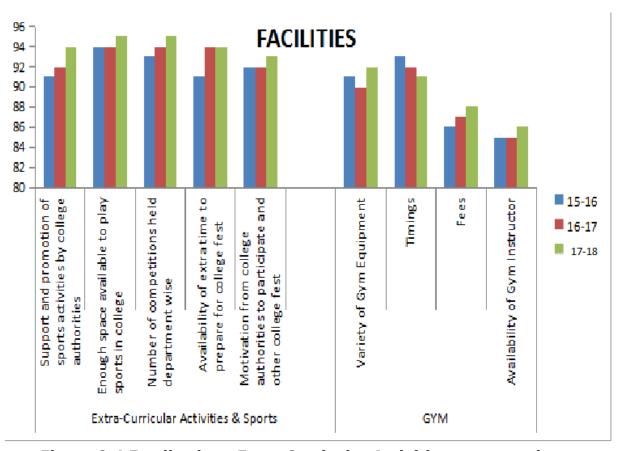


Figure 9.4 Feedback on Extra Curricular Activities sports and gym

9.4. Self-Learning (5)

- The curriculum offers courses like Mini project in the second and third year,pProject in the final year where the topics are selected by students themselves or based on suggestions by the supervisor. The component of self-learning is evaluated in these courses.
- Every student has to submit an assignment in every course which has been evaluated for 5 marks. Some of these tasks are beyond syllabus to encourage outstanding students to develop their self-learning capabilities.
- Seminars and works shops are organized for the students to enhance their skill.
- IGNITE -A Software exhibition conducted every year for the students to show case their innovative ideas through developments
- Intra Departmental Symposium and Inter College Symposiums are conducted yearly to encourage the students to participate in various contests which will help them to learn new technologies.
- Industrial visits are organized every year to give exposure to the students in the environment of real application development. These visits will also give opportunities to students to know the work culture of the organization.
- Students are given on-duty to participate in technical events conducted in other institutions where they are exposed to new technologies and practices.
- Students are encouraged to take MOOC courses from platforms such as Coursera and NPTEL.
- SONA is a Wi-Fi campus where students can learn through Internet.
- Students are provided with Internet access in all the labs and allow the students to do live coding.
- Students participate in programming contests like TGMC (The Great Mind Challenge Contest conducted by IBM), ACM ICPC (programming contest conducted by ACM), and Aspirations (programming contest conducted by Infosys) and so on. Participation in these contests provide insight into the world of the programming and application development.
- Students take up competitive examinations like GATE, TANCET, NAC-Test.

- Programming talent of the student is enhanced using the Sona Programming Club (SPROC)
- Students can have a broad idea about the current technologies using the books available in the Main/Department Library facilities.

9.5 Career Guidance, Training, Placement (10)

As a process that focuses on helping students understand their own strengths and weaknesses, and know what careers they would be best suited for, and how to pursue them, the institution has appointed a *Full time Placement Officer* who would be in-charge for providing Career guidance and placement trainings. In addition at least two Placement Coordinators are being nominated to manage placement activities of their respective department in coordination with the Placement officer.

The autonomous status had open up more opportunities to interact with industries. The college now has a placement plan of providing job for every single student who is eligible and opting to get placed. Achievements during the recent years prove its success.

The strategy for the coming years will be vertical based placement to help the students the career they wanted to pursue.

Training & Placement Cell

The aim of Training & Placement Cell of the institute is to see that the student is being placed in competitively good companies by identifying their knowledge skills, attitude matrices of every individual student, creating job profiles for them, identifying areas of training & various methods as per the training requirement, formulate sequence of activities to meet the training schedules for appropriate placement.

The overall role of the Training & Placement cell is of a facilitator and counselor for placement related activities. The placement cell is to act as contract place to arrange for campus visits and conduct of recruitment process of the perspective employers for the purposeful placement of students of the college.

To achieve its objective the cell liaises with the various industrial establishments and corporate houses. The Training & Placement office provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics.

Activities of the Training & Placement Cell:

1) Training: On line and off line training provided to students

a. Online aptitude training provided through following sites

- 1. www.aspiringminds.com
- 2. www.expanian.com
- 3. www.hackerrank.com
- 4. www.hackerearth.com
- 5. www.geeksforgeeks.org
- 6. www.hiremee.co.in

b. Offline training is being provided by

- 1. Arranging workshops for Communication skill, Personality Development, Aptitude and Personal Interview.
- 2. Arranging Guest Lectures regarding interview skills.
- 3. Organizing In plant Trainings & Industrial Visits.
- 4. Conducting training tests through BlackBoard and Moodle platforms.
- 5. Providing placement related books and course materials

2) Career Guidance:

- 1. Highlighting articles on departmental notice boards, regarding Competitive Exams and Industrial Career.
- 2. Creating awareness about career planning and career mapping among students
- 3. Providing additional coaching for GATE Exam/ Other Competitive preparation with the help of in-house faculty and online test series.
- 4. Providing Student counseling and career guidance by incorporating personality and career enhancement courses in the curriculum.
- 5. Providing training on life skills. They are also given training in the area of quantitative aptitude, logical reasoning and verbal reasoning.
- 6. Providing training for competitive examinations through Swadesh programme.
- 7. Conducting interaction programs through alumni

3) Placement:

- 1. Providing guidance for preparation of resume.
- 2. Communicating with Alumni for available openings.
- 3. Interacting with industries for campus interviews.
- 4. Arranging/Conducting campus interviews.
- 5. Conducting Mock interviews for the students to build up confidence in facing the interviewers. In this regard, the Panel members are invited from corporate sector and alumni members of the institution.
- 6. Training students on group discussion techniques.

Number of students placed through on-campus and off-campus placements:

Average pe	Average percentage of placement of outgoing students during the last five years							
Year	Number of students placed	Package received	Program graduated from					
2012 - 2013	602	2.75 Lakhs p.a.	CS,IT,ECE,EEE,MECH, CIVIL, MCA & MBA					
2013 - 2014	587	2.82 Lakhs p.a	CS,IT,ECE,EEE,MECH, CIVIL, MCA & MBA					
2014 - 2015	891	2.21 Lakhs p.a	CS,IT,ECE,EEE,MECH, CIVIL, MCA & MBA					
2015 – 2016	1044	2.52 Lakhs p.a.	CS,IT,ECE,EEE,MECH, CIVIL, MCA & MBA					
2016 – 2017	732	2.82 Lakhs p.a	CS,IT,ECE,EEE,MECH, CIVIL, MCA & MBA					
2017 - 2018	762	2.65 Lakhs p.a	CS,IT,ECE,EEE,MECH, CIVIL, MCA & MBA					

Table 9.1 Number of students placed through on-campus and off-campus placements

9.6 Entrepreneurship cell [EDC] (5)

Entrepreneurship today has become very significant, given that its being a key to economic growth and industrial development. The objectives of industrial development, regional growth, and employment generation depend upon entrepreneurial development. Entrepreneurs give greater employment opportunities to the unemployed youth. Knowing its benefits, the Institution has established an **Entrepreneurship Development Cell** that helps in inculcating the spirit of entrepreneurship among all the students. The EDC is headed by a Chief Coordinator supported by departmental co-coordinators.

Table 9.2 Events conducted / attended during the year 2014 - 2015

S.No.	Date	Name of the Programme
1.	03.04.2014	ED Cell conducted monthly training event titled
		"Vision Building" for I year & II year B.E.students at ED Cell Training Hall between 4.00 pm & 5.30 pm.
2.	23.04.2014	ED Cell & CSI Students Branch jointly organized "Seminar on Entrepreneurship" for B.E. CSE and M.E. students at Main Building Seminar Hall between 3.00 pm & 4.15 pm.
3.	05.06.2014	Chief Coordinator delivered a training lecture on pricing , costing and customer management to the participants of Prime Minister Employment Generation Programme(PMGEP) organized by Indian Bank Self Employment Training Institute (INDSETI) at Dharmapuri.
4.	19.06.2014	ED Cell & MBA Department jointly organized a seminar "Introduction to National Stock Exchange (NSE)" for the benefit of MBA & B.E/B.Tech faculty at Mechanical Conference Hall between 10.00 am & 11.35 am.
5.	19.07.2014	Chief Coordinator attended training programme "Art of Selling "organized by BMQR Certifications P.Ltd., Chennai at Hotel Ganesh Mahal, Salem.
6.	25.06.2014	Chief Coordinator along with 2 faculty participated in the "ICTACT Bridge 2014" industry-institute interaction programme at Coimbatore.
7.	22.07.2014	Conducted "Webinar" programme for the faculty between 2.00 pm & 3.15 pm.
8.	25.07.2014	Conducted ED Cell meeting about the topic "Marketing Strategy" for the ED Cell members.
9.	26.07.2014	Chief Coordinator attended "NEN Faculty Leaders Meet" at GRG School of Management Studies, Coimbatore.
10.	27.07.2014	Chief Coordinator delivered a lecture about "Motivation" to Final year MCA "A" section students of our college.
11.	29.07.2014	Chief Coordinator and 2 students attended a guest lecture

		programme on "Empowerment to Business and face the changes of Globalization" at Engineers Association Building, 4 Roads, Salem.
12.	08.08.2014	Chief Coordinator attended seminar on Business Opportunities and Incubation Support in Nanotechnology at PSG Tech. Coimbatore.
13.	12.08.2014	Chief Coordinator & Students attended a seminar "Star Trek – By CII, an experience sharing session" by Mr.B.Soundarajan, Chairman, Suguna Group of Companies (Poultries) organized by Sona School of Management.
14.	12.08.2004 & 13.08.2014	Students attended in "Induction Programme" for the First Year Students.
15.	14.08.2014	Chief Coordinator delivered a expert talk about "Entrepreneurship Awareness & Motivation" for I year MCA students
16.	25.08.2014	Conducted expert talk programme "Technology Based Business Opportunities – ASKME.COM" by Ms.Abirami, Manager & Channel Partner, Coimbatore between 5.00 pm & 6.00 pm.
17.	26.08.2014	Conducted monthly training / meeting 2 nd year Interaction session between 5.00 pm & 6.30 pm.
18.	04.09.2014	Conducted expert talk programme "Marketing the E-commerce products – ASKME.COM" by Ms.Abirami, Manager & Channel Partner, Coimbatore between 3.50 pm & 4.50 pm. for II year MBA students and ED Cell members.
19.	11.09.2014	Attended a expert talk programme titled "Operation Management" conducted by Sona School of Management for I year MBA students and ED Cell members between 5.30 pm & 7.00 pm.
20.	25.09.2014	Conducted seminar on "Information Security" by Mr.A.K.Asokan, Director, Netlabs Ltd., Chennai.
21.	27.09.2014 & 05.10.2014	Conducted MSME - DI Chennai Export Procedures and Documentation/ Certified Training Programme
22.	10.10.2014	Students attended One Day Workshop programme
		"How to write the Business Plan(TATA First Dot NEN Workshop" at PSG College of Tech., Coimbatore.
23.	10.10.2014 &	Chief Coordinator and students participated in the

	11.10.2014	"Global Entropropourship Submit - 2014" at Bangaloro
	11.10.2014	"Global Entrepreneurship Submit - 2014" at Bangalore.
24.	16.10.2014 &	Chief Coordinator attended 2- day event on "Understanding Venture Investments and Incubators and Corporate CSR" organized by Asian Pacific Incubation Network(APIN) and Indian Steps and Business Incubators Association(ISBA)
	17.10.2014	at Bangalore.
25.	30.10.2014	Conducted a guest lecture about the topic "Tips for becoming a Successful Entrepreneur & Experience Sharing" delivered by Mr.E.Samilson, AP/CSE Department for the FD Cell Members.
26.	18.11.2014	Chief delivered a guest lecture about the topic "Entrepreneurship Development Programme for Women" to Sitra Powerloom Service Centre trainees at Paviesh Park, Lakshmi Nagar, Bhavani.
27.	21.11.2014	Conducted industrial visit to JSW Steel P.Ltd., Mechari, organized by CII Salem for students environmental safety Mission for the benefit of I year MBA students and ED Cell members along with faculty on 21.11.2014.
28.	09.12.2014	Conducted awareness programme on "Bar Coding" organized by Government of India, MSME DI – Chennai – 32 for outside participants.
29.	19.12.2014	Chief Coordinator presented a guest lecture on
		"Inspirational Teaching Methodologies" to the faculty of the department of Information Technology between 9.30 am – 1.00 pm.
30.	02.01.2015	Conducted monthly training / meeting for 2 nd year Interaction session between 5.00 pm & 6.00 pm.
31.	06.01.2015	Conducted "Incubation Centre Meeting" at ED Cell Training Hall by faculty for establishing incubation centre in our institution.
32.	22.01.2015	Chief Coordinator delivered a expert talk on "Creativity and Innovations" for the student community at Cheran College of Engineering, K.Paramathi, Karur – 639 111.
33.	23.01.2015	Chief Coordinator delivered a expert talk on
		"Youth Employment Generation Programme"
		at Periyar University, Salem.
34.	14.02.2015	Awareness programme on Opportunities & Supports to Micro, Small & Medium Enterprises by NSIC Technical Services, Govt.of India, Chennai organized by The Salem District Small Scale and Tiny Industries Association supported

		by Sona College of Technology & Salem Productivity Council.
35.	11.3.2015 To	Chief Coordinator participated Directors Round Table along with the Ministry of Skill Development and Entrepreneurship followed by Entrepreneurship
	12.3.2015	Education Conclave held at India Habitat Centre, Delhi.
36.	21.03.2015	Chief Coordinator participated in "Brand Launch and Curtain Raiser Programme" at KCT Tech. Park, Coimbatore.

Table 9.3 Events conducted / attended during 2015 - 2016

S.No.	Date	Details of the Program
3.110.	Date	Details of the Program
1.	1.4.2015	Students conducted EDC monthly meeting for our ED Cell members at ED Cell Training Hall.
2.	17.4.2015	Students attended an interactive session with NEN Consultant between 10.00 am & 1.00 pm.
3.	24.4.2015	Chief Coordinator attended Minutes of 4th Quarter Meeting District Level Advisory Committee of INDSETI at Conference Hall, Collect orate Office, Salem.
4.	29.5.2015	Chief Coordinator attended Pre- ZTWS
	То	(Pre Zone Trainers Workshop) Conducted by JCI, Salem.
	31.5.2015	
5.	9.6.2015	Chief Coordinator visited INTEC 2015 EXPO along with faculty at Coimbatore.
6.	12.6.2015	Chief Coordinator gave a talk on Skill Enhancement during the Certificate Award Function - Skill Development Programme for Youth sponsored by SAIL Refractory Co Ltd., Salem organized through Centre for Social Responsibility Initiatives (CSIR) Salem.
7.	25.6.2015 To 28.6.2015	Chief Coordinator got certified as Zone Trainer organized by Junior Chamber International.
8.	7.7.2015	Conducted a expert talk programme about the topic "Effective Use of Money as Resource" delivered by Mr.M Prince Faraqualeeth Raja for the benefit of II,III and IV year students

9.	17.7.2015	Chief Coordinator delivered an Expert Talk about "Entrepreneur's Motivation" for the benefit of II Yr. MCA "B" students.
10.	29.7.2015	Conducted "Students On boarding Webinar" for III and IV year students
11.	1.8.2015	Chief Coordinator delivered an expert talk in One day Workshop "Y Entrepreneurship" organized by Vellammal College of Engineering and Technology, Madurai.
12.	4.8.2015	Students conducted EDC monthly meeting for marketing the ED Cell members II &III year students.
13.	8.8.2015	Chief Coordinator attended "Global Investors Meet 2015 – District Road Shows with Special Focus on MSME" at Hotel Ashwa Park, Steel Plant Road, Salem.
14.	12.8.2015	Students attended CII – Seminar programme at P.G.Auditorium
15.	16.8.2015	Chief Coordinator participated in International Training Course JCI IMPACT Hosted by JCI Salem Metro on 16.8.2015.
16.	17.8.2015	Chief Coordinator delivered an expert talk about the topic on "Problem Solving Management" for the benefit of ED Cell members from 5.15 pm & 6.30 pm.
17.	10.9.2015	Conducted MSME projects and funding awareness programme addressed by Mr. Shiva Rama Prasad, Asst. Director of MSME.
18.	11.9.2015	Conducted a guest lecture programme delivered by Mr. Velpari, an entrepreneur for the benefit of II, III & IV year students between 11.00 am & 1.00 pm.
19.	11.9.2015	Chief Coordinator delivered an expert talk about the topic on "Cyber Crime" for the benefit of police personnel, Salem organized by Inspector of Police, Office of In-service Training Centre, Salem.
20.	15.9.2015	Conducted attended NEN – Webinar about
		"Road Mapping" for the benefit of ED Cell members.
21.	23.9.2015	Conducted "Creativity Workshop for Idea Generation" for the benefit of I,II and III year students between 2.00 pm and 5.00 pm at Main Building Seminar Hall.
22.	31.10.2015	Chief Coordinator attended EDI sponsored program for the Master Class on Incubation at ITC Grand Chola, Chennai organized by TiE Chennai along with (Dr Chandrasekar EEE, Dr

		Balasubramanian (PHY) & Mr Venkatesan SCEC)
23.	6.11.2015 & 7.11.2015	Sona College of Technology jointly organized with MSME Development Institute, Chennai conducted National Vendor Development Programme at Sports Complex/SCT.
24.	27.11.2015	Chief Coordinator attended "NEN Reconnect Meeting" with Regional Manager at PSG Tech. Coimbatore
25.	03.12.2015	Chief Coordinator attended" Capacity Building Programme for Business Incubation" at PSG. Tech. Coimbatore, sponsored by EDI, Govt. of India.
	04.12.2015	
26.	10.12.2015	Conducted "Webinar Programme" for the benefit of II & III year students.
27.	12.12.2015	Chief Coordinator attended "Effective Sales & Marketing Techniques" organized by Codissia and Wadhwani Foundation at Codissia Trade Fair Complex, Coimbatore.
28.	16.12.2015	Conducted "Webinar Programme about the topic "Communicate well, Build Confidence, Be Successful Entrepreneur" for the benefit of II & III year students.
29.	16.12.2015 &	Conducted a two day workshop for developing Entrepreneurs about the topic "Boot Camp" jointly with Avant Garde for the benefit of UG / PG students held at MCA Auditorium.
	17.12.2015	
30.	5.1.2016	Students attended "Student Entrepreneur & Workshop" conducted by NEN at Kumaraguru College of Technology, Coimbatore
31.	6.1.2016	Students attended "E-Leader Workshop" conducted by NEN at Kumaraguru College of Technology, Coimbatore
32.	7.1.2016 &	Chief Coordinator attended" Capacity Building Programme for Business Incubation" at VIT – TBI, Vellore Institute of Technology, Vellore.
	8.1.2016	
33	11.01.2016	Periyar University & Puthiya Thalaimurai TV & Foundation jointly organized a one day programme. CC delivered a presentation on the "Incubation Facilities @ Sona"
34	12.01.2016	Conducted interactive session with first year students in our EDC Training Hall.
35	18.01.2016	Industrial Visit – Aavin Milk Dairy
36	18.01.2016	Conducted E-Talk, Experience of sharing by an entrepreneur

		Delivered by Mr.K.Saravanakumar, Proprietor of Adal of Varaigalai, Print Magic and Ilakku Advertising Agency.
37.	19.1.2016	Conducted "Webinar Programme about the topic "Building & Managing Your Team in an Early Stage Start-up" for the benefit of EDC Members.

Table 9.4 Events conducted / attended during 2016 - 2017

S.No.	Date	Details of the Program
1.	15.6.2016 To 17.6.2016	Attended 3 Day Capacity Building Workshop (ISBA GIZ Project) at Pune along with the faculty Mr.G.Suresh, Asst.Prof. Department of EEE.
2.	21.7.2016 & 22.7.2016	The Society for Educational and Entrepreneurship Development honoured to our Chief Coordinator "Best Entrepreneurship Cell Coordinator Award 2016" for recognizing his contribution for effective Institute Industry Linkages. The award is presented at the 4 th National Submit in Sustainable Institute Industry Partnership (SIIP) held at India International Centre, New Delhi between 21 st & 22 nd July 2016.
3.	06.8.2016	Attended Start-Up Meet in Bangalore under the auspices of BCIC
4.	19.8.2016	Attended 3 rd Meeting of the District Level RSETI Advisory Committee for the year 2016 – 17 of the INDSETI Salem held at Meeting Hall, Collectorate, Salem.
5.	07.09.2016	Invited as a Chief Guest for the inauguration of Entrepreneurship Awareness Camp conducted by Arasu Engineering College, Kumbakonam sponsored by National Science and Technology Entrepreneurship Development Board (NSTEDB)Department of Science & Technology, Govt. of India, New Delhi in collaboration with Entrepreneurship Development Institute of India, Ahmadabad.
6.	20.10.2016	Attended EDI – TN Top Management Program@Kumaraguru

		College of Technology. Coimbatore.
7.	30.10.2016	Delivered special address on "Entrepreneurship and Research in Academy" in the event of Salem – The Destination for future conference at Grand Estancia, Salem.
8.	10.11.2016	Attended Faculty Development Programme organized by the
	То	PMO - IEDP (Programme Monitoring Office - Innovation and
	12.11.2016	Entrepreneurship Development Program at Kumaraguru College of Technology, Coimbatore.
9.	22.11.2016	Attended the workshop for Incubation Managers to exchange
	&	best practices between UK and India at St.Mary's Hall, The Raintree Hotel, Alwarpet, Chennai – 18.
	23.11.2016	
10.	17.12.2016	Regular Meeting of IE(I) Salem Chapter about the topic "Energy Conservation"
11.	30.12.2016	ISTE Session Chairman for the Vocational Education & Panelist – Employment & Skills Today at Thiagarajar Polytechnic College, Salem.
12.	4.1.2017 & 5.1.2017	Students attended NEN – E Leader Workshop at KCT Business School, Coimbatore. 1. Mr.K.Likhith Reddy – IV ECE "A" 2. Mr.M.Vinoth – IV Mech "D" 3. Ms.J.Bhagyashree – IV ECE "A" 4. Ms.G.Ramya – III FT "B"
13.	6.1.2017	Presentation regarding incubator and its support in the "BEL's Seminar on Role of Start – ups in Defence" at BEL's Incubation Cell, Bangalore.
14.	27.01.2017	Attended 5 th Meeting of the District Level RSETI (Rural Self Employment Training Institute) Advisory Committee for the year 2016 – 2017 at Meeting Hall, Collectorate, Salem.
15.	31.01.2017	Visited "IMTEX 2017 Expo" organized by Indian Machine Tool Manufacturer's Association at Bangalore.

16.	4.3.2017	Participated in Skill Development on" Research Methodology and Quality Publications" conducted by The Institution of Engineers (I) Salem Local Centre in association with IE(i) Student Chapter, Sona College of Technology, Salem.
16.	11.3.2017	Attended "5 th Edition: CII – Young Indians (Yi) National Entrepreneurship Summit 2017" at Hotel Vivanta by Taj MG Road Bengaluru.
17.	26.03.2017	Attended for panel discussion at R – SAP (EDI Review of Start – up Activation Program) at Kumaraguru College of Technology, Coimbatore.
18.	31.3.2017	Attended Special Meeting of the District Level RSETI Advisory Committee of INDSETI Salem for the year 2016 – 17 at Meeting Hall, Collect orate Salem.

Table 9.5 Events conducted / attended during 2016 - 2017

S.N	Date	Details of the Program
0.		
1.	11.7.2016	Chief Coordinator delivered an expert talk about the topic "Social
		Entrepreneurship" for the benefit of II Year MCA students
		(Lateral Entry) between 11.00 am & 1.00 pm.
2.	27.7.2016	Sona School of Management jointly organized with CII, Chennai to
2.	27.7.2010	conduct Webinar on How to Transform your Ideas and
		Ambition into Business Reality? for the benefit of students.
3.	28.7.2016	Conducted NEN Webinar for the benefit of ED Cell members.
4.	30.7.2016	Conducted "Monthly Meeting" for the benefit of EDC members
7.	30.7.2010	(II,III and IV year.students).
5.	11.8.2016	EDC Members Ms.Mohana Priya.A, Abinaya.M and Akshaya.N got I
	& 12.8.2016	Prize in B - Plan Contest held at Bannari Amman Institute of Technology, Sathyamangalam, Erode.
6.	29.8.2016	Conference Call with BCIC Bangalore for Innovation Cell
		implementation and skill enhancement.
7.	30.8.2016	Conducted ICE Breaking Programme for the benefit of First
		Year MBA "A" section students
8.	05.09.2016	Conducted a training session "Identification of Business
	0010012020	Opportunities" for ED Cell members
	10 10 2015	
9.	18.10.2016 &	Sona ED Cell jointly with IEEE conducted NEN – E – Leader Workshop organized by NEN, Chennai.
	19.10.2016	TYOIRSHOP OIGAINZED BY INLIN, CHEINIAI.
	13.10.2010	
10.	2.12.2016	Discussed "Sona Recognition with Scientific Industrial
		Research Organization " at MBA Conference Hall
11.	14.12.2016	Conducted "Ton Management Most Link for IEDD of EDI
11.	14.12.2010	Conducted "Top Management Meet – Hub for IEDP of EDI Chennai" for various institutions & polytechnics to support and
		implement IEDP activities.
<u></u>		r

12.	22.12.2016	Conducted "E - Cell /IEDC Faculty Development Programme
	То	(FDP) for IEDP of EDI Chennai" for the benefit of various
	24.12.2016	institutions & polytechnics to understand need for entrepreneurship and innovation in colleges to create and support mechanisms for
		Start Ups and understand role of ED & IC s in Entrepreneurship.
13.	30.1.2017 & 31.1.2017	Conducted "E-Cell Leader's Workshop" for the benefit of students from spoke colleges.
14.	09.02.2017	Conducted Review for E-Leader Workshop & Regional Start-up Activation Program for spoke Colleges.
15.	20.2.2017	Conducted "EDI – NEEDS " Training Programme
	To 23.3.2017	
16.	28.2.2017	Conducted "EDI – BOOT CAMP" with spoke colleges

Table 9.6 Events conducted during 2017–2018

S.N o.	Date	Details of the Program
1.	17.7.2017 To 18.8.2017	NEEDS – EDP 2017/1 Training Programme By EDII, Chennai.
2.	17.8.2017 To 19.8.2017	E-Cell Faculty Development Programme for spoke college faculties. (LW100)
3.	1.9.2017	WF-NEN Consulting Meeting with SCT & Polytechnic College students.
4.	15.9.2017	Student Design Project - 2017
5.	20.9.2017 & 21.9.201	Participated in 6 th National Summit on Education, Employability, Employment, Entrepreneurship (SEED-4Es) held at IIT – Madras and won the Best EDC Coordinator Award.
6.	21.09.2017 To 23.09.2017	Students participated in Tamilnadu Students Innovators-2017 organized by FORGE Incubation Center KCT, Coimbatore
7.	3.10.2017 To 4.10.2017	E- Cell Leader's Workshop – 2017 for spoke college students.

8.	04.12.2017	Organized 3 days Orientation Program in Entrepreneurship (WFNEN100) for I Year MBA students.			
	05.12.2017	(**************************************			
	&				
	11.12.2017				
9.	18.12.2017	NEEDS – EDP 2017/2 Training Programme by EDII, Chennai			
	То				
	20.01.2018				
10	26.12.2017	Conducted an E-Cell Faculty Development Programme (LW 101)			
	То				
	28.12.2017				
11	19.01.2018	Students participated in National Student Startup Challenges (Yustart			
	&	2018) at IIM Bangalore and positioned in 6 th place.			
	20.01.2018				
12	17.02.2018	Participated in 2 nd Edition of the CII Salem MSME Summit with a focus			
		on "Accelerating for Growth & Business Development " organized by CII			
		Salem District on 17.2.2018.			
13	21.3.2018	NEEDS – EDP 2017/3 Training Programme by EDII, Chennai for New			
	То	Entrepreneurs			
	21.4.2018				

9.7 Co-curricular and Extra-curricular Activities (10)

Students are engaged in co-curricular and extra-curricular activities and field trips through student chapters and forums, which provide opportunities for students to explore new fields of interest, cultivate leadership skills, and learn teamwork. In this regard, institution has formed various committees for participating and organizing the cultural and sports activities. Every department has its own association through which various department symposiums, project expo and other technical and non-technical events are being conducted. These association activities benefit in developing leadership skills and make them work in teams.

9.7.1 Sports Facilities

The Institution has a sports ground. There are well equipped gymnastics and sports kits. Students are encouraged to participate in various zonal and interzonal tournaments. Students participate in inter and intra collegiate and University tournaments. Sports day is celebrated with various sports events like Athletics, Long Jump, Volleyball, Table Tennis, Cricket, Chess, and Carom etc. both for staff and students, as part of recreation.

Sona has the following facilities:

- Cricket ground
- Indoor stadium
- Swimming pool
- Yoga & meditation centre
- Hockey ground
- Running track
- Volleyball Court
- Football ground
- Basket ball court

A well qualified physical director will manage all sport activities.

Achievements 2015-2016

Anna University Zone Tournament

S. N o	Name of the Game	Venue	Date	Position
1	Table Tennis (M)	Government College of Engg., Salem	10 th & 11 th Aug, 2015	Third
2	Badminton (M)	Kongunadu College of Engg & Tech, Thottiam	13 th & 14 th Aug, 2015	Runners Up
3	Badminton (W)	Kongunadu College of Engg & Tech, Thottiam	13 th & 14 th Aug, 2015	Runners Up
4	Chess (M)	Salem College of Engineering & Technology, Salem	21 st & 22 nd Aug, 2015	Third
5	Basket Ball (M)	Paavai Engineering College, Pachal	04 th & 05 th Sep, 2015	Runners Up
6	Tennis (M)	Paavai Engineering College, Pachal	11 th & 12 th Sep, 2015	Winners
7	Foot Ball (M)	Kongunadu College of Engg & Tech, Thottiam	14 th & 15 th Sep, 2015	Third
8	Hand Ball (M)	Kongunadu College of Engg & Tech, Thottiam	25 th & 26 th Sep, 2015	Third
9	Hockey (M)	Kongunadu College of Engg & Tech, Thottiam	01 st & 02 nd Oct, 2015	Third
1 0	Athletics (M&W)	Selvam College of Technology, Namakkal	03 rd & 04 th Oct, 2015	B. Sivakumar IV Mech 100 & 200 mts Gold Medalist

Anna University Inter Zone Tournament

S. No	Name of the Game	Venue	Date	Position
1	Power Lifting (W)	Sasurie Colege of Engg, Erode	17 th & 18 th Jan 2016	Runners up
2	Weight Lifting (W)	RVS College of Engg & Tech, Coimbatore.	21 st & 22 nd Jan 2016	Second Runners up
3	Fencing (M)	Kumaraguru College of Technology, Coimbatore	31 st Jan & 01 st Feb 2016	Third Runners up

All India Inter University Tournament

S. No	Name of the Game	Venue	Date	Position
1	S. Rooba Kiruthiga – IV/FT Fencing	Punjabi University Chandigarh	11 th to 14 th February 2016	Second
2	N. Vasuki – IV/EEE Power lifting	Acharya Nagarjuna University, Guntoor , AP	12 th to 15 th January 2016	Participation
3	R. Pratheep – III/EEE Gymnastics	Punjabi University Chandigarh	10 th to 13 th January 2016	Participation

Open State & Anna University Inter Zone Tournament

S. No.	Name of the Students	Games	Venue & Date	Tournament	Position
1	N. Vasuki IV/EEE	Power lifting	Coimbatore Jan 2016	AU – Inter Zone	First
2	P.K. Shanmugapriya	Power lifting	Chennai June 2015	Open state	Second
2	IV/IT	rower mung	Coimbatore Jan 2016	AU – Inter Zone	Second
3	S. Bhuvaneswari	Dower lifting	Chennai June 2015	Open state	Second
3	III/ECE	Power lifting	Coimbatore Jan 2016	AU – Inter Zone	Second
4	C Mahalakahmi IV//CCE	Down lifting	Chennai June 2015	Open state	Third
4	S. Mahalakshmi IV/CSE	Power lifting	Coimbatore Jan 2016	AU – Inter Zone	Second
5	K. Shanmugapriya III/IT	Power lifting	Chennai June 2015	Open state	Third
6	S. Mahalakshmi II/M. Tech/IT	Power lifting	Chennai June 2015	Open state	Third
7	B. Sathish IV/Civil	Swimming 100 m & 200 m Back stroke	NIT, Trichy Oct 2015	AU – Inter Zone	Third
8	S. Rooba Kiruthiga – IV/FT	Fencing	KCT - Coimbatore 31 st Jan & 01 st Feb 2016	AU – Inter Zone	Sabre Third Epee Third
9	A. Mani – III/ECE	Chess Boxing	Kolkata June 2015	National	Third
10	S. Arivalagan IV/Mech	Mr. Salem Physically challenged Body Building Championship	Salem July 2015	District	Second
11	D. Karthi III/EEE	Chess Boxing	Salem Aug 2015	Open State	Second
12	Mani III/ECE	Chess Boxing	Salem Aug 2015	Open State	Second
13	Sarathi Priyan II/MCA	Chess Boxing	Salem Aug 2015	Open State	First
14	Kirubakaran IV/MECH	Chess Boxing	Salem Aug 2015	Open State	Second
15	Vignesh II/FT	Chess Boxing	Salem Aug 2015	Open State	First
16	Arulmozhi III/ECE	Chess Boxing	Salem Aug 2015	Open State	First

Achievements 2016-2017

S. No.	Game	Venue	Date	Position
1	Tennis (M)	Sona College of Technology,	07 th Aug, 2016	Winners
2	Chess (M)	AVS Engg College,	08 th & 09 th Aug, 2016	Winners
3	Chess (W)	AVS Engg College,	08 th & 09 th Aug, 2016	Winners
4	Badminton (M)	Kongunadu College of Engg and Tech	11 th & 12 th Aug, 2016	Runners up
5	Badminton (W)	Kongunadu College of Engg and Tech	11 th & 12 th Aug, 2016	Runners up
6	Table Tennis (M)	CMS College of Engg	17 th Aug, 2016	Winners
7	Basket Ball (M)	Vetrivinayaha Engg College	8 th & 9 th Sep, 2016	Third
8	Athletics (W)	Kongunadu College of Engg and Tech	27 th & 28 th Sep, 2016	Third

Anna University Inter Zone Tournament

S. No	Game	Venue	Date	Position	
1	Power lifting	Sasurie Academy of	19 th to 21 st Dec,	Third	
1	(Women)	Engineering	2016	IIIIII	
2	Foncing (Mon)	Kumaraguru College of	21 st & 22 nd Dec,	Third	
2	Fencing (Men)	rending (Men)	Technology	2016	IIIII
3 Fencing (Women)		Kumaraguru College of	21 st & 22 nd Dec,	Third	
3	rending (women)	Technology	2016	IIIIIu	

S. No.	Name of the Student	Game	Venue	Date	Positio n	
1	N.Gokul Nath / III - CSE	Boxing	Paavai Engg	17 th & 18 th	Third	
_	W.Gokar Natiry III CSE	Boxing	College	Dec, 2016	i i i i i i	
		Power Lifting	Sasurie Academy	19 th to 21 st	First	
2	P.K.Shanmuga Priya /	rower Litting	of Engineering,	Dec, 2016	11130	
	I - M.TECH	Weight Lifting	Sasurie Academy	19 th to 21 st	Second	
		Weight Litting	of Engineering	Dec, 2016	Second	
3	N.Vasuki / I - M.E	Power Lifting	Sasurie Academy	19 th to 21 st	First	
3	N.Vasuki / 1 - M.L	Fower Litting	of Engineering	Dec, 2016	FIISL	
4	S.Bhuvaneswari / IV - ECE	Power Lifting	Sasurie Academy	19 th to 21 st	Second	
4	3. Diluvalles wall / IV - LCL	Power Litting	of Engineering	Dec, 2016	Second	
		Power Lifting	Sasurie Academy	19 th to 21 st	Second	
5	K.Shanmuga Priya / III - CSE	Power Litting	of Engineering	Dec, 2016	Second	
)	K.Silalilliuga Filiya / III - CSL	Woight Lifting	Sasurie Academy	19 th to 21 st	Cocond	
		Weight Lifting	of Engineering	Dec, 2016	Second	
			Kumaraguru	21 st & 22 nd		
6	T.Sanju Priya / II - CIVIL	Fencing	College of		Third	
			Technology	Dec, 2016		

All India Inter University Tournament

S. No	Name of the Student	Game	Venue	Date	Position
1	T.Sanju Priya / II - CIVIL	Fencing	Guru Nanak Dev University, Amrister	18 th to 27 th Jan, 2017	Participation
2	N.Vasuki / I - M.E	Power	Punjab University,	22 nd to 26 th	Participation
	,	Lifting	Chandigarh	Feb, 2017	
3	P.K.Shanmuga Priya / I -	Power	Punjab University,	22 nd to 26 th	Participation
3	M.TECH	Lifting	Chandigarh	Feb, 2017	i di dicipation

Open State & Open National Tournament

S. No	Name of the Student	Game	Venue & Date	Tournamen t	Position
			Dharmapuri 23 rd & 24 th July, 2016	Senior State	First
1	P.K.Shanmuga Priya / I-M.TECH	Power	Jamshedpur, Jharkhand 7 th to 11 th Sep, 2016	Senior National	Participatio n
		Lifting	Dharmapuri 18 th to 20 th Nov, 2016	Junior State	First
			Coimbatore 12 th to 15 th Jan, 2017	Junior National	Third
			Dharmapuri 23 rd & 24 th July, 2016	Senior State	First
2	N.Vasuki / I - M.E	Power Lifting	Jamshedpur, Jharkhand 7 th to 11 th Sep, 2016	Senior National	Participatio n
		Litting	Dharmapuri 18 th to 20 th Nov, 2016	Junior State	Second
			Coimbatore 12 th to 15 th Jan, 2017	Junior National	Participatio n
		Power Lifting	Dharmapuri 23 rd & 24 th July, 2016	Senior State	Second
3	K.Shanmuga Priya / III - CSE		Jamshedpur, Jharkhand 7 th to 11 th Sep, 2016	Senior National	Participatio n
			Dharmapuri 18 th to 20 th Nov, 2016	Junior State	Second
			Coimbatore 12 th to 15 th Jan, 2017	Junior National	Participatio n
			Dharmapuri 23 rd & 24 th July, 2016	Senior State	Second
4	S. Bhuvaneswari / IV - ECE	Power Lifting	Dharmapuri 18 th to 20 th Nov, 2016	Junior State	Second
			Coimbatore 12 th to 15 th Jan, 2017	Junior National	Participatio n
7	R. Pradeep / IV-EEE	Gymnastic s	Salem 27 th & 28 th Aug, 2016	Open State	First
8	P. Soundar / II-MECH	Gymnastic s	Salem 27 th & 28 th Aug, 2016	Open State	First
9	C Vianacwaran / III ET	Boxing	Kanchepuram 15 th to 17 th July 2016	Rural State	First
9	S.Vigneswaran / III-FT	Chess Boxing	Trichy 6 th & 7 th Aug, 2016	Open State	First
10	D. Viiov / I. MECU	Handhall	Hyderebad 4 th to 9 th Oct, 2016	Senior National	Participatio n
10	R. Vijay / I-MECH	Handball	Patna 18 th to 23 rd Nov, 2016	Junior National	Participatio n
11	P. Harsha Priya / I-FT	Yoga	Salem 27 th Nov, 2016	Open State	First

ANNA UNIVERSITY ZONE VIII ACHIEVEMENTS 2017-2018

S.No.	GAME	VENUE	DATE	POSITION	
1	BASKET BALL	Paavai College of Engineering,	11.08.17 to	Third	
_	DASKET BALL	Namakkal	12.08.17	7111114	
2	CRICKET	Government College of	16.08.17 to	Winners	
_	CRICKET	Engineering, Salem	20.08.17	Williers	
3	TENNIS	Sona College of Technology,	04.09.17	Winners	
	TENNIS	Salem	01.03.17	Williers	
4	HAND BALL	Paavai Engineering College,	06.09.17	Runners Up	
_		Namakkal			
5	TABLE TENNIS	Muthayammal Engineering	07.09.17	Winners	
		College, Rasipuram			
	HOCKEY	Kongu Nadu College of	11.09.17	Third	
6		Engineering and Technology,	12.09.17		
		Thottiam			
7	CHESS	VSA Group of Educational	15.09.17	Third	
		Institution, Salem			
8	CHESS (Women)	VSA Group of Educational	15.09.17	Third	
	, ,	Institution, Salem			
				Gowtham II/MECH	
	ATHLETICS	Selvam Engineering College,	19.09.17 to	L.J - Silver	
9	(Men & Women)	Namakkal	20.09.17	T.J – Bronze Gayathiri	
				Devi/II/ECE	
		Kongunadu College of Engg &		S.P- Bronze	
10	BADMINTON	Technology, Thottiam	28.09.17	Third	
	BADMINTON	Kongunadu College of Engg &			
11	(Women)	Technology, Thottiam	28.09.17	Runners Up	
	(wonen)	reciniology, motulani			

Anna University Inter Zone Tournament 2017-2018

S. No	Game Venue		Date	Position
1	TAKWONDO	Mailam Engineering College, Villupuram	21.09.17 to 22.09.17	Third
2	BOXING	Kumaraguru College of Technology, Coimbatore	12.11.17	Third
3	CRICKET	Loyola – ICAM, Chennai	13.12.17 to 17.12.17	Runners Up
5	FENCING (Women)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Runners Up
6	POWER LIFTING (Women)	Asian College of Technology, Coimbatore	19.01.08 to 20.01.18	Runners Up

S. No.	Name of the Student	Game	Venue	Date	Position
1	R. Vadivel – III/CSE	WEIGHT LIFTING (M)	Mountzion College of Engg & Technology, Pudukkottai	25.09.17 to 26.09.17	Bronze
2	G. Hariharan – III/ECE	WEIGHT LIFTING (M)	Mountzion College of Engg & Technology, Pudukkottai	25.09.17 to 26.09.17	Bronze
3	P.K. Shanmugapriya II/M.Tech	WEIGHT LIFTING (W)	Mountzion College of Engg & Technology, Pudukkottai	25.09.17 to 26.09.17	Gold
4	N. Vasuki – II/ME	WEIGHT LIFTING (W)	Mountzion College of Engg & Technology, Pudukkottai	25.09.17 to 26.09.17	Silver
5	P. Dinesh – III/CSE	BOXING (M)	Kumaraguru College of Technology, Coimbatore	12.11.17	Bronze
6	C. Dinesh – IV/CSE	BOXING (M)	Kumaraguru College of Technology, Coimbatore	12.11.17	Bronze
7	K. Aswin – III/MECH	BOXING (M)	Kumaraguru College of Technology, Coimbatore	12.11.17	Bronze

8	A. Hari Vignesh III/CIVIL	BOXING (M)	Kumaraguru College of Technology, Coimbatore	12.11.17	Bronze
9	H. Manoj Kumar IV-Mech	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Bronze
10	G. Srivathsan/II-MCA	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Bronze
11	S. Roheith/III-Mech	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Bronze
12	Orsu Sandeep/I-Mech	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Bronze
13	S. Sakthivel/III-Mech	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
14	D. Harsha Vardhan Reddy/I-ECE	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
15	S. Jagathesh/II-Mech	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
16	U. Pradeep/I-Civil	FENCING (M)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
17	T. Sanju Priya/III-Civil	FENCING (W)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
18	V.K. Unmai/II-EEE	FENCING (W)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
19	P. Dharani/I-FT	FENCING (W)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
20	R. Nehaa/I-FT	FENCING (W)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver
21	T. Sanju Priya/III-Civil	FENCING (W)	Kumaraguru College of Technology, Coimbatore	30.12.17 to 31.12.17	Silver

S. Akshaya/I-FT FENCING (W) R. Bhargavi/I-FT FENCING (W) R. Bhargavi/I-FT FENCING (W) R. Bhargavi/I-FT FENCING (W) P.S. Sarika/I-FT FENCING (W) R. Vadivel – III/CSE FENCING (M) P.K. Shanmugapriya II/M.Tech R. Vasuki – II/ME R. Vasuki – III/ME R. Shanmuga Priya IV/IT R. Sarika/I-FT FENCING (W) R. Shanmuga Priya IV/IT R. Sarika/I-FT FENCING (W) R. Shanmuga Priya IV/IT R. Sarika/I-FT FENCING (W) R. Saian College of Technology, Combatore R. Gayathiri Devi III/IG (W) R. Gayathiri Devi III/IG (W) R. Gayathiri Devi III/IG (W) R. Saian College of Technology, Combatore R. Gayathiri Devi III/IG (W) R. Saian College of Technology, Combatore R. Gayathiri Devi III/IIIIG (W) R. Saian College of Technology, Combatore R. Gayathiri Devi III/IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Т			, ,	
23 R. Bhargavi/I-FT (W) Coimbatore 31.12.17 to 31.12.17 to 31.12.17 24 P.S. Sarika/I-FT FENCING (W) Coimbatore 31.12.17 25 R. Vadivel – III/CSE POWER LIFTING (M) Coimbatore 20.01.18 26 L. Gokul Raj – III/ECE POWER LIFTING (M) Coimbatore 20.01.18 27 P.K. Shanmugapriya II/M.Tech POWER LIFTING (W) Coimbatore 20.01.18 28 N. Vasuki – II/ME POWER LIFTING (W) Coimbatore 20.01.18 29 K. Shanmuga Priya IV/IT POWER LIFTING (W) Coimbatore 20.01.18 R. Gayathiri Devi III/EEE Asian College of Technology, Coimbatore 20.01.18 POWER LIFTING Technology, Coimbatore 20.01.18 Asian College of Technology, Coimbatore 20.01.18 To Gold 20.01.18 19.01.18 To Gold 20.01.18 To Silver 19.01.18 To Gold 20.01.18 To Silver 20.01.18 To Silver 20.01.18 To Silver 20.01.18 To Silver 20.01.18 Asian College of Technology, Coimbatore 20.01.18 To Silver 20.01.18 To Silver 20.01.18 To Silver 20.01.18 To Silver 20.01.18 Asian College of Technology, Coimbatore 20.01.18 To Silver 20.01.18 Asian College of Technology, Coimbatore 20.01.18 To Silver 20.01.18 Asian College of Technology, Coimbatore 20.01.18 To Silver 20.01.18 Asian College of Technology, Coimbatore 20.01.18 To Silver 20.01.18 Asian College of Technology, Coimbatore 20.01.18 To Silver 20.01.18	22	S. Akshaya/I-FT		of Technology,	to	Silver
P.S. Sarika/I-FT PENCING (W) of Technology, Coimbatore 7	23	R. Bhargavi/I-FT		of Technology,	to	Silver
R. Vadivel – III/CSE R. Saian College of Technology, Coimbatore POWER LIFTING (W) R. Shanmugapriya II/M.Tech POWER LIFTING (W) R. Shanmuga Priya IV/IT R. Shanmuga Priya IV/IT R. Gayathiri Devi III/EEE POWER LIFTING R. Gayathiri Devi III/EEE Asian College of Technology, Coimbatore R. Saian College of Technology, Coimbatore R. Saian College of Technology, Coimbatore R. Gayathiri Devi III/EEE Asian College of Technology, Coimbatore R. Saian College of Technology, Coimbatore	24	P.S. Sarika/I-FT		of Technology,	to	Silver
25 R. Vadivel – III/CSE LIFTING (M) 26 L. Gokul Raj – III/ECE POWER LIFTING (M) 27 P.K. Shanmugapriya II/M.Tech 28 N. Vasuki – II/ME 29 K. Shanmuga Priya IV/IT 29 R. Gayathiri Devi III/EEE 20 L. Gokul Raj – III/ECE POWER LIFTING (M) Asian College of Technology, Coimbatore			POWER	Asian College of	19.01.18	C:I
L. Gokul Raj – III/ECE LIFTING (M) POWER LIFTING (Coimbatore) R. Saian College of Technology, Coimbatore POWER LIFTING (W) POWER LIFTING (Coimbatore) Asian College of Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore) POWER LIFTING (W) R. Saian College of Technology, Coimbatore POWER LIFTING (W) R. Gayathiri Devi III/EEE POWER LIFTING Asian College of Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore POWER LIFTING (W) POWER LIFTING Technology, Coimbatore	25	R. Vadivel – III/CSE	_		to	Silver
26 L. Gokul Raj – III/ECE LIFTING (M) 27 P.K. Shanmugapriya II/M.Tech 28 N. Vasuki – II/ME 29 IV/IT R. Gayathiri Devi III/EEE 20 LIFTING (M) POWER LIFTING (M) POWER LIFTING (W) POWER LIFTING (W) Asian College of Technology, Coimbatore POWER LIFTING (W) R. Gayathiri Devi III/EEE Asian College of Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore POWER LIFTING (W) Silver			(M)		20.01.18	
L. Gokul Raj – III/ECE LIFTING (M) P.K. Shanmugapriya II/M.Tech R. Vasuki – II/ME R. Shanmuga Priya IV/IT R. Shanmuga Priya IV/IT R. Gayathiri Devi III/EEE POWER LIFTING (M) R. Gayathiri Devi III/EEE POWER LIFTING (M) Technology, Coimbatore Asian College of Technology, Coimbatore Te			DOMED	Technology,	19.01.18	
P.K. Shanmugapriya II/M.Tech POWER LIFTING (W) POWER LIFTING (W) Asian College of Technology, Coimbatore POWER LIFTING Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore	26	L. Gokul Raj – III/ECE	LIFTING		to	Silver
P.K. Shanmugapriya II/M.Tech POWER LIFTING (W) Roimbatore Asian College of Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore POWER LIFTING COIMBATOR POWER LIFTING COIMBATOR POWER LIFTING COIM					20.01.18	
27 II/M.Tech LIFTING (W) Coimbatore 20.01.18 28 N. Vasuki – II/ME POWER LIFTING (W) Coimbatore 20.01.18 29 K. Shanmuga Priya IV/IT POWER LIFTING (W) Asian College of Technology, Coimbatore 20.01.18 29 R. Gayathiri Devi III/EEE POWER LIFTING (W) Asian College of Technology, Coimbatore 20.01.18 30 R. Gayathiri Devi III/EEE POWER LIFTING (W) Asian College of Technology, Coimbatore 20.01.18 30 Silver Silver (W) Si		D.V. Chanmuganriya	DOWED	Asian College of	19.01.18	
N. Vasuki – II/ME POWER LIFTING (W) Coimbatore POWER LIFTING (Coimbatore) R. Shanmuga Priya IV/IT R. Gayathiri Devi III/EEE Coimbatore (W) Coimbatore Asian College of Technology, Coimbatore Asian College of Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore POWER LIFTING (W) Asian College of Technology, Coimbatore 19.01.18 19.01.18 To Silver Silver Coimbatore Co	27		_	_	to	Gold
N. Vasuki – II/ME POWER LIFTING Technology, Coimbatore K. Shanmuga Priya IV/IT R. Gayathiri Devi III/EEE POWER LIFTING (W) POWER LIFTING Technology, Coimbatore Asian College of Technology, Coimbatore POWER LIFTING Technology, Coimbatore Asian College of Technology, Coimbatore 19.01.18 19.01.18 19.01.18 POWER LIFTING Technology, Coimbatore Output POWER LIFTING Technology, Coimbatore POWER LIFTING Technology, Coimbatore Output POWER LIFTING Technology, Coimbatore Output POWER LIFTING Technology, Coimbatore Output POWER LIFTING Technology, Coimbatore POWER LIFTING Technology,		II/M.Tech	(W)		20.01.18	
N. Vasuki – II/ME LIFTING (W) Technology, Coimbatore Technology, Coimbatore			DOWED	Asian Callaga of	19.01.18	
K. Shanmuga Priya IV/IT POWER LIFTING (W) R. Gayathiri Devi III/EEE Asian College of Technology, Coimbatore Asian College of Technology, Technology, Coimbatore 19.01.18 19.01.18 19.01.18 Technology, Coimbatore 19.01.18	28	N. Vasuki – II/ME			to	Gold
29 K. Shanmuga Priya IV/IT POWER LIFTING (W) Asian College of Technology, Coimbatore 20.01.18 R. Gayathiri Devi III/EEE POWER LIFTING Technology, to Silver			(W)	, <u>, , , , , , , , , , , , , , , , , , </u>	20.01.18	
29 IV/IT LIFTING (W) Technology, to 20.01.18 R. Gayathiri Devi III/EEE POWER LIFTING Technology, to 20.01.18 Asian College of Technology, to Silver		V. Chanmusa Drive	DOMED	Asian Callaga of	19.01.18	
R. Gayathiri Devi III/EEE R. Gayathiri Devi LIFTING Technology, On the last of the control of	29		_		to	Silver
R. Gayathiri Devi POWER Asian College of LIFTING Technology, to Silver		1V/11	(W)		20.01.18	
30 III/EEE LIFTING Technology, to Silver		D. Cavathini Desi	DOWER	Asian Callaga - f	19.01.18	
	30	,	_		to	Silver
		111/EEE			20.01.18	

OPEN STATE AND NATIONALS 2017-2018

S. No.	Name of the Student	Game	Venue	Date	Position
1	G. Krishnakumar	Gymnastics	Open State, SDAT – Chennai	06.01.18	Gold
	IV/IT	Cymnastics	Open State, Anna Stadium	22.09.17	Gold
2	K. Thangarasu II/CIVIL	Wrestling	Open State, Sri RagavendraPolytechn ic College, Namakkal	04.08.17 to 06.08.17	Silver
3	S. Vigneshwaran IV/FT	Boxing	Rural State, BPJ College of Arts &	12.08.17 to	Silver

			Science, Cuddalore	13.08.17	
		Chess Boxing	Open State, LFHS School, Salem	29.07.17 to 30.07.17	Silver
4	R. Vadivel – III/CSE	Power	Open State, Udumalaipet	07.05.17	Gold
		Lifting	Open State, Udumalaipet	07.05.17	Silver
5	N. Vasuki – II/ME	Power	Open State, Udumalaipet	07.05.17	Gold
		Lifting	Open State, Udumalaipet	07.05.17	Gold
6	P.K. Shanmugapriya	Power	Open State, Udumalaipet	07.05.17	Gold
	II/M.Tech	Lifting	Open State, Udumalaipet	07.05.17	Gold

9.7.2 NSS, NCC and YRC

NSS

The motto of NSS "Not Me, But You", reflects the essence of democratic living and upholds the need for self-less service. NSS helps the students to develop appreciation to others view and also show consideration to other living beings. The philosophy of the NSS is well reflected in this motto, which underlines on the belief that the welfare of an individual is ultimately dependent on the welfare of the society on the whole and therefore, the NSS volunteers shall strive for the well-being of the society.

ACTIVITIES OF NSS UNIT

NSS UNIT is organizing several useful programs for the society. The programs like Blood donation camp, free medical camp, helping towards flood affected people, Health education programs, tree plantation etc. are successfully conducted. The students and NSS volunteers of Sona are donating the blood frequently on request by the public/Hospitals through NSS coordinator. The NSS team is obtaining best NSS Volunteers and best NSS coordinator consecutively for past 10 years from Anna University, Chennai.

NCC

Sona College of Technology is committed to social and national responsibilities; bearing this in mind, we have raised the NCC Signal Coy for boys and army wing for girls from 2004-05 onwards. We believe that an individual will come to possess an adoring personality only by involving himself / herself in activities like

NCC, NSS, etc. Sona College of Technology is equipped with several infrastructure facilities like short-range firing and offers obstacle courses for NCC training program. The NCC program provides ample opportunities to the cadets by conducting firing camps, drill practices, personality development and voluntary service program. The mission and vision of our NCC wing is to create awareness about its importance and role in nation building among the student community.

YRC (Youth Red Cross)

The Red Cross is an international organization meant for humanitarian services. It is a non-religious, nonpolitical and a non-sectarian international body. YRC is a part of the Indian Red Cross Society; it was inaugurated in August, 2003 with well-defined objectives such as: Protection of Health and Life Service to the sick and the suffering by organizing. Various health camps such as eye camps, vaccination camps, health awareness, etc. AIDS Eradication

Table 9.6 Activities (NSS, NCC, YRC) in 2017-18

Name of the activity	Organising unit/agency/collabo rating agency	Year of the activity (2017-2018)	Numbers of teachers participate d in such activities	Number of students participated in such activities
Orphanage Visit by Sona YRC and RRC students visited an orphanage called "Thaimai Anbu Karangal" wHere we helped by joining hands together to nullify their needs	C.Thirumalai-EEE V.MurugeshsaiKrishna - MECH		4	43
Students attended to act as volunteers in Graduation Day 2017 function	C.Thirumalai-EEE		2	37
Sona YRC and RRC students took "PLEDGE" The motto of pledge is "START FREE, STAY FREE and AIDS FREE.	IRCTC		4	96

	0.71.			224
Conducted	C.Thirumalai-EEE		4	224
"Independence	S.Mohanapriya-FT	2017 2010		
Week Celebrations		2017-2018		
2017"				
includes				
connections, quiz,				
and competitions				
for the benefit of				
the student				
community within				
our campus.				
International	R.Aswin-CSE		1	14
Youth Day				
competitions at				
PERIYAR				
UNIVERSITY,				
Volunteers of Red				
Ribbon club are				
invited to				
participate.				
Students attended				
mime show, street				
play and poster.				
Students	V.Murugeshsai Krishna-		2	83
participated in	MECH T.Sanjupriya-			
MARATHON on	CIVIL			
behalf of				
International				
Youth Day,				
Students took				
pledge, the main				
motto of pledge is				
"YOUTH BUILDING				
PEACE"				
DENGUE	R.Logesh-MECH		4	164
AWARENESS- Sona	N.Karthickraja-MECH			
YRC and RRC				
students created				
awareness for				
dengue and				
provided				
NILAVEMBU		2017-2018		
KASHAYAM within				
our campus.	0 111 000			
Students attended	Sumithra-CIVIL		2	75
SEED BALL	Srivani-CIVIL			
AWARENESS				
program	55			
PLASTIC	P.Pugazhvanan-MECH		2	70
AWARENESS	S.Roheith-MECH			
CAMPIGN - Sona				
YRC and RRC				
students created				
awareness for				
"PLASTIC FREE				
CAMPUS" and				

	ı	,		
conducted RALLY, SKIT within our campus.				
We have conducted seminar on "PLASTIC AWARENESS CAMPIGN" paper bag contest are held and Prize distribution for "PAPER BAG" are done, and also distribution of free Paper bags are held within our campus.	P.Pugazhvanan-MECH S.Roheith-MECH		3	60
TREKKING- Sona YRC and RRC students went to YERCAUD for trekking.	R.Aswin-MECH A.Syedrishvana- CIVIL		3	67
Students attended to act as volunteers in "WORLD SPACE WEEK CELEBRATIONS" YRC and RRC students attended the RALLY explained the PANELS to public people.	R.Aswin-CSE A.Syedrishvana-CIVIL		5	110
Students of YRC and RRC done a parade on REPUBLIC DAY	S.Muthunarayanan-ECE S.Mohanapriya-FT		2	44

Table 9.6 Activities (NSS, NCC, YRC) in 2016-17

Name of the activity	Organising unit/agency/collabo rating agency	Year of the activity (2016-2017)	Numbers of teachers participate d in such activities	Number of students participated in such activities
	NS	SS		
BLOOD DONATION AWARENESS RALLY	Sona NSS & SKS Hospital	2016-2017	5	300
INTERNATIONAL	Sona NSS		7	250

YOGA DAY						
ORIENTATION	Sona NSS	_	4	130		
PROGRAM	30114 1133		'	150		
AGRI INTEX EXPO	Sona NSS & CSRI	1	5	120		
FRESHER'S DAY	Sona NSS		8	1000		
ROTARY CLUB'S	Sona NSS & Rotary		3	70		
BLOOD DONATION	club		3	70		
CAMP	Club					
ALUMINI MEET	Sona NSS	1	4	450		
INDEPENDENCE DAY	Sona NSS		22	120		
SELECTION TEST-	Sona NSS	-	3	238		
INTERVIEW (DAY-1)	30114 1733		3	250		
SELECTION TEST-	Sona NSS	_	3	238		
INTERVIEW (DAY-2)	30114 1133		3	250		
TREKKING	Sona NSS & Salem	_	4	120		
INLINING	Forest Department			120		
QUIZ	Sona NSS	-	2	55		
AD-ZAP	Sona NSS	-	2	50		
TREASURE HUNT	Sona NSS	-	3	15		
MULTIMEDIA	Sona NSS	1	3	8		
PRESENTATION	3011a N33		3	0		
POSTER	Sona NSS	1	3	5		
PRESENTATION	3011d N33		3	5		
	Sona NSS	1	3	11		
PAPER PRESENTATION	3011d N33		3	11		
	Cons NCC		2	24		
WORDSWORTH	Sona NSS	-	3	34 32		
JUST A	Sona NSS		3	32		
MINUTE(JAM)	Cons NCC	_	2	26		
CLEAN INDIA	Sona NSS	1	<u>3</u> 5	56		
CLEAN INDIA	Cara NCC	_	4			
NSS DAY	Sona NSS		4	110		
CELEBRATION	Cara NCC 9 Common	_	<u> </u>	700		
PATTIMANDRAM	Sona NSS & Suryan FM		6	700		
MECA IOR FAIR			25	5000		
MEGA JOB FAIR MEASLES RUPELLA	Sona NSS	2016-2017	25 4			
VACCINE CAMP	Sona NSS & Government of India	2010-2017	4	2000		
DIGITAL	Sona NSS &	-	3	1000		
TRANSACTION	Government of India		3	1000		
TRANSACTION	dovernment or mala					
REPUBLIC DAY	Sona NSS	-	27	100		
AMRITHA AMMA'S	Sona NSS & Amirtha	1	20	4000		
EVENT	amma's team		20	7000		
SPECIAL CAMP	Sona NSS	-	5	2500		
ANNUAL DAY	Sona NSS	1	50	400		
MARATHON	Sona NSS, Maruthi	1	9	700		
MANATION	Blood Bank & SKS		<u>ש</u>	700		
	Hospital					
FAKE FINANCIAL	Sona NSS & Salem	1	4	500		
I AKE I INANCIAL	Police Commissioner		7	300		
	i once commissioner					
NCC						
Army Attachment	11TNsig Coy NCC		_	14		
Camp	11111319 007 1400			'		
Carrip	1					

CATC	11TNsig Coy NCC		1	25
E-payment	11TNsig Coy NCC	-	1	50
Awareness rally	&			30
Awareness rany	State Bank of India			
Trekking -Yercaud	11TNsig Coy NCC	2016-2017	2	100
Hill	TITINSIG COY NCC	2010 2017		100
Swatcha Bharat	11TNois Cov NCC	<u></u>	1	30
	11TNsig Coy NCC		1	30
Abhiyan	11TN : 0 NGC			4.0
Pre IGC camp	11TNsig Coy NCC		-	13
Army Attachment	11TNsig Coy NCC		1	18
Camp				
Blood donation camp	11TNsig Coy NCC		1	20
	YRC a	nd RRC		
	T	T = = = = = = = = = = = = = = = = = = =	T	
Conducted a	Sona College of	2016 – 17	21	
Psychological	Technology			
Tr.Programme				
"Enrichment of the				
Mind" for the benefit				
of faculty members.				
Conducted a	Sona College of		18	
Psychological	Technology			
Tr.Programme "Life	, ,			
Coping Skills" for the				
benefit of faculty				
members.				
Conducted a	Sona College of		18	
Psychological	Technology		10	
	reciniology			
Training Programme				
"Why Coping is				
Essential" for the				
benefit of faculty				
members.				
Conducted a	Sona College of		14	
Psychological	Technology			
Tr.Programme "A		2016 - 17		
Problem Solving				
Approach" for the				
benefit of faculty				
members.				
Conducted a	Sona College of		22	
Psychological	Technology			
Training Programme				
"Memory" for the				
benefit of faculty				
members.				
members.				
Conducted a	Sona College of	+		44
Seminar on "Role of				44
	Technology			
Youth in the				
Community"				
for the benefit of				
II,III & IV year				
students		_		
Conducted 70th	Sona College of			31
Independence Day	Technology			

Celebration Events 2016 for the benefit of II & III Year students.			
International Youth Day 2016	Sona College of Technology		20
Industrial Visit to ICTC Centre, Govt. Hospital, Salem for the awareness on AIDS, HIV and ART (Anti Retroviral Therapy)	ICTC Centre, Govt. Hospital, Salem		69
COMET & COMBAT	Sona College of Technology		40
YRC / RRC Symposium, Youtz – 2K16	Sona College of Technology		124
68th Republic Day Celebrations	Sona College of Technology		76
Team Building Training	Sona College of Technology		41

Table 9.7 Activities (NSS, NCC, YRC) in 2015-16

Name of the activity	Organising unit/agency/collab orating agency	Year of the activity(20 15-2016)	Numbers of teachers participated in such activities	Number of students participat ed in such activities			
	NSS						
RESURVEY	Sona NSS	2015-2016	4	200			
ORPHANAGE VISIT-I	Anbu Illam, Thai Anbu illam		6	100			
ORPHANAGE VISIT-II	Thai Illam, Don Bosco and Thai Anbu Karangal		4	150			
FRESHER'S DAY	Sona NSS		17	1500			

INDEPENDENCE DAY	Sona NSS		28	120
CHILD AWARENESS SEMINAR	Sona NSS & Jayam Arakattalai		5	100
TREKKING	Salem Forest Department		4	100
ROAD SAFETY PATROL	Salem Police Commissioner		7	16
SELECTION TEST- INTERVIEW (DAY-1)	Sona NSS		3	150
SELECTION TEST- INTERVIEW (DAY-2)	Sona NSS		3	150
STAMP	Sona NSS		2	8
PEN	Sona NSS		2	8
CLEAN INDIA-I	Sona NSS & Salem Junction Southern Railway		4	26
JAM	Sona NSS		3	93
THINK OUT OF BOX (DEBATE PRELIMS)	Sona NSS		3	
DEBATE FINALS			3	36
PHOTOGRAPHY	_		3	
PICTURE PERCEPTION	-		3	49
QUIZ PRELIMS	-		3	
PAPER PRESENTATION	-		3	16
MULTIMEDIA	-		3	
QUIZ FINALS			3	12
ONE DAY CAMP	Sona NSS, Maruthi Blood Bank and Sri Chellapa Blood Bank		5	390
CARDIAC CAMP	Sona NSS & Manipal Hospital	2015-2016	7	200
BLOOD DONATION SEMINAR	Sona NSS & Siva Ramji blood bank		6	550
CUDDALORE MISSION	Sona NSS		9	500

SONA BREEZE'15	Sona NSS		20	700
CLEAN INDIA-II	Sona NSS & Southern railway salem		7	100
POLIO CAMP PHASE-I	Sona NSS & Government of India		4	3100
REPUBLIC DAY	Sona NSS		28	74
DRUG AWARENESS			7	150
POLIO CAMP PHASE-II	Sona NSS & Government of India		3	2000
SPECIAL CAMP	Sona NSS		5	1368
SONATSAV- INTERCOLLEGE CULTURALS	Sona NSS		24	250
ORPHANAGE VISIT-III	Sona NSS ,Thai Anbu illam, Thai Anbukarangal and Karunya Illam		5	163
GRADUATION DAY	Sona NSS		60	
				1200
NEST'16	Sona NSS		5	170
	NCC			
Doon Trek	11TNsig Coy NCC		-	13
Anti Tobacco rally	11TNsig Coy NCC	2015-2016	1	20
Mini marathon	11TNsig Coy NCC		1	20
Trekking –Yercaud Hill	11TNsig Coy NCC		2	100
YRC,RRC				
YRC / RRC valedictory and farewell function for final year students.	Sona College of Technology		2	82
Students attended to act as volunteers in Fresher's Day - 2015 function	Sona College of Technology			99
Eye Medical Camp	Lotus Eye Hospital and		101	

	Institute			
Independence Day Celebrations	Sona College of Technology		3	240
Diabetic Screening Camp	IRCS-Salem Branch and SKS Hospital	2015 - 16		16
Interview for the first year students for selection of YRC / RRC Volunteers.	Sona College of Technology			587
COMET & COMBAT training programme and industrial visit to Integrated and Counseling and Testing Centre (ICTC) Salem for the benefit of II & III year students for the awareness on HIV / AIDS	Sona College of Technology & Integrated and Counseling and Testing Centre (ICTC) Salem			70
Students volunteered his service during the Hostel Fest at Sona College Hostel.	Sona College of Technology Hostel			11
Blood Donor's Camp	Government Hospital Blood Bank, Salem			28
67th Republic Day Celebrations 2016.	Sona College of Technology			102
YoutZ '16 symposium	Sona College of Technology			276
Anti Alcohol Awareness Programme	Salem City Police Department			70

Name of the activity	Organising unit/agency/collabo rating agency	Year of the activity (2014-2015)	Numbers of teachers participate d in such activities	Number of students participated in such activities	
	NSS				
ORIENTATION PROGRAM	Sona NSS	2014 - 15	4	150	
FRESHER'S DAY	Sona NSS	2014 - 15	27	1500	

TTD THIRUKALYANAM	Sona NSS		50	1000
ROAD SAFETY	Sona NSS & Salem Police Dept		6	500
INDEPENDENCE DAY	Sona NSS		37	300
SELECTION TEST- WRITTEN TEST			4	150
SELECTION TEST- INTERVIEW (DAY-1)	Sona NSS		4	150
SELECTION TEST- INTERVIEW (DAY-2)			4	150
DOG SHOW	Salem ACME Kennel Club		9	30
TREE PLANTING	Sona NSS		7	300
TREKKING	Sona NSS & Salem Forest Dept		4	100
TB AWARNESS- SEMINAR	Sona NSS & Deputy Director of Medical and Rural Health Service		6	150
ORIENTATION	Sona NSS		8	200
POND CLEANING	Sona NSS		6	200
ROAD SAFETY PATROL- INAUGRATION	Sona NSS & Salem Police Dept		9	500
	EVENTS FO	R NSS DAY		
QUIZ & SPEECH			3	200
DRAWING, ISSUE WITH SOLUTION, DEBATE			3	300
PHOTOGRAPHY			2	50
PICTURE-JAM & MULTIMEDIA	Sona NSS	2014 - 15	2	300
MUTIMEDIA & PROJECT PRESENTATION			3	50
PAPER			4	50

PRESENTATION				
& QUIZ FINALS				
NSS DAY CELEBRATION			7	250
SWACHCHA BHARAT ABHIYAN-CLEAN INDIA	Sona NSS& GOI		7	300
POLIO CAMP PHASE-I	Sona NSS		4	900
POLIO CAMP PHASE- II			4	900
GRADUATION DAY	Sona NSS		70	1500
ANNUAL DAY	Sona NSS		64	1000
SPECIAL CAMP	Sona Nss		4	500
SONATSAV- INTERCOLLEGE CULTURALS	Sona Nss		90	2000
DRUG AWARNESS	Sona NSS & Salem Police Dept		6	500
NEST-15 (NATIONAL LEVEL SYMPOSIUM)	Sona Nss		8	500
	NO	CC		
Army Attachment Camp	11TNsig Coy NCC		-	10
NIC	11TNsig Coy NCC		-	10
CATC	11TNsig Coy NCC		1	18
Blood donation camp	11TNsig Coy NCC		1	30
Anti Tobacco rally	11TNsig Coy NCC	2014 - 15	1	30
NCC day	11TNsig Coy NCC		1	45
Trekking –Yercaud Hill	11TNsig Coy NCC		2	100
YRC and RRC				

	T		T	1
COMET & COMBAT Training				
Programme for II year & III B.E/B.Tech students and visited ICTE (Integrated Counseling and	ICTE (Integrated Counseling and Testing Centre) and HIV Centre HIV/AIDS handled by RRC District Officials.		2	65
Testing Centre) and HIV Centre				
Anti-Tobacco Conference in honour of "World No Tobacco Day	Vasan Dental Hospitals P.Ltd & Sona College of Technology, Salem		2	200
Fresher's day Celebrations	Sona College of Technology		2	63
Independence Week Celebrations 2014	Sona College of Technology		2	214
Inauguration of Road Safety Patrol	Sona College of Technology		4	38
RSP Training Programme	Salem Commissioner of Police			90
Medical Camp for General Medical Checkup in our institution for the benefit	Sona College of Technology			867
COMET & COMBAT	Sona College of Technology	2014 – 15		86
139th Birth Anniversary of Sardar Vallabhbhai Patel	Sona College of Technology			240
YRC Symposium YoutZ'15	Sona College of Technology			220
66th Republic Day Parade	Sona College of Technology			68
UNICEF & ICPP(Integerated	Sona College of Technology -			2,000

Child Protection			
Programme)	8 locations in the city,		
	gathering schools from		
	nearby villages		

Table 9.8 Activities (NSS, NCC, YRC) in 2014-15

9.7.3 Other Clubs

Various clubs in the institution and training cell help to improve their confidence, communication, and other related soft skills. Each club has student Chairman from the final year and Secretary from the third year. The students from the institution who are interested in a particular club can associate themselves with the club. The Chairman and Secretary of the concerned club is responsible for conducting various awareness program for the benefit of the student.

The club details are given below:

S.No	Clubs
1	Fine Arts Association
2	Tamil Illakiya Mandram
3	Aptitude & IQ Club
4	Women's Development Wing
5	The English Club
6	Science Club
7	Tremors Club
8	Dexters' Club
9	Sona Programming Club
10	Blood Donor's club
11	Sona Radio
12	Sona sports club
13	Sonaria Music club

Fine Arts Association

SONA FINE ARTS ASSOCIATION is another precious gem in the crown of Sona College of Technology. The association not only educates and entertains the spectators, but also motivates students. Its prime aim is to explore the hidden talents of the students and offer umpteen opportunities to unearth the potential in them. SONATA, a cultural programme is celebrated by Sona family every year. It is organised by the Fine Arts Association which throws open various events for the

students to participate. The entertainment programmes include events from arts and literature which kindle the spirit of the members of Sona family. The rejuvenating and relaxing function of SONATA leaves behind an endearing and enduring effort.

Tamil Illakiya Mandram

Various activities are carried out to bring out the talents in our language. Every year activities will be conducted to showcase the talents.

Aptitude & IQ Club

The club is organizing several Box Activities which helped the students to update the aptitude, logical reasoning and pictorial reasoning. Some of the events conducted are

- Freshers Box
- Box Activity
- q -MAT '13
- I GAP'13
- Mock discussions
- GD tournament

Women's Development Wing

Sona "Women Empowerment Cell " is a society run exclusively by girls for girls.

All of its programs are aimed at achieving the dictum of Embodiment,

Empowerment and Enhancement of Women.

Events conducted during 2015-2016

1. The election for the office bearers was conducted for the student nominees and following students were selected for the academic year 2015 – 2016.

CHAIRMAN – Ms.S.Deepika

IV year , B.E Information Technology

SECRETARY - Ms. V.Raghavi

III Year, B.E Computer Science and Engineering

II Year, Master of Computer Applications

ORGANIZING COMMITTEE - Ms.S.Dhattchaini HEAD

III year, Electronics and Communication Engineering

- Inauguration of WOMEN EMPOWERMENT COMMITTEE for the year 2015-2016 was organized on 17th October 2015 and a special guest lecture was delivered on "PCOS- awareness" for the girl students of Sona by Dr.A.Ezhilmathi, M.D., (OG) Consultant Obstetrician & Gynecologist and Dr.S.Niraimadhi , D.D Consultant dermatologist and Cosmetologist, SIMS Chellum Hospital.
- SONA WOMEN EMPOWERMENT COMMITTEE in coordination with THIAGARAJR POLYTECHNIC had organized a special talk on "CAREER OPPURTUNITIES IN CIVIL SERVICES" by Mrs.R JayaLakshmi ., I.P.S .Intelligence Hyderabad , Andra Pradesh on 8-12-2015
- Women Empowerment Committee in coordination with Manavalakalai organized
 "KAYAKALPAM" workshop for the girl students of Sona on 12-01-2016 and 13-01-2016.
- 4. Introductory speech on Stop the Violence Activate workshop was be delivered by Mr.RaviShekar Sinha IRSS, Additional Divisional Railway Manager (ADRM) of Salem Railway Division.
- 5. A Special Workshop on "Stop the Violence Activate " was organized by Women Empowerment Committee in coordination with The Southern railway Bharat Scouts and Guides and Prithviraj scouts group southern division for both the male and female gender students Smt.Indrani Rao , State Organizing Commissioner Guides of Sona college of technology on 11.02.2016
- 6. League off leonas a platform for the girl students to exhibit their talents was conducted from 28th January to 5th February 2016 in various fields like Arts, Aptitude, Innovation and Technical events.
 - Aptitude and Quiz prelims were conducted on 28-1-2016
 - Designing debugging event and painting event were conducted on 29-1-2016
 - Paper presentation and Art from waste competition were conducted on 01-02-2016
 - Multimedia, Mehendi and Nail art were conducted on 02-02-2016
 - Quiz finals and Rangoli event were conducted on 03-02-2016
 - Speech, debate ,vegetable carving and cookery competitions were held on 05-02-2016

- Solo and Group Dance were conducted on 06-02-2016
- 7. International Women's day celebration preparatory meeting was conducted on 03.03.2016 at 11:30 am in Mechanical Conference hall with the committee members and faculties In charges.
- 8. International Women's day celebration 2016 was celebrated on 08-03-2016 in Sona Auditorium .The guests of honour for the function was Dr.G.Rubalakshmi,Ph.D,MD,GRD Bio clinical Research,Namakkal and Ms.Shylaja chetlur,Media artist anf film maker, Chennai.
 - Dr.R.Rubalakshmi gave a motivating and inspiring speech to the students regarding the development of entrepreneurship and about the bio recyclable products that are introduced in her company. She also spoke about his research work for curing cancer.
 - Ms.Shylaja Chetlur kindled the brains of the students through her speech. She discussed about the various opportunities in film industry.

Events conducted during 2016-2017

1. The election for the office bearers was conducted for the student nominees and following students were selected for the academic year 2016 – 2017.

CHAIRPERSON : Ms.S.R.Ragavi

IV year, B.E - Computer Science and Engineering

SECRETARY : Ms. Aparna

III Year, B.Tech - Information Technology

JOINT SECRETARY : Ms. S.Annapoorani

II year, B.E -Electronics and Communication

Engineering

- 2. Women Empowerment Committee meeting was held on 06.07.2016 to discuss the safety measures of girl students and calendar events for the academic year 2016-2017.
- 3. The Women empowerment committee of Sona college of Technology in coordination with SKS hospital has organized a guest lecture on the topic "Cancer Awareness" for female staff members on 27-10-2016. The chief guest for the function is Dr.V.Dhavashree,MBBS,DGO,DLS

- (Germany), ART (Singapore) consultant obstetrician & Gynaecologist, SKS Hospital.
- 4. A series of special events were conducted for the girl students of Sona college of technology from 4.1.2017 to 11.1.2017
 - Quiz competition was conducted on 4.1.2017
 - Mehandi and nail art on 5.1.2017
 - Debugging code was conducted on 6.1.2017
 - Paper presentation and multimedia on "Women Empowerment" theme was conducted on 7.1.2017 to improve their presentation skills.
 - In order to improve the speaking skills "impromptu" and word connection game was conducted on 8.1.2017 and 9.1.2017.
- 5. Dance competition for girl students were conducted on 4.3.2017.
- 6. Women's day celebration 2017 was organized on March 8th 2017 . the chief guest for the function were 1)Dr. Savitha Rani.M.,a Head, Training and Placement Department, Ramaiah Institute of Technology, Bangalore .2)Mrs G.Rajalakshmi, COO & Director, Cenza Technologies Private Limited, Chennai.
- 7. Women Empowerment committee in coordination with the KOFUKAN SHITO RYU KARATE SCHOOL INDIA, affliated by Karate Association of India (KAI), Asian Karnataka- Do federation .World karate Do federation .recognized by: Govt of India.(Ministry of youth affairs) has organized a Silambam workshop from 3.3.2017 to 23.3.2017 from 5:00p.m 6:00p.m.
- A team of six faculty members from various departments of Sona College of Technology attended the NHRD Hosur Chapter International Women's day 2017 celebration on 30-3-2017 at Hosur.
- 9. NHRD Hosur Chapter organised a "Special Industry Visits" for the Lady Faculty members of Engineering Colleges on the eve of "International Women's day celebration 2017" on 30-3-2017. Women Empowerment committee of Sona College of Technology, arranged a team of six faculty members from various departments and visited the following companies
 - Luk India private Limited
 - Field Fresh Private Limited

Events conducted during 2017-2018

1. The election for the office bearers was conducted for the student nominees and following students were selected for the academic year 2017 – 2018.

CHAIRPERSON : Ms.A.S.NIVEDITHA

IV year, B.E - Mechanical Engineering

SECRETARY: Ms.R.KIRUBA

III Year, B.E - Electronics and Communication

Engineering

JOINT SECRETARY : Ms. A.SIVAPPRIYA

II year, B.Tech – Information Technology

2. The Women Empowerment Committee inaugural function for the academic year 2017- 2018 was conducted on 25.09.2017 .The chief guest for the function was Dr.Jayanthasri Balakrishnan, M.A, M.Phil., Ph.D (English)., M.Ed., M.A., Ph.D(Tamil) , former professor of English in PSG college of Arts and Science, Coimbatore and Public speaker).A motivation speech was delivered by the chief guest under the topic "Values that women stand for to build a strong society: Need of the hour" for second year UG girl students.

• Prof.Dr.Jayanthasri Balakrishnan through her inspirational and thought provoking speech kindled the minds of all the students and the faculty members. She spoke about the importance of our culture, family values and the self respect that a woman should possess and also about the respect that a woman should give for the society, family members and others. She spoke about the significance of parent's role in growing their children to face the society with more moral and cultural values. She also asked all the members to take a silent oath of "Say no gossip about any growing women". She concluded the speech by highlighting the importance of parents and teachers in everyone's life. The entire speech was very meaningful.

3. A series of special events were conducted for the girl students of Sona college of technology as "Ms .Geek 2K18" from 18.1.2018.The details of the events are as follows

DATE	EVENT NAME	DESCRIPTION
18.01.18	ADZAP	Marketing the given technical product in commercial and fascinating manner
18.01.18	VISION	Showcasing the artistic talent by drawing, painting and craft modeling
19.01.18	SHE HACKS	Debugging the given code using C and C++
19.01.18	FACE OFF	Debate in the given topic
20.01.18	LA-FEMME	Mehandi , Nail Art, Hair styling ,Cookery
24.01.18	JAM	Speaking in the given topic for one minute
24.01.18	Ms . FUNNY BONES	Stand up comedy on stage
01.02.l8	RJ AND VJ	Radio and video jockey
10.2.18	LILT AND VOCAL QUEST	Solo and group singing and dancing
13.3.18	Paper presentation	Presentation on women safety
13.3.18	Multimedia presentation	Audio and video presentation on women safety

- 4. Logo Design contest for Women Empowerment committee was conducted on 21-2-2018
- 5. Sona Women Empowerment committee in coordination with Jewel one conducted a Jewelry design and slogan contest for women on the eve of Women's day on 8-3-2018.
- 6. The Women Empowerment Committee of Sona College of Technology & Women in Development of Thiyagarajar Polytechnic College, in association with the Institution of Engineers India (IEI) ,Salem Local centre, salem

- celebrated the International women's day 2018 on 16.03.2018 at 10 a.m in Sona auditorium .The chief guest for the function is **Smt. Rohini Bhajibhakare, IAS, District Collector, Salem & Guest of Honour is Dr. R. Aruna Devaraj, Herbal Scientist, Director & Founder Natural Resource Management Trust, Theni.**
- 7. To commemorate the International Women's Day, CII Indian Women Network (IWN) Tamil Nadu in association with Sona College of Technology organised 'Conclave on Women@360' with the theme 'PRESS for PROGRESS' on Wednesday, 28th March 2018 from 10:00a.m to 12:30 p.m at PG Auditorium, Sona College of Technology, Salem. The conclave comprises of address by prominent leaders from different fields who would share their thoughts on What Women Empowerment means to them. There would be life experience sharing and also inspiring message on how they have pressed forth towards progress. The speakers for the Conclave are:
 - **Dr K Banumathi,** Director PSG OHCMS & PSG Vishnugranthi
 - Mr C Devarajan, Managing Director URC Construction (P) Ltd
 - Ms Fathima Bathool Maluk, CEO & Secretary Master Group of Institutions & Founder – Orchids Services
 - Dr D Ramesh Kumar, Chairman CII Salem & Managing Director –
 Salem Microbes Pvt Ltd
 - Ms Ranjana Singhal, Partner The Terra (That's Y Food, On the
 Go) & Managing Director Café Totaram Pvt. Ltd
 - Ms Sangeetha Flora, Centre Head First American India, Salem
 - Ms AVR Soumya Sanjjay, Director AVR Swarnamahal Jewelry Pvt Ltd

The English Club

The English Club is exclusively dedicated to help students get better on their communication skills and language providing them a platform to showcase their best.

Science Club

To commemorate the Nobel laureate Sir C. V. Raman Science day is celebrated every year on his birthday.

Tremors Club

This club, a student initiative, was started for making Salem, a better place to live in. The main objective of the club is to address the environmental and some of the most important socio-economic problems which are hampering the overall growth of our city by conducting activities such as tree plantations, photo exhibitions, education for all, awareness camps, etc. The events and activities that are taken up by our club go beyond creating awareness to bring in changes in the society that we live in. We aim to go beyond being a club and become a youth movement.

Dexters' Club

Dexters' club is an initiative by the students for the students. We focus on the Creativity, Technology and Presentation of the students and to inculcate the peer to peer learning. The DEXTERS' club would invent the inborn talents of the students. We would create an impulse that would relate their passion and engineering. It provides a space for awaited intellects and techies to explore their ideas. The club would initiate unique activities, events, workshops and seminars. The club was named DEXTERS to have its origin from the root word dexterity which emphasis skills and the club triggers the Engineering skills of students.

Sona Programming Club

SProC (Sona Programming Club) has been started in order to improve the programming skills of the students. The major objectives of this club are to motivate students to learn programming with enthusiasm, teach various methods of solving programming problems in different points of view, and improve the programming skills of students.

Blood Donor's club

Setting the standards, nowadays, is quite common for Sona, not only in the academics, but also in various other extra curricular activities catering to the improvement in the area of humanity, social service, awareness and the key critical elements of the society. Definitely, service oriented, with no references, no preferences, has been the ultimate objective of Sona's blood club. Life is the most precious and it is an irretrievable one. Our students have always risen to the occasion and have rendered timely help as in the following emergency cases:

- Four students rushed to Abhaya Hospitals, Bangalore to save the life of Mrs.Shanthi, who suffered from a gastro problem.
- Prof.Gopalan of Sowdeswari college, was given two units of blood for an open heart surgery at Vijaya Hospitals, Chennai.
- Charity begins at home; justifying this, two staff members and three students donated five units of blood to a second year student of our Sona family.
- Two of our students saved the lives of two new-born babies by donating blood

Sona Radio

Started with an aim to change the way the students communicate with the staff and management. Focussing mainly on the convergence of technology, provides quality entertainment to students. Converting "Academic Achievements into Professional Excellence" is the motto of our college. **SONIC** will work hand in hand to achieve our colleges' goal.

Sona sports club

Sona College of Technology offers a plethora of opportunities to the staff and students to stay fit and fine both mentally and physically. The various indoor and outdoor games facilitate rejuvenation to the mind, body and soul. Students have bagged several awards at district, state and national levels thereby escalating the status of the college.

Sonaria Music club

SONARIA', The Music Club of Sona was started in January 2001. The objective of this club is to bring to the fore the latent skills of the students in the field of music and to import world class training to the learners in various areas of music to ultimately promote Indian and Western Music culture. The music club has Trinity certificate obtained and most experienced music teachers both for the vocal and instrumental music. The club is equipped with state-of-the-art music instruments such as

- 1. Keyboard-yamaha psr 740
- 2. Rhythm pad-spd20
- 3. Givson electric and hollow guitars
- 4. Violin
- 5. flute
- 6. Jazz drums set
- 7. Thabla, etc.

CRITERION 10

GOVERANCE, INSTITUTIONAL SUPPORT & FINANCIAL RESOURCES

10.1 .Organization, Governance and Transparency

Sona College of Technology, one of the top ranking engineering colleges in India, has achieved global identity through its involvement in research in recent technology and successful completion of projects and products. Situated in Salem, Tamilnadu, the southern part of India, Sona is the best destination for engineering aspirants. The college offers Bachelor of Engineering, Master of Engineering and doctoral degree (Ph.D) in all major disciplines. Sona which is an ISO Certified Institution, is known for its rich tradition and high values bestowed upon it by its Founder Chairman, Thiru. M.S. Chockalingam. Sona College of Technology has been accorded recognition as a Scientific and Industrial Research Organisation (SIRO) by the Department of Scientific and Industrial Research, New Delhi. This will entitle Sona to receive administrative support on issues that promote and encourage scientific research activities. The "AICTE - CII Award for Best Industry - Linked Technical Institute in India 2017" and an acclaimed 'A' grade by 'NAAC' stand testimony to the commitment of the college to impart quality education. The College is equipped with world class infrastructure and highly qualified and experienced faculty members. Sona's sharp focus on quality education and training has turned it into a premier technical institution ensuring 100% placements in a wide range of companies. In short, Sona stands tall as one of the best institutions for world class professional education.

10.1.1 State the Vision and Mission of the Institute

VISION OF THE INSTITUTE

To become an institute of great repute in the fields of Science, Applied Science, Engineering, Technology and Management studies by offering a full range of programmes of global standard to foster research and transform the students into globally competent personalities.

MISSION OF THE INSTITUTE

- To offer Graduate, Post-graduate, Doctoral and other value-added programmes beneficial for the students
- To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning, and supplementary processes
- To provide Faculty and Staff with the required qualification and competence and to provide opportunity to upgrade their knowledge and skills
- To motivate the students to pursue higher education, competitive exams, and other value added programmes for their holistic development
- To provide opportunity to the students to bring out their inherent talent
- To establish Centres of excellence in the emerging areas of research
- To have regular interaction with the Industries in the area of R&D,and offer consultancy, training and testing service
- To offer Continuing education, and Non-formal vocational education programmes beneficial to the society

10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring

We at SONA believe in FAMILY KIND (Always we used to say SONA FAMILY) of work culture. Basically it aims at love and affection to each and every stake-holder of the institute. In particular, the concept of process owners, which facilitates a perfect decentralization of activities and delegation of authorities, has proven itself to be a key concept in the success achieved by the institute on different counts. The working methodology is basically learners (students) centric, which serves as the dearest and highly responsible element of the system.

It is also committed to provide quality education to the students enabling them to excel in the fields of Science, Engineering, Technology and Management to cater to the changing and challenging needs of society and industry through the following initiatives:

 Contributing to the academic standing and overall knowledge development of the students

- Maintaining state-of-the-art infrastructure and congenial learning environment
- Enhancing the competence of the faculty to a very high level and to make them adopt all modern and innovative methods in teaching-learning process
- Inculcating moral and ethical values among the students and staff Collaborating with industry, other institutions and organizations for mutual benefit.
- Promoting Research and Development programme for the growth of the economy.
- Disseminating technical knowledge in the region through continuing education programmes.
- Ensuring continual improvement of Quality Management System(QMS)

Involvement of each and everyone in the decision-making at their respective levels is ensured through decentralization and delegation of powers. There are various institutional committees consisting of principal, senior professors and faculty members and transparency associated therein also forms an important feature of the work culture. This is done through an institutional rule book and code of conduct document which is easily accessible by any one as the copies are available in the library, with the HODs and the Principal. It is also available in our website www.sonatech.ac.in.

Sona has constituted various committees headed by the principal or faculty members of various departments for various roles, responsibility. Periodic management and committees review meeting will be held in order to make some effective decision on the different aspects of administration and academics and to make sure that we move in a correct direction.

The strategic plan in brief is as follows:

Improving Under Graduate (UG) and Post Graduate (PG) Education by incorporating Modern Teaching Learning methods.

Increased initiative to be taken to get funds from the Department of Science and Technology, UGC and other funding agencies.

Focus on developmental aspects such as student intake, curriculum improvement, infrastructure enhancement, accreditation and twinning programme with foreign university.

Improving Research and Development, Industry Interaction, Internal Revenue Generation,

Collaboration with Foreign Universities, Alumni Interaction, Entrepreneurship, and Social Responsibility Initiatives.

Envisioning the establishment of a deemed university and aiming to offer worldclass education and research through reputed international collaborations.

Example of successfully implemented strategic plan

The strategy to implement: Improving Under Graduate (UG) and Post Graduate (PG) Education by incorporating Modern Teaching Learning methods. Learning Management System (LMS) for the academic and knowledge development of the students is successfully implemented in our campus.

The LMSs used are:

- 1. Black board
- 2. Lecture Capturing System

1. Black Board

SONA has adopted Blackboard (Bb) LMS in teaching learning process for improving the quality of course delivery. SONA has taken the following steps to improve the effective usage of Bb in the college.

- A core team from IT department is constituted to take the responsibility of implementing and monitoring the working of Bb. The team has ensured that the services of Bb can be accessed from outside through a public domain (https://sonalearn.org) as well as within a college through intranet (https://172.2.2.2).
- As per the instruction of SONA management, the Bb core team supports and helps the faculty members and students to access Bb services from trusted devices such as desktop, laptop, mobile etc. by creating a nonexportable client certificate. Users should have installed the client certificate in his/her devicefor accessing Bb services.
- The core team gives training to all the faculty members of the college on the following services of Black board.
 - Uploading a course contents and assessment patterns
 - Uploading assignments with rubrics and evaluating assignments

- Checking plagiarism on the assignments submitted
- Creating discussion forums for the courses
- Tracking student participation in the enrolled courses
- Making announcements
- At the beginning of each semester, the core team will interact with each department Bb coordinators for collecting the faculty workload. According to the information, faculty and student will be enrolled for the courses created in Bb. Students will be getting the access to course content, assignment and assessment posted by the faculty once they login into Bb.
- The core team conducts the Bb review meeting once in a month for monitoring the usage of Bb by the department faculty and students. In this regard, the department Bb coordinators need to submit their department usage report which has the following information
 - Total Hits in the courses
 - Total Time in the courses
 - Apart from the courses in the curriculum, the departments are using the Bb services for conducting GATE courses and continuing education programmes.

2. Lecture Capturing System (LCS)

- The Sona College of Technology has implemented the Lecture Capture System, one of the teaching learning processes. It is a Comprehensive Video-Based Learning Platform used by our students. The Lecture capture system has been installed in 60 classrooms, covering 8 courses from 8th July 2016.
- Lecture Capture system is an automated audio-video recording solution for class room lectures. It provides access to classroom video lectures and activities in online. Students are accessing the recorded video lectures and other materials by using internet URL: http://182.73.107.187/login, a.impartus.com outside the campus. The students can access the videos through Intranet also, link http://172.21.1.2/login/ inside campus. Totally 315 professors are using the Lecture Capture solutions and 2800 Students are watching the video lectures through laptops, tablets and Android platform.

Benefits for Professors

- Help to improve the overall teaching performance.
- Improve the student test performance.
- Chance to correct unfortunate mistakes during classroom lectures.
- Improve content and delivery of classroom lectures.
- Review our own lectures.
- Improve the communication and teaching skills.
- Brought a self –awareness.
- Review specific topics and sections of lectures after completion of lectures.
- Absent students can also access this lecture.
- Students to have a recap of the lessons taught in the class.

Benefits for Students

- Accessible all the lectures anytime, anywhere.
- Watch the missed lectures during absent the class.
- Review all the important concepts many times.
- Spend less time for preparation of examination.
- Good for reviewing the topic which is not clearly understood.
- Help to improve the academic performance.
- Give more confidence while preparing for exams.
- Achieve a deeper and more current understanding.
- Availability of all contents at one place.

Also, Sona has constituted Management Review and Academic audit committees for monitoring the institutional strategic plan and its effective implementation. Table 10.1 describes the list of members in Management Review Committee (MRC).

Table 10.1 Management Review Committee

	Sona-Constituted Committees					
	Management Review Committee (MRC of Sona-QMS)					
S. No.	Name	Category / Role in the Committee	Designation			
1	Dr. S.R.R. Senthil Kumar	Chairperson	Principal			

2	Dr. C. V. Koushik	Academics	Director/Academics
3	Dr. J. JebaEmilyn	Management Representative	SONA QMS - Coordinator
4	Members	All Departments, Research Centres, Administrative Functions, Hostels, Sports and Other Specific Functions	

Functions:

To review findings of the internal audits of Sona-QMS as also to formulate improvements in established quality processes.

Frequency of Meeting: Twice a year

The following Table 10.2 describes the list of members in Academic Audit Committee.

Table 10.2 Academic Audit Committee

Acade	Academic Audit Committee				
S.No	Category	Designation	Name		
1.	Chairman	Principal	Dr. S.R.R. Senthil Kumar		
2.	Member Secretary &	Audit Coordinator	Dr. R. Shivakumar		
۷.	Secretary & Convener	Addit Coordinator	DI. K. Silivakuillai		
3.		Internal Auditor – Mech	Mr.K.G.Saravanan		
4.		Internal Auditor – EEE	Dr.R.Shivakumar		
5.		Internal Auditor – Civil	Dr.S.Suresh		
6.		Internal Auditor – ECE	Dr.R. Vinodhkumar		
7.		Internal Auditor - CSE	Dr.A.C.Kaladevi		
8.	Members	Internal Auditor – EEE	Dr.J.Senthilkumar		
9.		Internal Auditor – FT	Mrs.S.Priyalatha		
10.		Internal Auditor – MBA	Mrs.S.Sathyakala		
11.		Internal Auditor – MCA	Dr.M.Geetha		
12.		Internal Auditor – Science and Humanities	Dr.V.Balasubramanyan		

Functions

- To conduct audit of the academic departments which involves the teaching & learning process.
- To conduct audit of the Office of the COE for the proper conduct of internal and semester end examinations.
- To conduct audit of the evaluation process for continuous internal assessment.
- Frequency of Meeting: At least twice a year.

ORGANISATIONAL STRUCTURE

Sona has well defined organization structure which is shown in Figure 10.1 and accordingly, the administrative decisions are carried out. It shows the hierarchy of academics and administration is to be included.

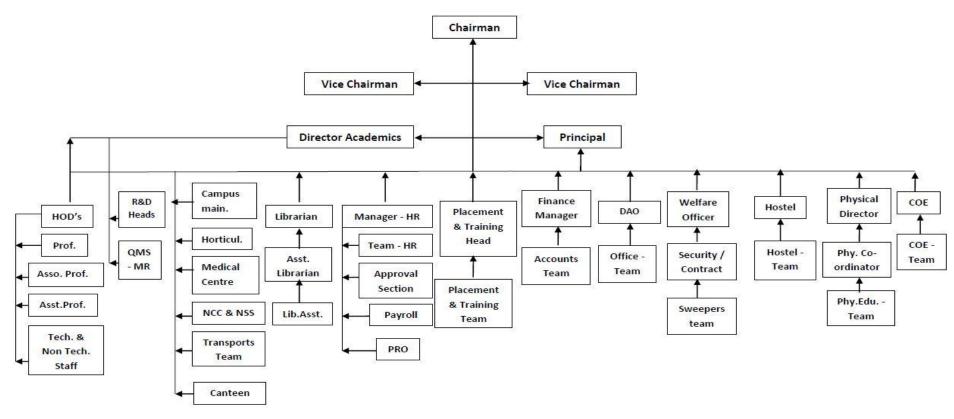


Figure 10.1 Organizational Structure

10.1.3 Governing body, administrative Setup, functions of various bodies, service rules, procedures, recruitment and promotional policies

10.1.3.1 Governing body, administrative setup, functions of various bodies

Sona has various committees under governing body, administrative setup. Table 10.3 describes the list of committees under statutory bodies, non-statutory and externally constituted committee and the functions of various bodies are also mentioned.

Table 10.3 List of committees

I - Statutory Bodies and Committees				
S.	Statutory Body/Committee	Mandated	Meetings per	List of
No.	Statutory Body/Committee	by Whom	Year	Members
1	Governing Body (GB)	UGC	One	Enclosed
2	Academic Council (AC)	UGC	One	Enclosed
3	Discipline-wise Boards of	UGC	As many as	Enclosed
	Studies		required	
4	Finance Committee	UGC	Two	Enclosed
5	Planning and Monitoring	AU	Two	Enclosed
	Board			
6	Anti-Ragging Committee	AU*	Two	Enclosed
	(and Anti-Ragging Squad)			
7	Women Empowerment Cell	UGC		
		(and	Two	Enclosed
		AICTE)		
8	Complaints and Redressal	AU*	Two	Enclosed
	Committee	7.0		
9	Discipline and Welfare	AU	Two	Enclosed
	Committee	7.0		211010000
II - Non-Statutory Committee				
10	Management Review	Sona -	Two	Enclosed
	Committee (Sona-QMS)	Constituted		
III - Externally-Constituted Committee				

		Constituted by Anna University, using AICTE		
			guidelines, with five ex	xternal members only
			for redressing	grievances from
11	Grievance		students/staff/parents/	etc.
11	Redressal	AICTE	One Sona faculty app	ointed Coordinator to
	Committee		report grievance cas	es to AU-appointed
		Ombudsman		
			Coordinator for Son	a: Dr. M. Renuga,
			HOD/H&L	

1 - Governing Body

The following Table 10.4 shows the list of members in governing body committee.

Table 10.4 Governing Body

	1 - Governing Body				
S. No.	Name	Category	Designation		
1	Mr. C. Valliappa	Management	Chairman, Sona College of Technology, Salem		
2	Padma Bhushan Dr. R. Kumar	Educationalist	Professor, IISC, Bengaluru		
3	Dr. V. Veerappan	Industrialist	Co-Founder &President,Tessolve Semiconductor Private Ltd, Bengaluru		
4	Mr. T. R. Parasuraman	Industrialist	Deputy Managing Director, Toyota Industries Engine India, Bengaluru		
5	Dr. S. Xavier Alphonse SJ	Educationalist and Special Nominee of the Chairman	Former Principal of Loyola College, Chennai		
6	Dr.(Ms).VimalRarh	UGC Nominee	Assistant Professor, Department of Chemistry, SGTB Khalsa College, Delhi		
7	Dr. D.Shobha	State Government Nominee	Associate Professor, Civil Engineering, Government College of Engineering, Salem		
8	Dr. M. Madhusoothanan	Anna University Nominee	Professor & Head, Dept. of Textile Technology, Anna University, Chennai		

9	Mr. ChockoValliappa	Management	Vice Chairman, Sona College of Technology and Founder & CEO, Vee Technologies,
			Bengaluru
10	Mr. ThyaguValliappa	Management	Vice Chairman, Sona College of Technology and Founder & MD, SonaValliappa Group, Bengaluru
11	Dr. C. V. Koushik	Academics	Director – Academics, Sona
			College of Technology, Salem Professor & Head
12	Dr. R. Malathy	Teacher of the College	Department of Civil Engineering Sona College of Technology, Salem
13	Dr. J. Akilandeswari	Teacher of the College	Professor & Head Department of Information Technology Sona College of Technology, Salem
14	Dr. S.R.R. Senthil Kumar	Ex-officio (Member Secretary)	Principal Sona College of Technology, Salem

Special Invitees

- 1. Dr. V. Jayaprakash Director Industry Connect, Sona College of Technology, Salem
- 2. Mr. G. Goudhaman Chartered Accountants, Salem.
- 3. Dr. V. Karthikeyan, Principal, Thiagarajar Polytechnic College, Salem

Terms of Reference(As stated in from UGC website)

Functions: Subject to the existing provision in the bye-laws of respective college and rules laid down by the state government, the Governing Body* of the above colleges shall have powers to:

- Fix the fees and other charges payable by the students of the college on the recommendations of the Finance Committee.
- Institute scholarships, fellowships, studentships, medals, prizes and certificates on the recommendations of the Academic Council.
- Approve institution of new programmes of study leading to degrees and/or diplomas.

Perform such other functions and institute committees, as may be necessary and deemed fit for the proper development, and fulfil the objectives for which the college has been declared as autonomous.

Term of Office:

Two years, except for the UGC Nominee whose term will be a full six years

Frequency of Meeting

At least twice a year

2 - Academic Council

The following Table 10.5 shows the list of members in Academic Council committee.

Table 10.5 Academic Council

S.	No.	Category	Name	Designation
1		Chairman	Principal	Dr. S.R.R. Senthil Kumar
2		Academics	Director	Dr. C.V. Koushik
3			1. Director - MBA	Dr. Swarup K Mohanty
4			2. Director – MCA	Dr. G.M.Kadhar Nawaz
5		Deans and	3. HOD – FT	Dr.G.Gunasekaran
6		Heads of the	4. HOD – EEE	Dr.S.Padma
7		Departments	5. HOD - CSE	Dr. B. Sathiyabhama
8			6. HOD – MECH	Dr.D.Senthilkumar
9			7. HOD – IT	Dr. J. Akilandeswari
10			8. HOD – ECE	Dr. R.S.Sabeenian
11			9. HOD – Civil	Dr.R.Malathy
12			10. HOD - Sciences	Dr.C.Shanthi
13			11. HOD – First Year &	Dr. M. Renuga
			Humanities	
14			HOD – Mathematics	Ms.S.Jayabharathi

1 [Four	Controller of	1 Du C Bodiousisoni
15	Teachers of	Examinations	1. Dr.S. Radjarejesri
16	the	Professor – EEE	2. Dr. S.Chandrasekar
17	college	Associate Professor – FT	3. Dr.M.B.Sampath
18		Professor – MCA	Dr.T.Padma
19		Professor – IT	Dr.V.Mohan Raj
	Five Experts	Principal,	
20	.	B.N.M Institute of Technology Bangalore.	Dr. G.N. Krishnamurthy
	branches of	Head, Academy	
21		Interface Program, TCS, Chennai.	Dr.A.K.Pattabiraman
22		Indian Machine Tools Manufacturers Association,	Mr.Rajashekara
22		Bengaluru.	M V Z d d-
23	Three nominees of	Vice President, Bosch	Mr.v.Jagadeesn
		Group, Bengaluru. Professor and Head	
	University,	Department of Mechanical	
24		Engineering, Refrigeration and Air conditioning division, Anna University, Chennai-25.	
25		Professor and Head Department of Civi Engineering Thantha Periyar Government Institute of Technology, Vellore-632 002.	Dr.V.Kumar

		Principal Incharge,	
		Professor and Head	
		Department of	
26		Mechanical	Dr.A.Elango
		Engineering Alagappa	
		Chettiar College of	
		Engineering and	
		Technology,	
		Karaikudi – 630 003.	
27	Placement	Advisor, Placement	Prof.B.Saravanan
28	Training	Training Cell Head	Dr. S. Anita
	Member		
	Secretary/		
29	Academic	Professor – EEE	Dr.R.Shivakumar
	Council		
	(Nominated		
	by the		
	Principal)		
	Immediate		
	past- Member		
30	Secretary/	Professor – CSE	Dr.A.C.Kaladevi
	Academic		
	Council		
31	QMS	Associate Professor –	Dr.J.Jeba Emilyn
	Coordinator	IT	

Functions: In the Academic Council body, the teachers like the Principal, Directors, Deans, Heads of the departments, subject expert teacher, etc, act as members to take decision about the academic plan, implementation of academic strategies, quality improvement decision, etc, for the development of the college and to review all academic matters of Sona College and provide guidance and advice to the college in maintaining a high academic standard.

Frequency of Meetings: At least once a year

3 - Board of Studies

Discipline-wise Board of Studies (List of BOS members)

Board of Studies have been constituted for the following branches of study.

- 1. Mechanical Engineering
- 2. Electrical and Electronics Engineering
- 3. Computer Science and Engineering
- 4. Electronics and Communication Engineering
- 5. Information Technology
- 6. Civil Engineering
- 7. Fashion Technology
- 8. First year UG Engineering / Technology Programmes
- 9. Master of Business Administration
- 10. Master of Computer Applications.

Functions: To review the curriculum and syllabi of the programme/discipline concerned and provide relevant guidance and advice such that the programme/s are always in keeping with current industry requirements

Frequency of Meetings: As many times as necessary

The following Table 10.6 shows the list of members in Board of Studies in Department of Electronics and Communication Engineering.

Table 10.6 BoS members of Electronics and Communication Engineering

S. No.	Category		Designation	Name
	Chairman		Professor & Head	Dr. R. S. Sabeenian
			Professor	Dr. R. Vinod Kumar
			Assoc. Professor	Mr. J. P. Senthil
			ASSOC. FIOIESSOI	Kumar
			Assoc. Professor	Ms. S. Deepa
	Faculty of	each	Assoc. Professor	Dr. K. R. Kavitha
	specialization	Cacii	Assoc. Professor	Dr. N. Sasirekha
	Specialization		Assoc. Professor	Mr. J. Harirajkumar
			Assistant Professor (Sr.G)	Ms. M. Jamuna Rani
			Assistant Professor (Sr.G)	Ms. T. Shanthi
		Assistant Professor (Sr.G)	Dr. K. Anguraj	
			Asst. Professor	Dr. S. Jayapoorani

		Asst. Professor	Dr. G. Ravi
		Asst. Professor	Ms. P. Priya
		Asst. Professor	Dr. S. Vijayalakshmi
		Asst. Professor	Ms. K. Manju
		Asst. Professor	Ms. M. Senthil Vadivu
		Assoc. Professor,	
		Department of ECE,	
	Two Experts in the discipline from outside the	National Institute of Technology, Tiruchirappalli - 620015.	Dr. M. Bhaskar
	college to be nominated by the academic council	Associate Professor Department of Electronics, Madras Institute of Technology, Chennai - 600044	Dr. P. Prakash
	One Expert to be nominated by the vice-chancellor	Associate Professor Department of ECE, CEG, Campus, Anna University, Chennai - 600025	Dr. K. Malathi
		Engineer-H, Retired Project Director, IRNSS, Bengaluru	Mr. K. N. Suryanarayana Rao
	One representative from	Project Manager L&T, Bengaluru	Mr. V. Vinoth
	industry / corporate sector / allied area relating to placement	Project Manager Jasmine Infotech, Chennai	Mr. N. Prabhakaran
		Lead System Engineer Wipro GE Health Care, Bengaluru	Mr. Arunesh Karthik
		Director Sinetec Technologies, Coimbatore.	Mr. A. P. Sivaraman

	CEO VI Solutions, Bengaluru	Mr. Sunil Kumar
One postgraduate meritorious alumnus to be nominated by the Principal	Assistant Professor(Sr.) School of SENSE VIT University, Vellore - 632 014.	Dr. V. Rajeshkumar
	Student Student	Ms. B. Kaviya Ms. G. Anusuya
Senior students from the	Student Student	Ms. M. Priyanka Ms. S. Soundharya
third/final year	Student	Ms.G. Devi Meenakshi
	Student Student	Mr. M. S. Nithish Mr. S. Sriram

Functions: To review the curriculum and syllabi of the programme/discipline concerned and provide relevant guidance and advice such that the programme/s are always in keeping with current industry requirements

Frequency of Meeting: As Many Times as Necessary

4 - Finance Committee

The following Table 10.7 shows the list of members in finance committee.

Table 10.7 Finance committee

	4 - Finance Committee				
S. No.	Name	Category / Roll in the Committee	Designation		
1	Sri. C. Valliappa	Management	Chairman		
2	Sri. ChockoValliappa	Management	Vice Chairman		
3	Sri. ThyaguValliappa	Management	Vice Chairman		

4	Dr. S.R.R. Senthil Kumar	Person nominated by the Governing Body	Principal
5	Dr. C. V. Koushik	Academics	Director/Academics
6	Dr. C. Easwarlal	One senior-most teacher of the college nominated by rotation by the Principal for two years	Professor – EEE
7	Sri. R. Srivatsan	Chartered Accountant	Auditor
8	Sri. K. Ganesan	Member Secretary	Finance Manager
9	Sri. V. R. Lakshminarayanan	Accounts Officer	Accounts Officer

Functions:

To be an advisory body for the Governing Body

To consider budget estimates relating to the grant received/receivable from UGC, and income from fees, etc collected for the activities to undertake the scheme of autonomy

To audit accounts for the above

Frequency of Meeting: At least twice a year

5 - Planning and Monitoring Board

The following Table 10.8 shows the list of members in Planning and Monitoring Board.

Table 10.8 Planning and Monitoring Board

5 – Plai	5 – Planning and Monitoring Board					
S. No.	Name	Category / Roll in the Committee	Designation			
1	Sri.ThyaguValliappa	Management	Vice Chairman			
2	Dr. S.R.R. Senthil Kumar	Chairperson	Principal			
3	Dr. C. V. Koushik	Academics	Director/Academics			

4	Dr. R. Malathy	Senior faculty	Professor / CIVIL	
		member of the college	,	
5	Dr.D. SenthilKumar	Senior faculty	Professor / MECH	
	Dr.D. Sentilikamai	member of the college	Professor / MECIT	
	Dr. M.	Senior faculty	Principal, Mahendra	
6		member from	Engineering College,	
	Madheswaran	another college	Namakkal	
		Industrial expert in	Associate Vice-	
7	Mr. B. E. Rajendran	the field of	President/HR, JSW Steels	
/		engineering and		
		technology	Ltd, Salem	
		Industrial export in	Manager	
		Industrial expert in	Learning and	
8	Mr. R. N. Elangovan	the field of	Development	
		engineering and	Titan Industries Ltd,	
		technology	Hosur	

Functions:To formulate plans for the development and growth of Sona College on the advice of the Governing Body of the college and provide guidance and advice in the implementation and monitoring of the plans

Frequency of Meeting: At least twice a year

6 (a) - Anti Ragging Committee

The following Table 10.9 shows the list of members in Anti ragging committee.

Table 10.9 Anti Ragging Committee

Anti-Rag	gging Committee		
S.No	Category	Designation	Name
		Principal	Dr. S.R.R.Senthil
	Chairman		Kumar
	Member	Associate Professor /	Dr. T. Maruthavanan
	Secretary	Chemistry	
	& Convener		
		Assistant Professor /	Mr. D. Vasanth
		Fashion	Kumar
		Technology	
		General Manager, Hostels	Mr. V. Meenakshi
			Sundharam
		Associate Professor / CIVIL	Dr. A. Murugesan
		Asst. Professor / Mechanical	Mr. A. Sivaprakasam
		& Associate Warden	
		HOD / EEE & Associate	Dr. S. Padma
	Members	Warden	
		Professor / CSE	Dr. S. Sakthivel
		& Associate Warden	
		HOD / First Year	Dr. M. Renuga
		Assistant Professor /	Ms. S. Uthamapriya
		Mathematics & Residential	
		Tutor	
		Asst. Professor / CSE	Ms. S.Theetchenya
		& Residential Tutor	
		Senior Physical Director	Mr. M. Rajavignesh
		Physical Directres	Ms. K. Anithaa

Deputy Editor, The Hindu	Mr. Syed Muthahar
State Executive Member,	Mr. Sahasranamam
TNSF NGO Youth activities	
II Year Student	S.R. Keshav
II Year Student	B. Monica
Parent II Year	A Babu
Law & Order, Salem West	Asst. commissioner
	of Police
Suramangalam Police	Inspector of Police-
Station	Male
All Women Police Station,	Inspector of Police-
Suramangalam	Female
Administrative Officer	Mr. V. Venugopal
I Year Student / ECE	Ms. I Evangeline
	Christina
I Year Student / Mechanical	Mr. E. Joshua
I Year Student / CSE	Mr. K. Jeeva
Parent / I Year	Dr. D. Immanuel

Terms of Reference of the committee

Function: To maintain Sona a ragging-free campus

Tenure of members: Two years Frequency of Meeting: Twice a year

Roles & Responsibilities:

To create awareness about ragging and ensure a student-friendly environment at all times

To facilitate campus monitoring to ensure ragging free campus

6 (b) - Anti Ragging squad committee

The following Table 10.10 shows the list of members in Anti ragging squad committee.

Table 10.10 Anti Ragging squad committee

6b - Anti-Ragging Squad			
S. No.	Name	Position	Designation
1	Dr. S.R.R. Senthil Kumar	Chairperson	Principal
2	Prof. M. Senthil Kumar	Member	Asst. Prof. / MECH
3	Prof. K. S. Yamuna	Member	Asst. Prof. / ECE
4	Prof. M.E. Paramasivam	Member	Asst. Prof. / EEE
5	Prof. S. AnithaElavarasi	Member	Asst. Prof. / CSE
6	Prof. K. Thangaraj	Member	Asst. Prof. / IT
7	Prof. R. S. Gandhimathi	Member	Asst. Prof. / CIVIL
8	Prof. S. Chinnadurai	Member	Asst. Prof. / FT

Function: To organize periodic and surprise monitoring of the campus to check ragging

Tenure of members: Two years

7 - Women Empowerment Committee

The following Table 10.11 shows the list of members in Women Empowerment Committee.

Table 10.11 Women Empowerment Committee

	7 – Women Empowerment Committee			
		Category /		
S. No.	Name		Designation	
		Committee		
1	Dr.M.Usha*	Ex-Officio	Senior Dean, ICE	
		Member	·	
			HOD, Humanities and Languages	
2	Dr. M. Renuga	Member	and Chief Coordinator, Women	
		Secretary	Empowerment Committee, Sona	
			College	
		_	HOD, IT and	
3	Dr. J. Akilandeswari	Member	Sona Coordinator, e-WIT (Anna	
			University)	
	Prof. A.	_	Asst. Prof, MCA and Coordinator,	
4	SuhanaNafais	Member	Women Empowerment	
			Committee, Sona College	
			Asst. Prof, ECE and Coordinator,	
5	Prof.A.P.Jayakrishna Me	Member	Women Empowerment	
			Committee, Sona College	
6	Prof. M. Arivoli	Member	Asst. Prof, Civil and Department	
			Counsellor for Women Safety	
7	Prof. N. Sasirekha	Member	Assoc. Prof, ECE and Department	
			Counsellor for Women Safety	
8	Prof. T. Ilakkia	Member	Asst. Prof, EEE and Department	
			Counsellor for Women Safety	
9	Prof. S. Priyalatha	Member	Asst. Prof, FT and Department	
	,		Counsellor for Women Safety	
10	Prof.P.Thamilarasi	Member	Assoc. Prof, MECH and	
			Department Counsellor for	

			Women Safety
11	Prof. J. Jayanthi	Member	Assoc. Prof, CSE and Department
	Troi. 5. Sayanciii	Member	Counsellor for Women Safety
12	Dr. C. Shanthi	Member	Prof, Physics and Department
12	Dr. C. Shahan	ricinibei	Counsellor for Women Safety
			Asst. Prof, Chemistry and
13	Dr. G. Shanthi	Member	Department Counsellor for
			Women Safety
			Asst. Prof, Computer Science and
14	Prof. A. Sasikala	Member	Department Counsellor for
			Women Safety
			Assoc. Prof, Information
15	Dr. J. JebaEmilyn	Member	Technology and Department
			Counsellor for Women Safety
16	Dr. P. K. Anjani	Member	Assoc. Prof, MBA and Department
	Dr. F. K. 7kiljani	ricinisci	Counsellor for Women Safety
			Assoc. Prof, MBA and Member,
17	Dr. R. Thenmozhi	Member	President 2015-16, IIW Salem
			City
18	Prof. M. Thenmozhi	Member	Asst. Prof, MCA and Department
	TTOI. PI. THEIIIIOZIII		Counsellor for Women Safety
19	Ms K Sumathi	Member	Matron, Main Women's Hostel

Functions:

To spread the awareness of gender issues among all women

To ensure that they have access to opportunities, devoid of any gender bias or discrimination on the grounds of sex, to help them rise to their full potential Meetings: At least twice a year

8 - Complaints and Redressal Committee

The following Table 10.12 shows the list of members in Complaints and Redressal committee.

Table 10.12 Complaints and Redressal Committee

	8 - Complaints and Redressal Committee			
S. No.	Name	Category / Roll in the Committee	Designation	
1	Dr. M. Renuga	Chairperson	Professor and HOD / H&L	
2	Dr. B. Sathiyabhama	Member	Professor and HOD / CSE	
3	Prof. A. SuhanaNafais	Member	Asst. Prof. / MCA	
4	Prof. M. S. Thenmozhi	Member	Asst. Prof. / MCA	
5	Ms. Sri Kutty	Member	Clinical Psychologist	
6	Dr.M.Usha*	Ex-Officio Member	Principal	

Functions:To review any cases of sexual harassment on thecampus and provide proper redress

Meetings: As and when necessary, but definitely twice a year

Tenure of members: Two years

9 - Discipline and Welfare Committee

The following Table 10.13 shows the list of members in Discipline and Welfare committee.

Table 10.13 Discipline and Welfare Committee

	9 - Discipline and Welfare Committee			
S. No.	Name	Category / Roll in the Committee	Designation	
1	Dr. S. Padma	Chairperson	HOD / EEE	
2	Dr. D. SenthilKumar	Convenor	HOD / Mech	
3	Dr. R. Malathy	Member	HOD(i/c) / Civil	
4	Dr. J. Akilandeswari	Member	HOD / IT	
5	Dr. B. Sathiyabhama	Member	HOD / CSE	
6	Prof. S. Theetchanya	Member	Asst. Prof. / CSE and Residential Tutor	
7	Mr. V. MeenakshiSundaram	Member	Sr. Executive, Hostels	

Objective:To ensure maintenance of good student discipline and provide proper amenities for student wellbeing on the campus

Periodicity of Meetings: As and when necessary, but definitely twice a year

Tenure of members:Two years

10 - Management Review Committee

The following Table 10.14 shows the list of members in Management Review Committee.

Table 10.14 Management Review Committee

10 - Ma	10 - Management Review Committee (MRC of Sona-QMS)			
S. No.	Name	Category / Role in the Committee	Designation	
1	Dr. S.R.R. Senthil Kumar	Chairperson	Principal	
2	Dr. C. V. Koushik	Academics	Director/Academics	
3	Dr. J. JebaEmilyn	Management Representative	SONA QMS - Coordinator	
	Members		All HODs/Directors	
			PG Deans	
		All Departments, Research Centres, Administrative	Director/HR	
			COE	
			Librarian	
			Sports Director/PD	
			Member Secretary -	
			Academic Council	
4			Administrative Officer/s	
		Functions, Hostels, Sports and Other	Administrative Function	
		Specific Functions	Heads	
		Specific Fullctions	(Purchase and Stores,	
			Accounts, Student Training	
			and Placement, Continuing	
			Education, Transport, MIS,	
			PR, etc)	
			Sr. Executive – Hostels	

Functions:To review findings of the internal audits of Sona-QMS and also to formulate improvements in established quality processes

Meetings: Twice a year

11 - Grievance Redressal Committee

The following Table 10.15 shows the list of members in Grievance Redressal Committee.

Table 10.15 Grievance Redressal Committee

Externa	Externally-Constituted Committee			
11 – Gr	ievance Redressal Comr	nittee		
S. No.	Name	Category	Designation	
1	Dr. S.R.R. Senthil Kumar	Ex-Officio	Principal	
2	Dr. M. Renuga	Coordinator	HOD- Humanities	
3	Dr. S. Ganesan	Member	Registrar	
	Dr. S. Gariesan	ricinisci	Anna University, Chennai	
4	Dr. M. Chandrasekar	Member	Student Affairs,	
	Dirini Gilanarabekai	110111501	Anna University, Chennai	
5	Dr. V. Jayabalan	Member	Controller of Examinations	
	Bii vi sayabalan	T Terriber	Anna University, Chennai	
			Director, Centre for	
6	Dr. A. Rajadurai	Member	Affiliation	
			Anna University, Chennai	
7	Regional Director	Member	Southern Regional Officer	
,	Regional Director	Tiember	AICTE, Chennai	

Meetings: At least twice a year

OTHER COMMITTEES:

1. Extra-Curricular Activities Committee

The following Table 10.16 shows the list of members in extra-curricular activities committee.

Table 10.16 Extra-Curricular activities committee

S.No	Category	Designation	Name
1.	Chairman	Principal	Dr. S.R.R. Senthil
2.	Member Secretary &	HOD- English	Dr. M. Renuga
3.		Sports Director	Mr.D.Soundarraj
4.		NCC officer I	Mr. Senthil Kumar
6.		NSS Coordinator 1	Mr. P. Iyyanar
7.		NSS Coordinator 2	Mr. P. Jayaprakash
8.		YRC Coordinator	Mr. G. Suresh
9.		Fine Arts Association	Mrs. V. Vijayalakshmi
10.		Sports Club Coordinator	Mr.V.Vijay
11.		Tamil Mandram Coordinator	Mr. B. Venkatesh
12.		Aptitude & IQ Club Coordinator	Mr. Vijay Peter
13.	Members	Women's Development Wing Coordinator	Ms. SuhanaNafais
14.		English Dev. Club Coordinator	Ms. G.
15.		Sonaria Club Coordinator	Sarathalakshmi Mr. S. Jayachandran
16.		Science Club Coordinator	Dr. V. Balasubramanian
17.		Corporate Relationship Officer	Mr.B.Saravanen
18.		Continuing Education Coordinator	Ms.MadhuPriya
19.		Tremors Club Coordinator	Mr. S. Lakshmanan

Frequency of Meeting: At least twice a year

2. Academic Audit Committee

The following Table 10.17 shows the list of members in academic audit committee.

Table 10.17 Academic Audit Committee

Acade	Academic Audit Committee			
S.No	Category	Designation	Name	
1.	Chairman	Principal	Dr. S.R.R. Senthil Kumar	
2.	Member Secretary & Convener	Audit Coordinator	Dr. R. Shivakumar	
3.		Internal Auditor – Mech	Mr.K.G.Saravanan	
4.		Internal Auditor – EEE	Dr.R.Shivakumar	
5.		Internal Auditor – Civil	Dr.S.Suresh	
6.		Internal Auditor – ECE	Dr.R. Vinodhkumar	
7.		Internal Auditor - CSE	Dr.A.C.Kaladevi	
8.	Members	Internal Auditor – EEE	Dr.J.Senthilkumar	
9.		Internal Auditor – FT	Mrs.S.Priyalatha	
10.		Internal Auditor – MBA	Mrs.S.Sathyakala	
11.		Internal Auditor – MCA	Dr.M.Geetha	
12.		Internal Auditor – Science and Humanities	Dr.V.Balasubramanyan	

Frequency of Meeting: At least twice a year

3. Standing Committee Members

The following Table 10.18 shows the list of members in standing committee.

Table 10.18 Standing Committee

S.No.	Category	Designation
1	Principal	Convener
2	Director – Academics	Member
3	Director- Industry Connect	Member
4	All HODs/Directors	Member
5	Member Secretary-Academic Council	Member
6	Controller of Examinations	Member

Roles and Responsibilities:

- 1. BoS meeting findings for Academic council approval.
- 2. Proposed amendments in Autonomous Regulations for Academic council approval.
- 3. Any other related matters.

Frequency of Meeting: At least twice a year

Research and Development Committee

The following Table 10.19 shows the list of members in Research and Development committee.

Table 10.19 Research and Development committee

S.No	Category	Designation	Name		
1.	Chairman	Principal	Dr. S.R.R. Senthil		
			Kumar		
	Member				
2.	Secretary &	Dean - EEE	Dr. S. Chandrasekar		
	Convener				
3.		Professor & HOD - MECH	Dr.D.Senthilkumar		
4.	Members	Professor – HOD-EEE	Dr. S. Padma		
5.		Professor – HOD-CSE	Dr.B.Sathiyabhama		

6.	Professor -HOD- ECE	Dr. R.S. Sabeenian
7.	Professor – HOD-IT	Dr. J. Akilandeswari
8.	Professor – HOD-FT	Prof. G. Gunasekaran
9.	Professor – Physics	Dr. S. Saravanan
10.	Professor – Physics	Dr. RajasriSenJaiswal
11.	Prof. & Dean (R&D) - Civil	Dr. R. Malathy
12.	Professor – MCA	Dr.T.Padma
13.	Joint Director - MBA	Dr. M. Selvaraj

Frequency of Meeting: At least twice a year

5. Library Committee

The following Table 10.20 shows the list of members in library committee. Table 10.20 Library committee

Chairman	Principal	Dr. S.R.R. Senthil					
	Trincipal	Kumar					
	Library In-Charge –Mech	Mr. N. Venkatesan					
	Library In-Charge – EEE	Mr. G.Karthikeyan					
	Library In-Charge – ECE(UG)	Mrs.P.Priya					
	Library In-Charge - ECE(PG)	Mr. G Ravi					
	Library In-Charge – CSE	Mrs.S.Theetchenya					
	Library In-Charge – IT	Ms.I.Janani					
	Library In-Charge – Civil	Mr.M.Soundarajan					
	Library In-Charge – FT	Mr.K.Mani					
Ex-Officio	Library In-Charge – Physics	Mr. M Muthukrishnan					
Members	Library In-Charge – Chemistry	Mr. M Mathivanan					
	Library In-Charge –Maths	Mrs.K.Buvaneswari					
	PTW & HTD	Mr.G.SaravanaPerumal					
	Library In-Charge – English	Mrs. M Saraswathy					
Member							
Secretary &	Librarian	Mr. N.Sreedharan					
Convener							
	Ex-Officio Members Member Secretary &	Library In-Charge -Mech Library In-Charge - EEE Library In-Charge - ECE(UG) Library In-Charge - ECE(PG) Library In-Charge - CSE Library In-Charge - IT Library In-Charge - Civil Library In-Charge - FT Ex-Officio Members Library In-Charge - Physics Library In-Charge - Chemistry Library In-Charge - Maths PTW & HTD Library In-Charge - English Member Secretary & Librarian					

Frequency of Meeting: At least twice a year

10.1.3.2 Service rules, Procedures, Recruitment and promotional policies

A. SERVICES RULES

1. Hours of Work

The working hours for the teaching faculty are between 08.50 A.M and 5.00 P.M IST; for the non-teaching and administrative staff (including staff in the administration department) the hours are from 9.30 A.M to 05.30 P.M. An Employee is expected to put around 49 hours of work every week.

2. Attendance and Punctuality

Regular attendance is essential to the efficient functioning of the institution and is a necessary condition of employment. Employees are expected to report to work as scheduled and on time.

3. Identification Card

Identification cards are issued to all staff members and they are expected to carry / wear them while they are in the campus.

4. Code of conduct

a. Dress code / Foot wear

The college observes a formal dress code. All employees should use discretion in wearing attire that is appropriate for the work in the institute. All female teaching staff are required to wear white coats provided by the institute during lectures.

b. Foot wear

Staff members are requested to wear slip-on shoes (Cut shoes or Pump shoes) or regular slippers with normal heels. Bathroom slipper or Hawai slippers are not allowed.

c. Prohibited Activities

The institute prohibits the consumption of alcohol and drugs, and gambling inside the premises. In addition, any damage caused to the institute's property or cases of dishonesty and harassment or indulging in violent behaviour with students, visitors or other staff, etc. will lead to disciplinary action, which may also lead to suspension or termination for failure to comply with institute policy.

d. Use of Telephone, Internet and Computer

The institute understands that when employees work during the week it is

occasionally necessary to conduct personal business during office hours. However employees should limit their personal use of the telephone, computer and internet during office hours.

e. Library

The library will be kept opened from 8 a.m to 8 p.m on all working days and from 10 a.m to 5 p.m on Sundays. Staff and students can make use of this facility.

B. Policies and Procedures

Recruitment & Selection policy for Teaching Faculty

Recruitment and Selection process aims to search and hire suitable candidates to fill vacancies in SONA to fulfil the requirements as per Higher Approval Authority norms (UGC, AICTE & Anna University).

Any position that becomes vacant will be filled, on completion of a Faculty Requirement Form by the concerned department / functional heads duly approved by the Principal and Chairman.

The success and adaptability of the institution depends upon employees who are flexible, adaptable and committed to the success of the SONA.

Recruitment Process

Step 1: Recruitment Authorization

Faculty Requirement Form submitted by the concerned department / functional head, duly authorized by the Principal and Chairman

Step 2: Sourcing

CV's are obtained from various sources like:

Resume data Base

Posting Advertisements

Resumes from Job portals (Naukri.com & monsterindia.com)

Employee Referrals

Step 3: Pre Screening & Interview

Pre-screening carried out by the HRD and the CV's forwarded to the concerned department head for further short listing

HRD shall organize an interview of the candidates who are shortlisted by the HODs.

Step 4: Interview Process

Interview by Panel members consists of:

Department Head

Senior professors

External Expert (Based on requirement & availability)

Step 5: Final Approval, Offer and Joining

The selected candidates will be presented to the Principal and Chairman for final approval.

Appointment letters will be issued to the candidates approved by the Chairman On the day of joining the candidate will report to the HRD. Further joining procedures will be completed by the HRD.

Probationary period

A new employee will be on probation for a period of one year from the date of joining. After the probationary period, the period of probation may be either extended, by another year or dispensed earlier. Employee's performance during the probationary period will be at the discretion of the management and thoroughly assessed, and only on satisfactory completion of initial or extended period of probation, new employee will be confirmed in the regular service of the Institution.

During the probationary period, employee may be terminated at the sole discretion of the management without assigning any reasons whatsoever, and without payment of any compensation. After the probationary period, employee will continue to be a deemed probationer till such time a written confirmation order is issued to employees, confirming their induction into the regular service of the Institution.

3. Increments and Promotions

- i. Employee's performance and contribution to the department and the institution will be an important consideration for salary increments and promotions.
- ii. Employee's increments and promotions will also be based on the appraisal done by the management, and superiors.

Resignation

Employees who wish to leave the services of SONA, he/she will be relieved only at the end of a semester, provided they have to tender three months' notice or surrender three month's salary. However, it is left to the discretion of the Management, to relieve earlier. Likewise, if employee's service is not satisfactory / required by the management, it has the discretion to terminate the services at any point of time, with a two months' notice.

Superannuation

The age of superannuation – (I) Teaching Faculty - 65 Years (II) Non Teaching – 58 Years

5. Employee Benefits

Medical Centre

Sona has a full – fledged Medical Centre, functioning during two sessions from 11.00 am to 01.00 pm and from 04.30 to 06.00 pm. Two Part time medical officers and one full – time staff nurse are available at the centre to provide medical attention to any staff or student in need of it.

Dr. A. S. Hemavathy - 11.00 am to 01.00 pm

Dr. T. Prakatheeswaran - 04.30 pm to 06.00 pm

Ms. A. Karpagavalli - 09.30 am to 06.00 pm

Provident Fund:

Employees who are eligible are entitled to Provident fund benefits as per the provisions of "Employees' Provident Fund and Miscellaneous Provisions Act 1952".

c. ESI

- (i) The Management is keen on extending the benefits of "Employees State Insurance" to the employees of our College. All the staff members (Teaching, Non-Teaching and Supporting), earning Rs.15,000/- and below, are registered under the E.S.I. scheme,
- (ii) As per the E.S.I. scheme, Staff has to contribute an amount of 1.75% of their total earnings every month. The Employer (College Management) in turn, shall contribute a sum of 4.75% of the total earnings of the employee

Gratuity

All employees are entitled to gratuity benefits as per the provisions of the "Gratuity Act 1972".

Group personal accident Insurance

All Employees completing 2 years of service in our Institution are eligible to cover under the Group insurance scheme. The benefits are:

- (i) Accidental hospitalization for Rs.20,000/- per staff
- (ii) Accidental death claim for Rs.2,00,000/- per staff

Financial Assistance for attending Seminars, Conferences, etc.,/Official visits/Paper Publications etc.,

The following Table 10.21 shows the criteria for facilitating professional

development programmes for all staff members with effect from 02-01-2014.

Table 10.21 Facilitating professional development programmes

Events/ Programs	Nature	Financial Assistance provided					
a. National /	Registratio	100 %, su	bject to the	e following:			
International	n Fee /	(National level – Max. limit : Rs. 3,000					
Seminar,	Course Fee	International - Max. limit : Rs. 7,000)					
conference,		1. Interna	tional venu	<u>e</u>			
Workshop,		- One way	travel				
Symposium, Paper	Travel	2. Venue	outside / wi	<u>thin Tamilna</u>	<u>du</u>		
presentations, etc.,	Allowance	- To & Fro	by Road/R	ail whichever	is less		
	Allowance	- For rail r	estricted to	Sleeper Clas	ss.		
b. SDP, FDP, Other		- For HOD	s / Profess	sors - permis	sible to 3		
Training		tier A/C.					
programmesorganis	Dearness	- D.A	Rs.300/da	ay for venu	es within		
ed by IITs, IIMs,	Allowance	Tamilnadu	ı .				
NITs, CII, FICCI,	(For Food	- D.A Rs.400/day for venues outside					
ISTE, AICTE and	& Local	Tamilnadu.					
other reputed		- D.A Rs.500/day for state capitals.					
institutions	Conveyanc e)	- No D.A will be provided for International					
	(-)	venues.					
c. For any other			Within	Outside	New		
Official visit to		Cadre	Tamilnad	Tamilnadu	Delhi,		
places outside			u	& State	Mumba,		
Salem (if				Capitals	Calcutta		
recommended or	Lodging	For all					
nominated by	Allowance	Staff	Rs.600/-	Rs.900/-	Rs.1200		
Management)	(Maximum	member	113.0007	113.500/	/-		
	Limit)	S					
	,	HODs &			Rs.1800		
		Professo	Rs.900/-	Rs.1200/-	/-		
		rs					
		Lodging E	xpenses fo	r Internation	al Venues		
		to be born	e by the Fa	aculty			

d. Norms for Paper		50% Publication cost in "Journals" (Impact
Publications (Highly	Cost of	Factor ">1" only) (Max. limit – National:
reputed Publishers,		Rs. 3,000, International: Rs. 7,000)
identified & listed		Other costs (Postages, etc) to be borne by
by the Institution)		Faculty

NOTE:

Financial assistance for attending Seminars, Conferences, etc, will be provided to the Faculty members only four times a year in India, and once in a year at 'International venues'. In special cases depending upon the importance and appropriateness to the institution, granting permission to attend, or sanctioning higher financial assistance, is left to the discretion of the management.

For official visits (if recommended or nominated by the Management), actual expenses incurred towards conveyance shall be claimed

Leave and Vacation

The following Table 10.22 shows the details of leave and vacation details for all staff with effect from 02-01-2015.

Table 10.22 Leave and Vacation

Leave	Number of Days	Eligibility				
STATUTORY HOLIDAYS	Statutory holidays as announced (18 days paid holidays)	All staff				
CASUAL	12 days	All staff				
MEDICAL MEDICAL	15 days per year with ½ pay and	After two years of				
LEAVE	eligible for VL	service				
MATERNITY LEAVE	3 months with full pay (for first 2 children only) Staff members availing Maternity leave are not eligible for	After one year of service				

	vacation lea	ave during t					
	year concer	ned and the					
	vacation lea	ve only after	completing				
	one year of						
	rejoining. S						
	duty after	maternity lea	ive have to				
	complete six	months of s	service to be				
	eligible for th	ne maternity l	eave pay				
MACATION	Vacation	Service	Service				
VACATION		less than 2	more than			year	of
LEAVE	Period	years 2 years					
TEACHING	Summer	2 Weeks 4 Weeks		servic	e		
TEACHING	Winter	1 Week	2 Weeks				
	Non teachir	ng staff car	avail the	After	one	year	of
	vacation leav	ve .	servic	e			
NON -				-Eligib	ole for	⁻ 14 day	/S
TEACHING	The non tea	aching staff c	an avail the				
TLACTING	vacation leav	ve round the	year subject	After	two	years	of
	to the appro	val of Principa	al and Heads	service			
	of the Depar	tment		-Eligib	ole for	⁻ 28 day	/S

Note:

- 1. Compensation Off will be approved if the employees work on holidays with the approval of Principal& HOD.
- 2. Any category of the above leaves cannot be clubbed.

On Duty Norms

The following Table 10.23 shows the details of On-Duty norms for all staff.

Table 10.23 On-Duty Norms

S.	Nature of work	No. of days		
No.		per semester		
1.	Anna University - Valuation / Invigilation / Practical /	10 days		
	AUR	,		
2.	Any Autonomous Institutions (Practical + Valuation +	5 days		
2.	Invigilation)	Jaays		

3.	Paper Presentation in conference, Seminars, Workshops & etc.	5 days	
4.	SDP, FDP, Other Training programmes organized by IITs, IIMs, NITs, CII, FICCI, ISTE, AICTE, Anna University (1 per Sem)	Programme days	
5.	Guest Lectures /Invited Lecturers / Resources person (Institution equivalent (or) above SONA standard)	- Actual days	
6.	Member ofBOS meeting / DC meetingSession jury - Conference, Workshop & etc.,	7.5544. 44,5	
7.	Official visits /Programmes nominated by Management	Actual days	

Note:

- 1. If the number of OD exceeds the above norms, needs approval of Principal, HR & HOD
- 2. In addition to the above, two days of on duty will be given for Ph.D. viva voce &Convocation.
- D.A. Norms for Staff I.V.s

The following Table 10.24 shows the details of D.A. Norms, for Staff members who are accompanying students during Industrial visits (I.V.).

Table 10.24 D.A. Norms for Staff - I.V.s

	Nature of					
Particulars	Financial	Amount of Assistance provided				
	Assistance					
Norms for Staff		- D.A Rs.200/day for venues				
members,	Dearness	with in Tamilnadu.				
accompanying	Allowance (For	- D.A. – Rs.300/day for venues				
students during	Food expenses)	outside Tamilnadu& State				
Industrial visits		capitals				

The following Table 10.25 shows the details of travelling allowances for staff members.

Table 10.25Travelling Allowance Chart

Allowance for Tour in India (Subject to change by Management)

Daily Allowance rates

S.		Level - I - Principal / Director / Dean /			Level - II	Level - II - Professor / Associate Level - III -Assistant Professor					sor /					
No	Category	HOD				Professor /	Professor / Head - Non Teaching				Non Teaching Staff					
INO		Travelling	а	b	С	D	Travelling	а	В	С	d	Travelling	a	b	С	d
		Actual					Two tier					Three tier				
		Economy					AC Train					AC Train				
		Class Flight					fare (One					fare (One				
	India	Charge of					Way) or					Way) or				
1	(INR per	First AC Train	3000	500	500	500	Three tier	1500	300	200	250		1000	300	200	100
	day)	fare (Both					AC Train					Sleeper				
		Ways) with					fare					Class				
		Management's				(Both					(Both					
		approvals				_	Ways)					Ways)		_		

Allowance for Oversees Tour

Daily Allowance rates

	,	Category	Level - I - Principal / Director / Dean /					Level - II - Professor / Associate					Level - III -Assistant Professor				
S. No			HOD					Professor					Level - III -ASSISIANT PROFESSOR				
	••		Travelling	а	b	С	d	Travelling	а	b	С	d	Travelling	а	В	С	d
1	-	USA	Actual	90	60	50	10	Actual	65	45	35	8	Actual	45	30	25	5
2	-	Canada	Economy	120	80	70	12	Economy	90	60	50	9	Economy	60	40	35	6

3	Australia	Class	120	80	80	12	Class	90	60	60	9	Class	60	40	40	6
4	Japan (Japaneses	Flight Charge	10300	7000	7000	1200	Flight Charge	7725	5250	5250	900	Flight Charge	5150	3500	3500	600
5	Malayasia	(Both	410	270	275	50	(One	300	200	200	35	(50 % of	205	135	140	25
6	Singapore	ways)	130	85	90	15	way)	95	60	70	12	One way)	65	40	45	8
7	UK(GBP/day)		75	50	50	9		55	35	35	7		40	25	25	5

a-Lodging b-Boarding c-Ground Transport d-Miscellaneous

Year of publication of Norms

D.A. Norms for staff – I.V.s : 22.09.2010

Financial Assistance for facilitating professional

: 02.01.2014 development programmes

On Duty Norms : 02.01.2015

Leave and Vacation : 02.01.2015

Travelling Allowance Chart : 20.10.2017

Extent of awareness among the employees/students: Yes

Details of Organization structure, Authorities, Administrative setup etc., were available at website www.sonatech.ac.in. Meeting circular and meeting minutes were updated to employees through Management Information System (Sona-Times). Information about Service rules, policies and procedures were mentioned in employee handbook which is also available in Sona-Times.

The minutes of the statutory body meetings are enclosed in Annexure 10.1

10.1.4 Decentralization In Working and Grievance Redressal Mechanism

The institute functions with perfect decentralized administration as depicted in Table 10.26 that has complete transparency in the decision making process.

Also, the following are the staff members who have been administering various tasks and hold the responsibility of decision making with the task assigned to it.

Table 10.26 Functions of key administrative positions

S.No	Department	Staff in-charge
1	Admission	Dr.G.M.Kadhar Nawaz
2	HR (Recruitment, Training, Appraisal, Welfare & Grievances)	Ms.G.K. Aarthi
3	Corporate Relationship Officer	Mr Ramesh
4	General Administration / Stores	Mr. V Venugopal

5	Continuing Education	Mr. A. Venkatesan
6	Management Information System	Dr. T. Padma
7	AICTE/UGC/University Correspondence	Mr. V. Selvamuthu
8	Estate Maintenance	Mr.A.L.Karthik
9	Civil Construction & Maintenance activities	Mr. M. Adhiyamaan
10	Power Distribution	Mr. R. Nanda Kumar
11	Computer Maintenance Group	Mr. Govindarajan
12	Transport	Mr. V Venugopal

The Principal, Directors and the Heads of the Department (HOD) concerned take decisions in all academic matters. The HODs conduct periodic meetings with the faculty and students and offer them suggestions. They also discuss with the Principal, Directors, and Chairman of the Board of Management on important matters related to the college functioning, and decision is taken by them through consensus. Most rules and regulations are circulated among staff, and decision is taken only after a thorough discussion with the stakeholders. The final decisions taken are circulated among all stakeholders for adoption. The discussions normally emanate from the faculty, at the faculty meetings with the HODs and then in the HODs meeting with the Principal. Most of the information like organizing conferences, permitting a faculty to travel overseas for presenting a paper, etc. travel from bottom to top for approval by the Management. If there is a common rule governing all concerned, it comes from top to bottom, that too after initiating a talk with the faculty or HODs as the case may be.

CASE STUDY

Decentralization and Participative management in Research and Development (R&D)

Every department has a Department Consultative Committee (DCC), in which HOD acts as the chair person. DCC members regularly meet with the department faculty members and take necessary steps to formulate and implement strategic plans of the institution. The role of the DCC is to review and approve industries or other identified organizations for industrial training, internship or project work for students. Also, the DCC gets the feedback from all the faculty members and study the impulses of the department in general and take steps for further improvements and recommend to the management for further corrective actions through Principal. Every Head of the Department of the Institution is empowered to organize conferences, workshop, symposium, etc, to develop their faculties and students. For the student academic development, each HOD acts as the Chairperson of the respective board of studies and recommends changes in the curriculum according to

the industry needs. Recently we introduced Choice Based Credit System (CBCS) to enhance the knowledge of the students.

Every department has a vision to widen the research and development activities in the field of emerging areas like nano-technology, robotics, automation, etc. In our institution, all the R&D centres have been decentralised and monitored by the department heads or senior research heads. Our Institute's commitment to advanced research in the areas of science, engineering and technology has nurtured thirty plus centres of excellence. Every department is encouraged to have at least one such centre. Many departments have established two/three centres each.

These centre heads will present the progress of their research activities before the management once a fortnight. To encourage the faculty and students of Sona College to carry out consultancy projects and testing services for industry, the management provides 60:40 sharing in the net revenue of such projects.

The centres focus primarily on applied research, product development, learningresources development and training of industry personnel. All these centres have in place advanced equipment and current technology.

There is a strong tendency towards inter-disciplinary research, especially in the areas of nano-technology, robotics, automation, etc, that generates new ideas and promotes the development of innovative products and processes. Both the faculty and the students alike contribute to the research, development and innovation at Sona.

The individual department research centres are monitored and controlled by the centre heads. The management gives full support in terms of finance and human resources to encourage application of patents submit research proposals, publications, participation in conferences and workshops, etc.

The Management gives ample freedom and flexibility to all the heads of the department lead all the Academic and Research and Development.

GRIEVANCE REDRESSAL MECHANISM

The management of the college follows an open system of administration and grievances from staff and students are given the utmost attention.

Complaints and suggestion boxes are kept at a number of places in the campus and also in thehostels.

The suggestions and complaints are carefully looked into and remedial measures undertaken.

Responses are also publicized through notice boards.

In case of indiscipline, a committee appointed by the principal enquires into the matter by callingwitnesses and recommendations are made about the action to be taken by the management.

Grievances regarding the staff are carefully looked into by the Heads of the Department inconsultation with the Principal and remedial measures taken.

Class Committee meetings are held in which grievances of students are taken note of and remedial measures taken. The following Table 10.27 shows the list of members in Grievance Redressal committee.

Table 10.27 Grievance Redressal committee

Externa	Externally-Constituted Committee							
Grievar	Grievance Redressal Committee							
S. No.	Name Category Designation							
1	Dr. S.R.R. Senthil Kumar	Ex-Officio	Principal					
2	Dr. M. Renuga	Coordinator	HOD- Humanities					
3	Dr. S. Ganesan	Member	Registrar					
	Dr. S. Gariesan	ricinibei	Anna University, Chennai					
4	Dr. M. Chandrasekar Member		Student Affairs,					
	Dr. Fr. Chanarasekar	ricinibei	Anna University, Chennai					
5	Dr. V. Jayabalan	Member	Controller of Examinations					
	Dr. V. Sayabalan	Pichibei	Anna University, Chennai					
6	Dr. A. Rajadurai	Member	Director, Centre for Affiliation					
	Dr. A. Najadarai	Fichibei	Anna University, Chennai					
7	7 Regional Director Me		Southern Regional Officer					
'			AICTE, Chennai					

Frequency of Meetings: At least twice a year

The following Table 10.28 shows the list of members in Anti-Ragging committee at hostel.

Table 10.28 Anti-Ragging committee at Hostel

Anti-R	Anti-Ragging Committee at Hostel							
S.No	Category	Designation	Name					
1.	Chairman	Principal Dr. S.R.R. S Kumar						
2.	Member Secretary & Convener	Professor – Physics & Deputy Warden, Hostels Dr. V. Balasubramani						
3.		Senior Executive Hostels	Mr. MeenachiSundaram					
4.		Asst. Prof. (Sr. Gr.)- Civil	Mr. A. Nagarajan					
5.		Asst. Prof. – Mechanical	Mr. A. Sivaprakasham					
6.	MEMBERS	Professor – CSE& Deputy warden Hostels	Dr. S. Sakthivel					
7.		Asst.Prof - CSE & Residential Tutor, Hostels	Ms. S. Theetchenya					

Frequency of Meeting: At least twice a year

10.1.5 Delegation of Financial Powers

The following Table 10.29 shows the details delegation of financial powers to various authorities.

Table 10.29 Delegation of financial powers

1	Academic Director	Upto Rs.100000/-
2	Director-Industry Connect	Upto Rs.100000/-
3	Principal	Upto Rs.100000/-
4	Deans	Upto Rs.50000/-
5	HODs	Upto Rs.50000/-

^{*}Further, bills/claims worth of more than Rs.1, 00,000/- (Rupees One Lakh) will be approved by the Chairman

10.1.6 Transparency and availability of correct/unambiguous information in public domain

College maintains transparency in all its operation and working. At the beginning of every semester, college brings out calendar of events that contains information of semester activities and the same is sent to all departments. Information on policies, rules, processes and its dissemination of this information is made available to Stakeholders on the college website. The required information about the college is made available on the college website www.sonatech.ac.in

Dissemination and Availability of Institute / program specific information through the web

A website by the URL <u>www.sonatech.ac.in</u> is available from which the latest information & happenings of the Institution can be accessed.

Formation of a Cell in accordance with the provisions of Right to Information Act, 2005

Exclusive intranet facility is available, through which the Management Information Systems (sonatimes) can be accessed across the institution. The norms, procedures, circulars & all other updated relevant information are available on the Management Information Systems (sonatimes).

Moreover, a separate links has been provides for each and every specific information in the website (www.sonatech.ac.in) such as AICTE, NAAC etc.

Also, the dissemination of information takes place through,

Department website http://www.sonatech.ac.in/it/

Curriculum / syllabus books

Display boards

Apart from this, mission and vision is disseminated to all the stakeholders of the programs through faculty meetings, workshops, student induction programs, and parent meetings.

10.2 Budget Allocation, Utilization, & Public Accounting at Institute Level (In Lacs)

The following Tables 10.30a, 10.30a, 10.30a, and 10.30a show the details of total income and actual expenditure for current financial year (2017 – 2018) and for last three years in institutional level.

Table B.10.30a For Current Financial Year (2017 – 2018) (Rs. In Lakhs)

Total Income in CFY (2017 – 2018): 4963.08				penditure 1 st 2017):		Total N of Students in CF 4643		
Fee	Gov t.	Grant(s)	Other sources (Specify*)	Recurri ng includin g Salaries	Non- recurrin g	Special Projects/ Any other specify [#]	Expendit e p student	tur per
3908.3 4	Nil	181.66	873.08	4043.6 6	1156.2 8	254.04	1.17	

^{*}Consultancy and Testing, Continuing Education / Sports Centre, Interest on Deposits, Misc. Receipts

Table B.10.30a_{1 -} For Current Financial Year minus 1 (2016 – 2017) (Rs. In Lakhs)

Total Income in FY (2016 - 2017): 4429.58			•	Actual Expenditure in FY (2016 – 2017): 4685.4			
Fee	Govt	Grant(s	Other sources (Specify*	Recurrin g including Salaries	Non- recurrin g	Special Projects / Any other specify#	Expenditur e per student
3387.7	Nil	235.94	805.93	3836.96	596.53	251.91	1.01

^{*}Consultancy and Testing, Continuing Education / Sports Centre, Interest on Deposits, Misc. Receipts

^{*} R&D Projects

^{*} R&D Projects

Table B.10.30a₂ For Current Financial Year minus 2 (2015 – 2016) (Rs. In Lakhs)

Total Income in FY (2015 – 2016): 4556.33			Actual Expenditure in FY (2015 – 2016): 4386.16			Total No. of Students in FY: 4823	
Fee	Govt	Grant(s	Other sources (Specify*	Recurrin g including Salaries	Non- recurrin g	Special Projects/An y other specify [#]	Expenditur e per student
3721.9 4	Nil	61.48	772.91	3977.84	317.05	91.27	0.91

^{*}Consultancy and Testing, Continuing Education / Sports Centre, Interest on Deposits, Misc. Receipts

Table B.10.30a_{3 -} For Current Financial Year minus 3 (2014 – 2015) (Rs. In Lakhs)

Total Income in FY (2014 – 2015): 4150.53			Actual Expenditure in FY (2014 - 2015): 3860.34			Total No. of Students in FY: 4858	
Fee	Govt	Grant(s)	Other sources (Specify*	Recurrin g including Salaries	Non- recurrin g	Special Projects/An y other specify [#]	Expenditu re per student
3513.3 2	Nil	36.94	600.27	3444.95	327.26	88.13	0.79

^{*}Consultancy and Testing, Continuing Education / Sports Centre, Interest on Deposits, Misc. Receipts

^{*} R&D Projects

^{*} R&D Projects, Depreciation

The following Table 10.30b shows the budget allocation and actual expenditure in category wise for the current financial year (2017 – 2018) and for last three years in institutional level.

Table B.10.30b Budget allocation and actual expenditure in category wise

Budget Allocat	Budget Allocation and Utilization – Category wise (Rs. In Lakhs)							
Items	Budgeted in CFY (2017 - 2018)	Actual expenses in CFY (2017- 2018)	Budgeted in CFY m1 (2016 - 2017)	Actual expenses in CFY m1 (2016 - 2017)	Budgeted in CFY m2 (2015 - 2016)	Actual expenses in CFY m2 (2015 - 2016)	Budgeted in CFY m3 (2014 - 2015)	Actual expenses in CFY m3 (2014 - 2015)
Infrastructur e - Built Up	750.00	748.25	150.00	170.57	130.00	132.68	150.00	119.15
Library	40.00	41.8	40.00	38.06	30.00	27.94	35.00	31.22
Laboratory Equipment	140.00	138.78	280.00	295.31	150.00	153.17	110.00	112.80
Laboratory Consumable s	32.00	32.97	30.00	29.34	22.00	19.49	20.00	18.71
Teaching and Non Teaching Salary	2120.0 0	2138.3 3	1900.0 0	1855.7 4	1870.0 0	1839.3 9	1800.0 0	1744.5 6
Maintenance and Spares	12.00	12.35	10.00	9.78	8.00	6.50	5.00	6.24
R&D	260.00	254.04	250.00	252.65	95.00	91.27	90.00	88.13
Training and Travel	43.00	45.24	38.00	39.97	35.00	42.31	30.00	30.71
Miscellaneou s Expenses	50.00	52.20	42.00	45.42	35.00	38.19	30.00	29.51
Others (Specify*)	1253.0 0	1240.0 2	1180.0 0	1170.3 9	1275.0 0	1233.0 4	1120.0 0	1071.6 4
Total	4700.0 0	4703.9 8	3920.0 0	3907.2 3	3650.0 0	3583.9 7	3390.0 0	3252.6 6

^{*}Furniture, Vehicle, A.C, Teaching Aids & Audio, Video Systems etc., Library (Camera & Accessories), Operational & Administrative Expenses*, Interest

^{*} Electricity/Advertisement/Promotional/Security/Placement Training etc.

10.2.1 Adequacy of budget allocation

The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory & infrastructure developments. Students, faculty & staff requirements and promotions and latest technologies etc., Formal budget estimates will be prepared by each department and will be reviewed in HODs meeting with the Principal and the Secretary.

After deliberations formal budget made altered in departments and forwarded to Principal for preparing final budget at college level. The final budget is sent to Management for approval and sanction. The Management is approving almost 100% which was proposed by the institute. The budget allocation and utilization for the last three years is adequate. The Table 10.31 shows the details of adequacy of budget allocation for the current financial year and for the last three years in institutional level.

Table 10.31 Adequacy of budget allocation

SI. NoS.NO.	Assessment Year	Budget Allocated in Lakhs (Rs.)	Actual Expenditure in Lakhs (Rs.)	Adequate/ in Adequate
1	CFY	4700.00	4703.98	ADEQUATE
2	CFYm1	3920.00	3907.23	ADEQUATE
3	CFYm2	3650.00	3583.97	ADEQUATE
4	CFYm3	3390.00	3252.66	ADEQUATE

10.2.2 Utilization of allocated funds (in %)

Funds are allocated by the Management of the College. Department Heads / Section-in-charges are intimated of the extent of funds allocated against their budget proposals. Major works like construction, up-gradation of existing infrastructure, procurement and maintenance of common utilities, house-keeping,

procurement of furniture etc. are controlled directly by the Accounts officer. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the college on approval by the Management. During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel etc. Almost 95% of the allocated budget provided by the management is effectively utilized by the institution for the last three years. The Table 10.32 shows the percentage of funds utilization for the current financial year and for the last three years in institution level.

Table 10.32 Utilization of allocated funds

SI. No.	Assessment Year	Budget Allocated in Lakhs (Rs.)	Actual Expenditure in Lakhs (Rs.)	Percentage of Utilization
1	CFY	4700.00	4703.98	100%
2	CFYm1	3920.00	3907.23	99.6%
3	CFYm2	3650.00	3583.97	98.1%
4	CFYm3	3390.00	3252.66	95.9%

10.2.3 Availability of the audited statements on the institute's website

10.3 Program Specific Budget Allocation, Utilization

The following tables 10.33a, 10.33a, 10.33a, and 10.33a show the details of total income and actual expenditure for current financial year (2017 – 2018) and for last three years in department of Electronics and Communication Engineering.

Table B.10.33a - For Current Financial Year (2017 – 2018) (Rs. In Lakhs)

Total Budget in FY (2017 – 2018) (For 12 Months): 478.7		Actual Expendit (2017 - 2018) : 299.68			
Non Recurring	Recurring	Non Recurring Recurring		Expenditure per student	
183.20	391.00	153.49	397.23	0.86	

Table B.10.33a₁ - For Current Financial Year minus 1 (2016 – 2017) (Rs. In Lakhs)

Total Budget in FY (2016 – 2017): 395.5		•	Actual Expenditure in FY (2016 - 2017): 391.11		
Non Recurring	Recurring	Non Recurring Recurring		Expenditure per student	
54.20	54.20 360.00		352.36	0.67	

Table B.10.33a_{2 -} For Current Financial Year minus 2 (2015 – 2016) (Rs. In Lakhs)

Total Budget in F (2015 – 2016): 3		Actual Expenditure in FY (2015 - 2016): 382.67 Non Recurring Recurring		Total No. of Students in FY: 590
Non Recurring	Recurring			Expenditure per student
30.50	352.00			0.64

Table B.10.33a_{3 -} For Current Financial Year minus 3 (2014 – 2015) (Rs. In Lakhs)

	Total Budget in FY Actual Expenditure in FY (2014 - 2015): 350.50 (2014 - 2015): 349.11		Total No. of Students in FY: 568	
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
30.00	323.00	30.84	320.54	0.62

The following Table 10.33b shows the budget allocation and actual expenditure in category wise for the current financial year (2017 – 2018) and for last three years for the department of Electronics and Communication Engineering.

Table B.10.33b Budget allocation and actual expenditure in category wise

Budget Allocation and Utilization – Category wise (Rs. In Lakhs)								
Items	Budgeted in CFY (2017 - 2018)	Actual expenses in CFY (2017- 2018)	Budgeted in CFY m1 (2016 - 2017)	Actual expenses In CFY m1 (2016 - 2017)	Budgeted in CFY m2 (2015 - 2016)	Actual expenses In CFY m2 (2015 - 2016)	Budgeted in CFY m3 (2014 - 2015)	Actual expenses In CFY m3 (2014 - 2015)
Laboratory Equipment	10.20	10.18	8.00	8.48	7.25	7.35	5.25	5.24
Software	3.00	3.20+23.60*	6.00	6.00	-	-	-	-
Laboratory Consumables	3.20	3.39	1.75	1.78	1.40	1.32	1.00	1.07
Maintenance and Spares	1.20	1.12	0.65	0.60	0.50	0.38	0.30	0.36
R&D	11.3	11.67	5.60	5.87	3.25	3.01	1.20	1.22
Training and Travel	3.70	3.55	3.25	3.07	3.00	2.92	2.50	2.66
Miscellaneous Expenses**	5.40	5.29	4.75	4.66	4.00	4.02	3.10	3.09
Total	38	38.40+23.60*	30.00	30.46	19.40	19.00	13.35	13.64

^{* *}Academic Activities includes Department Symposium, Guest Lecture and Work Shop etc

^{*} From Chockalingam Trust

10.3.1 Adequacy of budget allocation

The allocated budget was used to meet the new facilities for equipment, replacement of outdated equipment and new labs due to revision in syllabi.Budget requirements under recurring and non-recurring heads are collected from every departments and sections before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficiently doing this over the past several years that the institution never had any serious budget crunch that affected the functioning of the college. The Table 10.34 shows the details of adequacy of budget allocation for the current financial year and for the last three years for the department of Electronics and Communication Engineering.

Table 10.34 Adequacy of budget allocation

SI. No.	Assessment Year	Budget Allocated in Lakhs (Rs.)	Actual Expenditure in Lakhs (Rs.)	Adequate/ in Adequate
1	CFY	574.20	550.72	ADEQUATE
2	CFYm1	414.2	408.86	ADEQUATE
3	CFYm2	382.5	377.64	ADEQUATE
4	CFYm2	353	351.38	ADEQUATE

10.3.2 Utilization of Allocated Funds

Funds are allocated by the Management of the College. Department Heads are intimated of the extent of funds allocated against their budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables, etc. are initiated from the department and the funds are released

on a case by case basis from the accounts office of the college on approval by the Management. During the last three years, the budget was utilized to meet expenses like purchase of equipment, expenses towards consumables and contingencies, etc. The Table 10.35 shows the percentage of funds utilization for the current financial year and for the last three years for the department of Electronics and Communication Engineering.

Table 10.35 Utilization of allocated funds

Year	Budgeted	Expenses	Utilization of
i Cai	(Lakhs)	(Lakhs)	funds
Budgeted in CFY	574.20	550.72	95.91%
(2017-2018)			93.9170
Budgeted in CFY (m1)	414.2	408.86	98.71%
(2016-2017)			96.71%
Budgeted in CFY (m2)	382.5	377.64	98.70%
(2015-2016)			30.7070
Budgeted in CFY (m2)	353	351.38	99.54%
(2014-2015)) 99.J 4 /0

10.4 Library and Internet

10.4. Library and Internet

10.4.1. Quality of learning resources (hard / soft)

A. Sona Library

Librar	y Details	
S.No.	Category	Value
1	Carpet Area of Library (in m2)	825.26
2	Reading Space (in m2)	260
3	Number of Seats in Reading Space	200
4	Number of Users (Issue book) per Day	100-150
5	Number of Users (Reading space) per Day	200-250
6	Timings: During Working Day, weekend	Working Day: 8.00 AM to 8.00 PM
	and Vacation	Weekend: 10.00 AM to 4.00 PM
7	Number of Library Staff	8
8	Number of Library Staff with a Degree in Library	6
9	Library Management	Yes - AUTOLIB
10	Computerization for Search, Indexing	Yes
11	Issue/Return Records Bar Coding used	Yes
12	Library Services on Internet/Intranet INDEST or other similar membership	Yes
	archives	

The Library has developed an excellent collection of books, journals and non-book material in science, engineering, technology, humanities, social sciences and management. It maintains separate collections of Reference Books, Bound volumes of journals, Technical Reports, Theses, Video Cassettes, Compact Discs and Microforms. The library is using Autolib OPAC (Online Public Access Catalogue), wherein the users can search the Library Online Catalogue by Author's name, title,

subject, and keywords available on the campus LAN. The Table 10.37 shows the total collection of library resources in Sona.

Library Resource Collections

Resources	Numbers
Books & eBooks	80,640
CD's & Videos	2,479
Bound Volumes of Journals	2,034
Reports/ Standards	3,090
Photocopies	236
Total Collection	88,479
Current Journals on Subscription	123

Our College is an institutional member in DELNET, IIM (B), TERI & INSDAG Service Current Awareness Service(CAS)

Inter Library Loan(ILL)

Reference Service

News Paper Clipping Service

Book Bank Service

INTERNET Access

OPAC

Audio-Video Viewing

Photocopying

Internet Service

36 terminals are available for the users to browse the internet through 24 Mbps Broadband connectivity.

Current Awareness Service (CAS)

This service provides the latest information to users in the area of Science and Technology and Engineering on demand.

Inter Library Loan (ILL)

Books (not available with us) may be obtained from other libraries on request. The institution is a Member in Developing Library Network (DELNET). American Information Resource Centre (AIRC) & Indian Institute of Management (IIMB)

Electronic Library

The collection consists of CD-ROMs, Floppies and AV materials including a collection of video courses. NPTEL video courses produced by the Joint ventures by IIT's & IISC's, Stanford University and AIMA are made available to the users so that they can listen to the expert lectures in the concerned subjects.

Reference Service

Staffs are available in the reference section of the reading room to suggest sources of Information and to assist in locating the required materials.

Display of current events / information

Printing

Digitalization

User orientation / information literacy

New Arrivals Section

In the New Arrivals section, one copy of the new title or new edition is displayed for one month for attracting the students and staff members for using the library effectively and at the same time updating their knowledge.

Titles and Volumes per Title

Year	Number of new titles added	Number of new editions added	Number of new volumes added
2014-15	1023	-	2521
2015-16	310	-	1817
2016-17	775	-	2340
2017-18	663	-	1536

Scholarly journal

Details		2014-15	2015-16	2016-17	2017-18
Engg. and Tech.	As soft copy	3213	460	4982	2640
	As hard copy	130	123	130	123

B. Digital Library

Availability of digital library content : Yes

Availability of an exclusive server : Yes

Availability over Intranet/Internet : Yes

Availability of exclusive space/room : Yes

Number of users per day : 300-350

Product Description	No of Journal / eBooks
IEEE ASPP	169
Elsevier - Engineering + Computer	275
EBSCO	1078
NPTEL	260 Courses
Sage	12

Human Resource for Library

S.No.	Name	Designation	Qualification
1.	Sreedharan.N	Librarian	B.A., M.L.I.S.
2.	Vijayakumar.K.S	Asst.Librarian	B.Sc., M.L.I.S.
3.	Jaganmohanram.R	Asst.Librarian	B.Sc, M.L.I.S.
4.	Muthukumar.R	Asst.Librarian	M.L.I.S.
5.	Tamilarasi.E	Library Assistant	B.Com.(CA).,
6.	Poornimadevi.C	Library Assistant	B.A., M.L.I.S.
7.	Anuradha.R	Library Assistant	B.A., CLIS
8.	Revathi.S	Tr.Library	HSC (+2), CLIS

Library Expenditure on Books, Magazines/Journals, and Miscellaneous Content

Year	Expendi	s			
		if any			
	Books	Magazines/journals Magazines/journals Misc.			
	Rs.	(for hard copy (for soft copy cont			
	KS.	subscription) subscription) ent			
2014-15	125577	437689 1770157 -	_		
2014 15	8	1770137			
2015-16	782377	607980 1432576 -	-		
2016-17	107272	571851 1344977 -	_		
2010-17	5	1344977	_		
2017-18	840908	743466 1767303 -	-		

10.4.2 Internet

A. Internet Details

The following Table 10.45 shows the Internet details in Sona. It includes the details of service provider, bandwidth, speed and accessibility.

Table 10.45 Internet Details

Internet Details	
Name of the Internet provider	Airtel+Tata Communication
	Limited
Available bandwidth	Leased Line
Access speed	155+50 Mbps(1:1)Symmetric
Availability of Internet in an exclusive lab	Yes
Availability in most computing lab	Yes
Availability in Departments and other units	Yes
Availability in Faculty rooms	Yes
Institute own e-mail facility to faculty/students	Yes
Security/privacy of e-mail/internet users	Yes
Wi Fi availability:	Yes

The Cyber roam Model 500iNG It provides the security against threats in the following

Web and application filter

Intrusion prevention system

Gateway antivirus

Gateway anti-spam

Handled 25 lakhs sessions

B. Safety Norms and Checks

Checks for wiring and electrical installations for leakage and earthing

Proper fencing for high tension equipment

Lightning arresters

Proper overload & earth fault protections

Rubber mats

Earthing arrangements

Use of ISS certified materials

Periodical testing of protective equipment

Underground cables distribution

Preventive maintenance works

Firefighting measurements: Effective safety arrangements with emergency/multiple exits and ventilation/ exhausts in auditoriums and large class rooms/laboratories, fire-fighting equipment and training, availability of water and other such facilities.

Fire extinguishers are provided in all the places where they are required.

Safety civil structure

All safety measures like helmets, safety belts, goggles etc., are used in construction works.

Area surrounding the buildings under construction is cordoned off and entry is restricted.

Handling hazardous chemicals and other such activities

Display boards giving clear instructions are kept in important locations.

Counseling and Emergency Medical Care and First aid

Institute through its health Centre provides preventive, promotive & curative health services to the students, employees & their families. Resident doctor on campus & 24 x 7 availability of ambulance services to take care of emergency needs.

A holistic health service available at health centre includes physician and counselors. Alternative health services like Homeopathy & yoga areavailable. Referral for Ayurvedicservices is available. Physiotherapy services promote fitness & address sports related problems.

First aid facility is provided at all hostels.

Declaration

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual

concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as

on date and the institute shall fully abide by them. It is submitted that information provided in this Self-

Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action

against the Institute will be initiated by the NBA in case any false statement/information is observed

during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: Signature & Name

Place: Head of the Institution with seal

ANNEXURES

ANNEXURE I

PROGRAM OUTCOMES

On completion of the B.E (ECE) degree graduates will be able to

- 1. Utilize the basic knowledge in mathematics, science and engineering in Electronics and Communication Engineering field.
- 2. Identify, formulate and solve complex problems to achieve demonstrated conclusions using mathematical principles and engineering sciences.
- 3. Design system components that meet the requirement of public safety and offer solutions to the societal and environmental concerns.
- 4. Apply research based knowledge to design and conduct experiments, analyze, synthesize and interpret the data pertaining to Electronics and Communication Engineering problems and arrive at valid conclusions.
- 5. Construct, choose and apply the techniques, resources and modern engineering tools required for Electronics and Communication Engineering applications.
- 6. Apply the contextual knowledge to assess societal, health, safety and cultural issues and endure the consequent responsibilities relevant to the professional engineering practice.
- 7. Examine the impact of engineering solutions in global and environmental contexts and utilize the knowledge for sustained development.
- 8. Develop consciousness of professional, ethical and social responsibilities as experts in the field of Electronics and Communication Engineering.
- 9. Perform effectively as a member/leader in multidisciplinary teams.
- 10. Communicate the engineering activities to engineering society for documentation and presentation.
- 11. Demonstrate knowledge and understanding of the engineering and management principles to manage projects in multidisciplinary environment.
- 12. Demonstrate resourcefulness for contemporary issues and lifelong learning.

PROGRAM SPECIFIC OUTCOMES

On the completion of the B.E (ECE) degree the Electronics and Communication graduates will be able to

PSO1 Apply the fundamental concept of Electronics and Communication Engineering to design a variety of components and systems for applications including signal processing, Image processing, Communication, Networking, Embedded systems, VLSI and control system.

PSO2 Select and apply cutting-edge engineering hardware and software tools to solve complex Electronics and Communication Engineering problems.

ANNEXURE 1.4

Detail of different committees in the department

DEPARTMENT ACADEMIC COMMITTEE [DAC]

The following list of faculty members are the members of department academic committee. They are monitoring the academic activities of faculty members and academic performance of students. It is the responsibility of the committee to prepare the result analysis for both Continuous Internal Evaluation (CIE) test and Semester End Examinations (SEE).

S. No.	Academic year	Name of the Faculty Member	Designation
1		Dr. R.S.Sabeenian	Professor & Head
2		Dr. R.Vinod kumar	Professor
3	0047.40	Dr. K.R.Kavitha	Asso. Professor
4	2017-18	Ms. S.Vijayalakshmi	Asst. Professor
5		Ms. R.Gayathri	Asst. Professor
6		Ms. P. Priya	Asst. Professor
1.		Dr.Kishana Ram Kashwan	Professor & Head
2.		Dr.R.S.Sabeenian	Professor & Deputy Head
3.	2016-17	Dr.R.Vinod kumar	Professor
4.		Ms.S.Vijayalakshmi	Asst. Professor
5.		Ms.M.Senthil Vadivu	Asst. Professor
1.		Dr.B.Gopi	Professor & Head
2.		Dr.R.S.Sabeenian	Professor
3.	2015-16	Dr.R.Vinod kumar	Professor
4.		Dr.B.Thiyaneswaran	Asst. Professor
5.		Ms.S.Vijayalakshmi	Asst. Professor

DEPARTMENT AUDIT COMMITTEE [DAUC]

Department Audit committee is formed to conduct the audit for the CIE tests conducted for all the years. The committee is audited the question paper setting, whether Bloom's taxonomy is followed and the correctness of the answer paper evaluation. The committee is submitted a report on each audit which is submitted to the Examination cell.

SI. No	Academic year	Name of the Faculty Member	Designation
1.		Dr. R.S.Sabeenian	Professor & Head
2.		Dr. R.Vinod kumar	Professor
3.		Prof. J.P.Senthil Kumar	Asso.Professor
4.	2017-18	Prof. S.Deepa	Asso.Professor
5.	2017-10	Dr. K.R.Kavitha	Asso.Professor
6.		Dr. N.Sasirekha	Asso.Professor
7.		Prof .J.Harirajkumar	Asso.Professor
8.		Ms. R.Gayathri	Asst.Professor
9.		Dr.R.S.Sabeenian	Professor & Head
10.		Dr.R.Vinod kumar	Professor
11.		Prof.J.P.Senthil Kumar	Asso.Professor
12.	2016-17	Prof.S.Deepa	Asso.Professor
13.	2010-17	Dr.K.R.Kavitha	Asso.Professor
14.		Dr.N.Sasirekha	Asso.Professor
15.		Mr.J.Harirajkumar	Asso.Professor
16.		Ms.M.Senthil Vadivu	Asst. Professor
17.		Dr.B.Gopi	Professor & Head
18.		Dr.R.S.Sabeenian	Professor
19.		Dr.R.Vinod kumar	Professor
20.		Prof.J.P.Senthil Kumar	Asso.Professor
21.	2015-16	Prof.S.Deepa	Asso.Professor
22.		Dr.K.R.Kavitha	Asso.Professor
23.		Dr.N.Sasirekha	Asso.Professor
24.		Mr.J.Harirajkumar	Asso.Professor
25.		Dr.B.Thiyaneswaran	Asst.Professor

DEPARTMENT CONSULTATIVE COMMITTEE [DCC]

The department consultative committee is framed to give advices on academic and professional activities, guide and offer suggestions to the faculty members and students for the submission of project proposals.

SI.No	Academic year	Name of the Faculty member	Designation
1.		Dr. R.S. Sabeenian	Professor & Head
2.		Dr. R.Vinod Kumar	Professor
3.		Prof. S. Deepa	Asso. Professor
4.	2047.40	Dr. K.R. Kavitha	Asso. Professor
5.	2017-18	Prof .J. Harirajkumar	Asso. Professor
6.		Ms. T. Shanthi	Asst. Prof. (Sr.G)
7.		Ms. S.Vijayalakshmi	Asst. Professor
8.		Dr.Kishana Ram Kashwan	Professor & Head
9.		Dr.R.S.Sabeenian	Professor & Deputy Head
10.		Dr. K.R. Kavitha	Asso. Professor
11.		Prof .J. Harirajkumar	Asso. Professor
12.	2016-17	Ms.M.Susaritha	Asst. Professor
13.	2016-17	Ms. S.Vijayalakshmi	Asst. Professor
14.		Ms.D.P.Sangeetha	Asst. Professor
15.		Ms.A.Sangeetha	Asst. Professor
16.		Dr.B.Gopi	Professor & Head
17.		Dr. R.S. Sabeenian	Professor
18.		Prof.J.P.Senthil kumar	Asso.Professor
19.		Dr. K.R. Kavitha	Asso. Professor
20.	2015-16	Mr.J. Harirajkumar	Asso. Professor
21.		Ms. T. Shanthi	Asst. Prof. (Sr.G)
22.		Ms.M.Senthil Vadivu	Asst.Professor
23.		Ms. S.Vijayalakshmi	Asst. Professor

CLASS COUNSELORS LIST

Academic year: 2017-18

SI.No	year	Name of the Faculty member	Designation
1.	II year	A-S.Vijayasharathi	Asst. Professor
		B-B.Geethalakshmi	Asst. Professor
		C-M.Amutha	Asst. Professor (Sr.G)
		D-K.Saranya	Asst. Professor
2.	III year	A-S.Jayapoorani	Asst. Professor
		B-N.Sasirekha	Asso. Professor
		C-K.R.Kavitha	Asso. Professor
		D-M.Jamuna rani	Asst. Professor (Sr.G)
3.	IV year	A-R.Vinodkumar	Professor
		B-T.Shanthi	Asso. Professor
		C-S.Deepa	Asso. Professor

CLASS COUNSELORS LIST

Academic year : 2016-17

SI.No	year	Name of the Faculty member	Designation
1.	II year	A-S.Jayapoorani	Asst. Professor
		B-N.Sasirekha	Asso. Professor
		C-K.R.Kavitha	Asso. Professor
		D-M.Jamuna rani	Asst. Professor (Sr.G)
2.	III year	A-R.Vinodkumar	Professor
		B-D.Jayanthi	Asso. Professor
		C-S.Deepa	Asso. Professor
3.	IV year	A-M.Susaritha	Asst. Professor
		B-D.P.Sangeetha	Asst. Professor
		C-A.Sangeetha	Asst. Professor

CLASS COUNSELORS LIST

Academic year : 2015-16

SI.No	year	Name of the Faculty member	Designation
1.	II year	A - R.Vinodkumar	Professor
		B - D.Jayanthi	Asso. Professor
		C - S.Deepa	Asso. Professor
2.	III year	A - M.Susaritha	Asst. Professor
		B - D.P.Sangeetha	Asst. Professor
		C - A.Sangeetha	Asst. Professor
3.	IV year	A - M.Senthil vadivu	Asst. Professor Asst.
		B - J.P.Senthil kumar	Professor Asst. Professor
		C - T.Shanthi	(Sr.G)

Annexure 2.1.2

Structure of the Curriculum for other regulations

Regulations- 2015

Course	Course	Tota	l Number o	of contact hou	ırs	Credits
Code	Title	Lecture	Tutorial	Practical#	Total	
		Credits	(T)	(P)	Hours	
U15ENG101	Technical English – I	(L)	0	2	4	3
U15MAT102	Matrices and Calculus	3	2	0	5	4
U15PHY103		3	0	0	3	3
U15CHE104	Engineering Physics Engineering Chemistry	3	0	0	3	3
U15FOC105	Fundamentals of Computing	3	0	0	3	3
U15BEE106	Basic Electrical and	3	0	0	3	3
UISBEETUO	Electronics Engineering	3	0	U	3	3
U15PCL107	Physics and Chemistry	0	0	2	2	1
	Laboratory - I					
U15CPL108	Computer Practices	0	0	2	2	1
	Laboratory					
U15EPL109	Engineering Practices	0	0	2	2	1
	Laboratory					
U15ENG201	Technical English – II	2	0	2	4	3
U15MAT202	Vector Calculus and Complex	3	2	0	5	4
	Analysis					
U15PHY203A	Physics For Electrical and	3	0	0	3	3
	Electronics					
	Engineering					
U15CHE205A	Chemistry For Electrical and	3	0	0	3	3
	Electronics					
	Engineering					
U15CPR206	Introduction to Data	3	0	0	3	3
	Structures in C					
U15EGR207	Engineering Graphics	2	2	0	4 2	3
U15PCL208	Physics and Chemistry	0	0	2	2	1
	Laboratory – II					
U15CPL209	Programming Laboratory II	0	0	3	3	1
U15BEEL210	Basic Electrical and	0	0	3	3	1
	Electronics Engineering					
114884	Laboratory				_	,
U15MAT301C	Transforms and Linear	3	2	0	5	4
114550664	Algebra					
U15EC301	Electronic Devices	4	0	0	4	4
U15EC302	Network Analysis and	4	0	0	4	4
114550666	Synthesis					
U15EC303	Digital System Design	4	0	0	4	4
U15EC304	Signals and Systems	4	0	0	4	4
	Seminar*	0	0	1	1	0
	Library*	0	0	1	1	0

U15EC305	Electronic Devices	0	0	4	4	2
0.1020000	Laboratory	Ü		·	•	_
U15EC306	Digital Laboratory	0	0	4	4	2
U15ENG301	English Laboratory	0	0	4	4	2
U15MAT401C	Probability and Stochastic	3	2	0	5	4
	Processes					
U15EC401	Engineering Electromagnetics	3	2	0	5	4
U15EC402	Electronic Circuits	3	0	0	3	3
U15EC403	Linear Integrated Circuits	3	0	0	3	3
U15EC404	Measurements and	3	0	0	3	3
	Instrumentation	_	_	_	_	_
	Games and Sports*	0	0	2	2	0
	Library*	0	0	2	2	0
	Seminar*	0	0	2	2	0
U15EC405	Linear Integrated Circuits Laboratory	0	0	4	4	2
U15EC406	Electronic Circuits and Simulation Laboratory	0	0	4	4	2
U15EC407	Virtual Instrumental SCI Laboratory	0	0	4	4	2
U15EC501	Analog Communication Systems	3	0	0	3	3
U15EC502	Digital Signal Processing	3	2	0	5	4
U15EC503	Transmission Lines and Waveguides	3	2	0	5	4
U15EC504	Microprocessors and Microcontroller	3	0	0	3	3
U15CS507	C++ with Data Structures	3	0	0	3	3
U15EC505	Automatic Control Systems	3	2	0	5	4
	Games and Sports*	0	0	2	2	0
	Library*	0	0	1	1	0
	Group Discussion*	0	0	2	2	0
	Comprehensive Review*	0	0	2	2	0
U15EC506	Microprocessors and Microcontroller Laboratory	0	0	4	4	2
U15EC507	Digital Signal Processing Laboratory	0	0	4	4	2
U15EC601	Digital Communication	3	2 2	0	5	4
U15EC602	Antenna and Wave Propagation	3	2	0	5	4
U15GE601C	Quantitative Aptitude and Reasoning	1	4	0	5	3
	Professional Elective - I	3	0	0	3	3
	Professional Elective - II	3	0	0	3	3
	Open Elective - I	3	0	0	3	3
	Library*	0	0	1	1	0
	Seminar*	0	0	1	1	0
	Comprehensive Review*	0	0	2	2	0
	Internship / In-plant Training	0	0	0	0	0

U15EC603	Communication Laboratory	0	0	4	4	2
U15CS605	C++ Laboratory	0	0	4	4	2
U15EC604	Mini Project	0	0	4	4	2
	Professional Ethics and	3	0	0	3	3
	Human Values					
	Microwave Engineering	3	0	0	3	3
	Professional Elective - III	3	0	0	3	3
	Professional Elective - IV	3	0	0	3	3
	Professional Elective – V	3	0	0	3	3
	Open Elective - II	3	0	0	3	3
	Comprehensive Review*	0	0	2	2	0
	Library*	0	0	2	2	0
	Seminar*	0	0	2	2	0
	Internship / In-plant Training	0	0	0	0	0
	Microwave Laboratory	0	0	4	4	2
	Embedded Systems	0	0	4	4	2
	Laboratory					
	Major Project	0	0	20	20	10
	Internship / In-plant Training	0	0	0	0	0
	Total	119	26	115	260	176
	LIST OF PROFE	ESSIONAL I	ELECTIVES	3		
U15EC901	Satellite Communication	3	0	0	3	3
U15EC902	Telecommunication and	3	0	0	3	3
	Switching Networks					
U15EC903	Artificial Intelligence	3	0	0	3	3
U15EC904	Computer Networks	3	0	0	3	3
U15EC905	Digital Image Processing	3	0	0	3	3
U15EC906	CMOS VLSI Design	3	0	0	3	3
U15EC907	Optical Fibre Communication	3	0	0	3	3
U15EC908	Cellular and Mobile	3	0	0	3	3
	Communication				_	
U15EC909	Sensor Networks	3	0	0	3	3
U15EC910	Network Security	3	0	0	3	3
U15EC911	Embedded Systems	3	0	0	3	3
U15EC912	Modern Radio	3	0	0	3	3
	Communication					
U15EC913	RADAR Engineering	3	0	0	3	3
U15EC914	FPGA based System Design	3	0	0	3	3
U15EC915	Numerical Methods for	3	0	0	3	3
	Engineering Computation					_
U15EC916	Disaster Management	3	0	0	3	3

^{*}No credit for Seminar, Library, Games and Comprehensive review.

Regulations- 2015R

		Total Number of contact hours				
Course	Course	Lecture	Tutorial	Practical	Total	Credits
Code	Title	(L)	(T)	(P)	Hours	
U15ENG101AR	Technical English – I	2	0	2	4	3
U15MAT102CR	Mathematics – I for ECE	3	2	0	5	4
U15PHY103BR	Physics for ECE	4	0	0	4	4
U15CHE104BR	Applied Chemistry	3	0	0	3	3
U15CPR105BR	C Programming	3	0	0	3	3
U15EGR106BR	ngineering Graphics for ECE	2	2	0	4	3
U15PCL107BR	Physics and Chemistry Laboratory - I	0	0	4	4	2
U15CPL108BR	C Programming Laboratory	0	0	4	4	2
	Library	0	0	2	2	0
	Seminar	0	0	2	2	0
U15ENG201AR	Technical English – II	2	0	2	4	3
U15MAT202CR	Mathematics – II for ECE	3	2	0	5	4
U15MEC203R	Basic Mechanical Engineering	3	0	0	3	3
U15CHE204BR	Environmental Engineering Science	3	0	0	3	3
U15BEE205BR	Basic Electrical Engineering	3	0	0	3	3
U15PCL206CR	Physics and Chemistry Laboratory - II	0	0	4	4	2

U15EPL207R	Engineering Practices Laboratory	0	0	4	4	2
U15BEL208R	Basic Electrical Engineering Laboratory	0	0	4	4	2
	Library*	0	0	2	2	0
	Seminar*	0	0	2	2	0
U15MAT301CR	Transforms and Linear Algebra	3	2	0	5	4
U15EC301R	Electronic Devices	3	0	0	3	3
U15EC302R	Network Analysis and Synthesis	3	2	0	5	4
U15EC303R	Digital System Design	3	0	0	3	3
U15EC304R	Signals and Systems	3	2	0	5	4
	Seminar*	0	0	1	1	0
	Library*	0	0	1	1	0
U15EC305R	Electronic Devices Laboratory	0	0	2	2	1
U15EC306R	Digital Laboratory	0	0	2	2	1
U15ENG302R	English Laboratory	0	0	4	4	2
U15GE301R	Soft Skills and Aptitude - I	0	0	2	2	1
U15MAT401CR	Probability and Stochastic Processes	3	2	0	5	4
U15EC401R	Engineering Electromagnetics	3	2	0	5	4
U15EC402R	Electronic Circuits	3	0	0	3	3
U15EC403R	Linear Integrated Circuits	3	0	0	3	3
U15EC404R	Digital Signal Processing	3	2	0	5	4

U15EC405R	Analog Communication Systems	3	0	0	3	3
	Library*	0	0	1	1	0
	Seminar*	0	0	2	2	0
U15EC406R	Linear Integrated Circuits Laboratory	0	0	2	2	1
U15EC407R	Electronic Circuits and Simulation Laboratory	0	0	2	2	1
U15EC408R	Digital Signal Processing Laboratory	0	0	2	2	1
U15GE401R	Soft Skills and Aptitude - II	0	0	2	2	1
	Digital Communication	3	0	0	3	3
	Transmission Lines and Waveguides	3	2	0	5	4
	Microprocessors and Microcontroller	3	0	0	3	3
	C++ with Data Structures	3	0	0	3	3
	Automatic Control Systems	3	2	0	5	4
	VLSI Design	3	0	0	3	3
	Library*	0	0	1	1	0
	Seminar*	0	0	2	2	0
	Microprocessors and Microcontroller Laboratory	0	0	2	2	1
	VLSI Laboratory	0	0	2	2	1
	Communication Laboratory	0	0	4	4	2
	Soft Skills and Aptitude - III	0	0	2	2	1
	Antenna and Wave	3	0	0	3	3

	Propagation					
	Digital Image Processing	3	0	0	3	3
	Professional Ethics and Human Values	3	0	0	3	3
I	Professional Elective - I	3	0	0	3	3
	Professional Elective - II	3	0	0	3	3
	Open Elective - I	3	0	0	3	3
	Library*	0	0	1	1	0
	Group Discussion*	0	0	2	2	0
	Internship / Industrial Training	0	0	0	0	0
	Digital Image Processing Laboratory	0	0	2	2	1
	C++ Laboratory	0	0	4	4	2
	Soft Skills and Aptitude - IV	0	0	2	2	1
	Mini Project	0	0	4	4	2
	Embedded Systems	3	0	0	3	3
	Optical Fiber Communication	3	0	0	3	3
	Microwave Engineering	3	0	0	3	3
	Professional Elective - III	3	0	0	3	3
	Professional Elective - IV	3	0	0	3	3
	Open Elective - II	3	0	0	3	3
	Library*	0	0	1	1	0

Internship / Industrial Trainir	ng 0	0	0	0	0
Microwave and Optical Laboratory	0	0	4	4	2
Embedded Systems Laboratory	0	0	4	4	2
Comprehensive Review	0	0	2	2	1
Major Project	0	0	20	20	10
Internship / Industrial Trainir	ng 0	0	0	0	0
Total	118	22	114	254	176
LIST OF PRO	FESSIONAL E	LECTIVES			
Satellite Communication	3	0	0	3	3
Wireless Communication	3	0	0	3	3
Cellular and Mobile Communication	3	0	0	3	3
Cellular Technologies and Applications	3	0	0	3	3
Modern Radio Communicati	ion 3	0	0	3	3
Statistical Theory of Communication	3	0	0	3	3
High Speed Network	3	0	0	3	3
Computer Networks	3	0	0	3	3
Wireless Networks	3	0	0	3	3
Network Security	3	0	0	3	3
Advanced Digital Signal Processing	3	0	0	3	3
Speech Processing	3	0	0	3	3

Artificial Neural Network	3	0	0	3	3
Pattern Recognition	3	0	0	3	3
Artificial Intelligence	3	0	0	3	3
Advanced Microprocessors	3	0	0	3	3
FPGA based System Design	3	0	0	3	3
Computer Architecture	3	0	0	3	3
Measurement and Instrumentation	3	0	0	3	3
Bio-Medical Instrumentation	3	0	0	3	3
Virtual Instrumentation	3	0	0	3	3
RADAR Engineering	3	0	0	3	3
RF MEMS	3	0	0	3	3
Electromagnetic Interference and Electromagnetic Compatibility	3	0	0	3	3
Antennas for Wireless Application	3	0	0	3	3
Nano Electronics	3	0	0	3	3
Disaster Management	3	0	0	3	3
Numerical Methods for Engineering Computation	3	0	0	3	3

^{*}No credit for Seminar, Library, Games and Group Discussion.

Annexure 2.1.3.

Components of the curriculum for other regulations

Regulation - 2015

Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	17	36	30
Engineering Sciences	16	39	29
Humanities and Social Sciences	6	15	11
Program Core	39.6	95	70
Program Electives	9	15	15
Open Electives	3.4	6	6
Project(s)	6.8	24	12
Internships/Seminars	-	6	0
Employability Enhancement	1.7	5	3
	Total n	umber of Credits	176

Regulation - 2015R

Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	15.3	35	27
Engineering Sciences	17.6	42	31
Humanities and Social Sciences	8	18	14
Program Core	39.7	89	70
Program Electives	7	12	12
Open Electives	3.4	6	6
Project(s)	6.8	24	12
Internships/Seminars	-	9	-
Employability Enhancement	2.2	8	4
	Total r	number of Credits	176

ANNEXURE 2.2.3

Details of Student Project

Guidelines for preparation of project reports and thesis.

- The slides should have title of the project, literature review, existing methodology based on literature, draw back on existing methods, motivation, objective, applications, block diagram, stage by stage explanation, results & discussion, Work completed chart, publication if any, and reference with standard IEEE format.
- 2. The first slide consists of title of project work, batch no, name of team members with register numbers and supervisor.
- 3. Literature review may within 2 slides. It may consist of 2 column table. 1st column consists of 1st author name and title and corresponding explanation is given 2nd column (use bullets). **Kindly avoid the paragraph style.**
- 4. Existing methodology within 1 slide. It may consist of 2 column table. 1st column consists of method name and corresponding draw back may give in 2nd column (use bullets). **Kindly avoid the paragraph style.**
- 5. Motivation and objective are to be with 1-2 lines and some cases maximum of 3 lines. (Use separate slides).
- 6. Application of the project.
- 7. The block diagram of the project should be neatly drawn and **don't copy** from the other sources such as journal papers or Google images.
- 8. The stage by stage explanation may give it in consequent slides.
- 9. In case of hardware projects, each modules may explained separately as follows.
 - The complete circuit diagram shown in one slide. (Draw the circuit diagram using ORCAD, Multi-SIM or work bench etc..)
 - Use 1 slide for each module (some cases 2 slides).
 - ➤ It consists of module diagram, circuit diagram and component list with range if anv.
 - Result obtained on the module.
- 10. In case of simulation projects, each stage may explained separately as follows,
 - Use 1 slide for each stage.
 - > The slide consists of explanation, exact command/ function/ tool used.
 - Result obtained on the stage.

- 11. The overall input and result obtained is given in separate slide and any measurement parameter such as accuracy, sensitivity, etc may also give).
- 12. Comparison of existing method with proposed method may give in separate slide.
- 13. Collective photography of project may within a slide.
- 14. List of publication in separate slide.
- 15. Conclusion.
- 16. Reference should list in IEEE format.
- 17. The slides should be within 18 to 20.
- 18. The slide number and date of presentation are included in all the slides except slide number in 1st slide.
- The above guidelines are mandatory and student may innovatively add based on their needs.

INSTRUCTION FOR PREPARING PROJECT REPORT

• The template should be strictly followed.

Short tips:

Page setup: Top: <u>1.3"</u>, bottom: <u>1.1"</u>, Left: <u>1.4"</u>, Right: <u>1.2"</u>. Paper: <u>A4</u>.

Report stacked in the following order:

Cover Page & Title Page

Bonafide Certificate

Abstract

Table of Contents

List of Tables

List of Figures

List of Symbols, Abbreviations and Nomenclature

Chapter1- Introduction.

Chapter2- Literature review. (Literature, Existing Methods, draw backs).

Chapter3- Problem statement (Covers existing methods, drawbacks, motivation, objective and Applications).

Chapter4- Proposed methodology (Block diagram, circuit diagrams).

Chapter5

Chapter6 -Use separate chapters for each module.

Chapter7

Chapter8- Results & Discussion.

Chapter9- Conclusion.

Chapter10-List of publications.

Chaptet11-Reference.

Appendices

- > Photography for hardware project colour print out.
- The above guidelines are to be followed for preparing report and hard copy of report template.

Mapping of project title with PO

CAY (2017-18)

Project	Project Title	РО	PS	PS											
No		1	2	3	4	5	6	7	8	9	10	11	12	0	0
														1	2
1.	Wireless Health Mentoring System	√	✓	<	✓	✓									
2.	Real time GSM based skid cooling LPG Pipeline Monitoring System	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	\	\	✓
3.	Advance fire detection in Video using Image Processing	√	✓	✓	✓	✓	√	√	✓	√	√	√	✓	✓	✓
4.	Recognition and classification of Hand Written Tamil Character from palm leaves Manuscripts	√	√	✓	√	√	✓	√	✓	✓	√	√	√	✓	✓
5.	Segmentation, feature extraction & classification of brain tumour through MRI Images	√	✓	✓	✓	√	√	√	✓	✓	√	√	√	✓	✓
6.	Deep sea fisherman patrol system using Arduino	✓	✓	✓	✓	\	✓	✓	✓	✓	\	>	>	✓	✓
7.	Implementation of Efficient Vending Machine	✓	✓	✓	√	✓	✓	✓	✓	✓	√	√	√	✓	✓

8.	Environment based irrigation system using wireless technologies	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	✓
9.	Library automation using RFID Tag	✓	✓	✓	✓	✓	✓	√	√	✓	✓	✓	✓	√	✓
10.	Blood Vessel Segmentation using image Processing Technique	√	√	√	✓	√	√	√	✓	√	✓	✓	√	√	✓
11.	Garbage collection and classification Robot Using YOLO Architecture	√	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	\	✓
12.	Advance fire detection in Video using Image Processing	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	✓
13.	Smart notice board using raspberry pi and node-red	√	✓	✓	✓	√	√	✓	✓	√	✓	✓	√	√	✓
14.	Density based smart lighting system using IOT.	√	√	✓	✓	✓	√	√	✓	✓	✓	✓	√	✓	✓
15.	Adaptive equalization of Lorentz system &its application in cryptography	√	✓	✓	√	√	√	✓	✓	√	√	√	√	√	✓
16.	Face recognition using deep learning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	√	✓
17.	Digital image enhancement using SVD-DWT techniques.	√	√	✓	✓	√	√	✓	✓	√	✓	✓	√	√	✓

18.	Hyperspectral image classification using svm	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓
19.	Image enhancement of micro structural images.	✓	✓	√	✓	√	✓	✓	✓	✓	✓	✓	✓	√	✓
20.	Extraction of human features from closed circuit television video footage for investigation	√	✓	✓	✓	√	√	√	✓	√	√	√	√	√	✓
21.	IOT and finger print based patient report	✓	✓	√	✓	√	√	√	√	√	√	✓	√	✓	✓
22.	Auto irrigation system using soil moisture sensor	✓	√	✓	✓	√	√	√	✓	√	√	✓	√	√	✓
23.	Women's safety device using GSM & GPS and shock generation circuit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	√	√	✓
24.	Camera stabilization over vertical axis using laser as reference point	√	✓	√	✓	✓	✓	✓	✓	✓	✓	√	✓	√	✓
25.	ATM transaction using fingerprint recognition and aadhar card	✓	✓	✓	✓	√	√	√	✓	√	√	✓	√	√	✓
26.	Implementation of analytics for APIS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓
27.	Fire fighting robot	√	✓	√	√	√	√	√	✓	√	√	√	√	✓	✓
28.	Removal of noise in ECG signal	√	√	√	√	√	√	✓	√	✓	√	√	√	✓	✓

29.	A novel paradigm of blind indoor														
	navigation system using Li-Fi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	technology														
30.	Data acquisition system for	√	√	√	/	√									
	environmental monitoring	·					·			·			,	·	
31.	Estimating power releases from corona	√	\	√											
	discharges using dip technique	·					·			·			·	·	•
32.	Smart vehicle tracking & monitoring	√													
	system using arm														-
33.	Image enhancement using PSO for	✓	√	✓	√	√									
	video based image analysis														
34.	Automatic detection of entry in to a	√													
	restricted area using IOT														
35.	CNC writing machine using Arduino	✓	√	✓	✓	✓	✓	√	✓	✓	✓	✓	\	\	✓
36.	Automatic speed control according to														
	speed limits and GPS tracking for	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓
	accidental monitoring of vehicle														
37.	Android based robotic control for	√													
	surveillance application														
38.	Design and implementation of smart	√	✓	√	√	√	✓	√	✓						
	energy meter using IOT.														
39.	Reliable data collection using WSN on	√	✓	√	✓	√	√	✓	✓	√	✓	✓	✓	✓	✓
	maps														

CAY m1 (2016-2017).

Project	Project Title	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
No		0	0	0	0	0	0	0	0	0	0	0	0	S	S
		1	2	3	4	5	6	7	8	9	10	11	12	0	0
														1	2
1.	Microcontroller based device to														
	detect vital signs using microwave	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	\checkmark
	signals														
2.	Development of patch antenna for	√	√												
	RFID for smart library management	•	•	•	•	•	•	Ţ	•		•	•	,	•	•
3.	Recognition of handwritten tamil	√	√												
	characters in palm leaf manuscripts	•		•	•	•	•	,	,	,	•	•	,	•	•
4.	DLC of defects in fabrics	√	√	✓	√	√	√	√	✓	√	√	√	√	✓	✓
5.	Energy efficient IM-leach protocol	√	√												
	for wireless sensor network	•			,	•	,	,	•		•	•		•	•
6.	Implementation of SOPC based on	√	√												
	audio application using de2 board	•		•	•	•	•	,	,	,	•	•	,	•	•
7.	Railway signal automation using	√	√												
	wireless communication	•			,	•	,	,	•		•	•		•	•
8.	Automatic accident control and	√	√												
	announcement system	•		•	•	•	•	,	,	,	•	•	,	•	•
9.	Automatic attendance system by	√	√												
	visual programming language	•	•	•	•	•	•	•	•	•	•	•	ľ	•	•

10.	Fault detection in PCB using image processing	✓	✓	✓	√	√	✓								
11.	Smart traffic control system with emergency vehicle using IOT	√	√	✓	✓	✓	✓	√	✓	✓	✓	√	√	✓	✓
12.	Automatic bus ticket management system	√	✓	✓	✓	√	√	✓	✓	√	√	√	√	✓	✓
13.	Blood vessel segmentation of fundus images using morphological operation	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	√	✓
14.	Identification of tumors in lungs	√													
15.	IOT based power theft monitoring system	√	√	✓	√	✓	✓	√	✓	√	✓	√	√	√	✓
16.	Identification of car using voice recognition system	√	✓	✓	✓	√	√	✓	✓	✓	√	✓	√	√	✓
17.	Soil nutrient analysing and monitoring using zigbee network	√	√	✓	√	✓	✓	√	✓	✓	√	√	√	√	✓
18.	Abnormality and severity detection of brain tumours in MR images	√	√	✓	✓	✓	✓	√	✓	✓	√	√	√	√	✓
19.	Early detection of glaucoma using thresholding technique	√	✓	✓	√	✓	✓	✓	✓	✓	√	√	√	✓	✓
20.	Virtual mouse using hand gestures and colour detection	✓	✓	✓	√	✓	√	√							

21.	Analysis and prediction of the freezing of gait using EEG	√	✓	√	√	√	✓								
22.	Adaptive speed governor	√	√	√	√	✓	✓	✓	√	✓	✓	√	√	√	✓
23.	Obesity reduction using smart shoe	√													
24.	Development of animal detection algorithm for advanced driver assistant system	√	✓	✓	✓	✓	✓	✓	√	✓	✓	√	√	✓	✓
25.	Denoising of degraded ancient documents using modified decision based unsymmetric trimmed median filter	√	✓	✓	✓	✓	✓	✓	√	✓	✓	√	✓	✓	✓
26.	Gray level rectangular patterned co- occurrence matrix for texture identification	√	✓	✓	✓	✓	✓	✓	√	✓	✓	√	√	✓	✓
27.	Design of low-power reconfigurable CSA and RCA by using HBFA	√	✓	✓	✓	√	√	√	✓	√	✓	√	√	√	√
28.	Mobile robot localization using phase of passive uhf RFID signal	√	√	✓	√	√	√	√	✓	√	√	√	√	√	√
29.	Li-Fi technology on vehicle application	√	✓	✓	√	√	√	√	✓	√	√	√	√	√	✓
30.	Wireless e-notice board Using IOT	√	√	✓	√	√	√	√	✓	√	√	√	√	√	✓
31.	Intelligent autonomous ironing	✓	✓	√	√	✓	✓	✓	√	√	√	√	√	√	✓

	machine using PIC microcontroller														
32.	Charging of mobile phone by heat using see beck effect	✓	✓	√	√	✓	√	✓	√	√	√	√	√	✓	√
33.	A low power broad-bandwidth noise cancellation VLSI circuit design for in-ear headphones	√	√	√	✓	√	✓								
34.	Milk monitoring system for early detection of microbial activity	✓	√	√	√	✓	√								
35.	Real time tracking and soldiers monitoring system using raspberry-pi	✓	√	√	✓	√									
36.	Arabic text to voice conversion using image processing	✓	√	√	✓	√	✓								
37.	Arduino based industrial safety equipment using wireless technology	✓	√	✓	√	√	√	√	✓	√	√	√	✓	√	✓
38.	Animal health monitoring system using GSM and GPS	✓	✓	√	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39.	Water quality measurement and theft Detection and control	✓	✓	√	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	√

CAY m2 (2015-16)

		Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Project	Droinet Title	0	О	О	0	0	0	0	О	0	О	0	0	S	S
No	Project Title	1	2	3	4	5	6	7	8	9	10	11	12	Ο	О
														1	2
1.	Eco-friendly air-conditioner	√	✓	✓	√	✓	✓	✓	✓	√	✓	√	√	✓	√
2.	Automated coach for sports														
	using multiple moving object	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	tracking and analysis														
3.	Improving the performance of														
	transform based super resolution	√	√												
	using pre and post filtering			·		,			·			Ť	,	·	
	techniques														
4.	Load balancing of mobile ad hoc														
	network using ant-colony	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	algorithm														
5.	Energy efficiency clustering														
	protocol for wireless sensor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	network														
6.	Energy efficiency clustering														
	protocol for wireless sensor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓
	network														

				1			1	1	1		1			1	
7.	Modeling of strain compensated	✓	/	✓	√	1	✓	✓	✓	✓	√	√	√	√	1
	quantum dot solar cells		,	,	'				,	'		'	,	,	
8.	Design of BCD to seven-														
0.		√	\ \ \	√	 	√	√			 			√	√	
	segment code converter using	V	V	\ \ \	V	V	V	√	✓	V	✓	√	V	V	✓
	quantum dot cellular automata														
9.	Prescription drug abuse control					_							_	_	
	system	✓	✓	√	✓	✓	✓	√	√	✓	✓	✓	✓	✓	✓
10.	Medical system for rural areas	√	/	✓	√	√	✓	✓	✓	✓	√	✓	✓	✓	✓
	•	ľ	<u> </u>	ľ	ľ	ľ	,	,	<u> </u>	, v	ľ	ľ	ľ	,	Ľ
11.	Automated door locking	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	√	✓	√
	system for class rooms														
12.	Performance analysis of log														
	periodic antenna for celestial	✓	/	✓	/	√	✓	✓	✓	✓	✓	✓	√	✓	√
	applications														
13.	Diagnosis of diabetic														
	retinopathy using GLCM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	features														
4.4		√	✓	✓	✓	√	√	√	✓	✓	√	✓	√	√	✓
14.	Virtual dress up system	v	v	v	v	V	v	v	v	v	v	v	V	v	v
15.	Wireless wearable personal	✓	/	√	✓	√	✓	✓	✓	✓	✓	✓	√	✓	✓
	protection device														
16.	Smart and intelligent														
	auditorium	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17.	VLT percentage detector for car	✓													
	windows														
18.	Glaucoma detection	√	√	✓	√										

19.	Industrial automation using IOT	√													
20.	Energy efficient CMAC protocol	√	√	✓	√										
21.	Pothole detector	√	√	✓	√										
22.	Encoding and decoding techniques for digital watermarking	√	✓	✓	✓	✓	✓	√	√	√	✓	✓	√	✓	✓
23.	Autonomous unmanned aerial vehicle	✓	√	√	✓	✓	✓	√	✓	✓	✓	✓	√	√	√
24.	Interfacing mobile application with vehicle	√	√	√	√	√	✓	✓	√	√	√	✓	✓	✓	√
25.	A contrast improved colour to greyscale conversion using least square methods	√	✓	✓	✓	✓	✓	√	√	√	✓	✓	✓	✓	√
26.	Certain investigations on evaluating the performance of adaptive document image binarization technique	√	√	✓	√										
27.	Classification and detection of melanoma	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	√	√	√
28.	Pedestrian detection using imaging technique for ADAS and security applications	√	✓	✓	✓	√	✓								
29.	EEG-based mobile robot control through an adaptive brain robot	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

	interface														
30.	Biometric security system for two wheelers	√	✓	√	✓	√	✓								
31.	Online network enabled industry pollution monitoring and control system	✓	√	✓	✓	✓	✓	✓	√	✓	√	✓	✓	✓	✓
32.	Aiding readers of library	√	√	√	✓	√	√	√	✓	√	√	√	√	√	√
33.	Forest fire control system	√	✓	√	√	√	√	√	✓	√	√	√	√	√	√
34.	Integrated system for safe transportation of children to school	√	√	✓	✓	√	√	√	✓	√	√	√	√	✓	√
35.	Drowsiness detection and accident control system in vehicles	√	√	✓	✓	✓	√	√	✓	✓	√	✓	✓	✓	√
36.	Character recognition from document images	✓	✓	√	✓	√									
37.	Text segmentation from the image document	√	✓	√											
38.	An interactive cane for visually impaired	✓	√	√	√	√	✓	✓	✓	√	✓	✓	✓	√	✓
39.	Detection and measurement module implementation for nuclear radiation	√	√	✓	√	✓	√	√	√	✓	√	✓	✓	✓	√
40.	Energy efficiency in wireless	√	✓	√	√	√	√	√	✓	√	✓	√	✓	√	√

	sensor networks using MEMS														
41.	An intelligent target localization in wireless sensor networks	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	√	✓
42.	Photo sensitive and vibration sensor security system with random password change by using GSM modem	√	✓	✓	✓	√	✓								
43.	Novel FPGA implementation of hand sign recognition system with som-hebb classifier		√	✓	√	√	√	√	✓	√	√	√	√	√	/

ANNEXURE 2.2.5

Details of Students' training

Academic Year: 2017-2018

Name of stude	nt	Year & sec	Topic /Area	Company Name	Company Sector & Incorporatio n Status	Date From Date To	No Of Student s
 G.Pala B.Math N.Mura Krishna M.Moh d Musta 	aurshan ali an amme	IV	Arduino	Exor Robotics Private limited	Engineering Private	12.7.2017 to 14.7.2017	6
5. S.K.Kir Pranav 6. S.Guru Naraya	,						
1. Nadhiy hi S 2. Roshin 3. Obulak O 4. Ramya 5. Nivetha 6. Pravee 7. Ragul I 8. Pranav M 9. Nandha Kumar 10. Nithin S A 11. Pravee	i S shmi J a A ena T M Jothi a P Samuel	III	Funda mentals of Teleco mmunic ations	BSNL,Salem	Telecom Government	27.11.2017 to 1.12.2017	12

12. Prabhakaran						
L						
1. Nadhiyasrinit hi S 2. Pharkavi M 3. Monisha A 4. Naveena P 5. Ramya J 6. Praveena T 7. Ragul M 8. Pranav Jothi M 9. Nandha Kumar P 10. Priyadharshin i G 11. Muthunaraya nan S 12. Prabhakaran L 13. N.Mukunth 14. J.Sai pradeep 15. G.Saravanan 16. T.Murli kumar 17. M.Rajkumar	III	Raspbe rry Pi	Enthu Technologies, Coimbatore	Private Engineering	26.12.2017 to 30.12.2017	17
1.Raunak	III	Making of watche s and case assemb ly unit	TITAN Hosur	Private Manufacturin g	15.5.2017 to 20.5.2017	1
1.Praveena T 2.Priyadharshini G	III	Manufa cturing	TANMAG, Salem	Government Mining	20.06.2017 to	2

		of magne sites			22.06.2017	
 Pranav Jothi M Ashwanth K Hari Krishna G R Dinesh B Anantha Murugan .S Amzed Basha A Deva Prakash K Ashwathi N Deepika S Annapoorani S Amritha D 	III	PCB Designi ng ,circuit creatio n, trouble shootin g & product manufa cturing	Sunshive Electronic Solutions, Coimbatore	Private Engineering	27.11.2017 to 29.11.2017	11
1.Roshini.S	111	y safety Awaren ess & PCB	VISTEON Electronics,Ch ennai	Private Engineering	29.05.2017 to 2.6.2017	1
1.Muthunarayana n S	III	Funda mentals of Teleco mmunic ations	BSNL,Trichy	Telecom Government	27.11.2017 to 1.12.2017	1
1.Raj Thilak	III	Progra mming	NI LabVIEW CLAD	Private Engineering	4.12.2017 to	1

		using LAbVIE W	Certification		22.12.2017	
1. Dharshini V 2. Saranya R 3. Sumathi L	II	Embed ded System s	UNIQ Technologies	Engineering Private	27.12.17 to 29.12.17	3
 A.Kavin P.N.Keerthi P. Indhumathi G.Gowtham Venkatesh S.P.Keerthana G.Madhumita V.Mohan Vel M.Hariharasud han A.Imtheyasbas ha D.Kishore J.Harish Kumar G.V.Kiran Aditya 	III	IPv6	Bharat Sanchar Nigam Limited, RGMTTC, Chennai	Telecom Government	22.1.2018 to 24.1.2018	12
 Udhayanithi T Gowtham U Surya V Viknesh S R Shanmugavel M Vikram S Vignesh N Surendar G Siddhu J Venkatesh M Saran Kumar S V Vijay K Siva Kumar M Yuvaraj Kumar K 	III	Teleco m	Bharat Sanchar Nigam Limited, RGMTTC, Chennai	Telecom Government	26.2.2018 to 5.3.2018	14

Academic Year: 2016 – 2017

Name of the student	Year & sec	Topic /Area	Company Name	Company Sector & Incorporatio n Status	Date From Date To	No Of Stud ents
1.P.N.Keerthi	П	Fundam	BSNL, Hosur	Telecom	23.05.2017	1
		entals of		Government	to	
		Telecom			27.05.2017	
		municati				
		ons				
2.N.Kesavan	II	PCB	Sona continuing	Engineering	05.06.2017	1
		design	education	Private	to	
		and	training centre,		10.06.2017	
		Fabricati	Sona college of			
		on	Technology,			
			Salem			
1. M.Mohamme	II		UNIQ	Engineering	16.05.2017	13
d Muhil			Technologies,	Private	to	
2. P.Suguna			Chennai		20.05.2017	
3. U.Gowtham					20.05.2017	
4. N.Vignesh					to	
5. P.Suguna					25.5.2017	
6. U.Gowtham					01.06.2017	
7. N.Vignesh					to	
8. K.S.Shrin					5.6.2017	
Shahana					29.05.2017	1
9. B.Shruthi					to	
10. S.Sowmiya					3.7.2017	
11. Rajthilak S						
1. A.Sowmyava	II	Fundam	Bharat Sanchar	Telecom	15.05.2017	1
rshine		entals of	Nigam Limited	Government	to	

		Telecom			20.5.2017	
					20.5.2017	
		municati				
		ons				
1.V.S.Sowmiya	II	Centrali	SAIL,Salem	Basic Metal	07.06.2017	1
		zed		and	to	
		Electrica		Steel	9-6-2017	
		I		Public		
		Mainten		,central		
		ance				
1.S.Sowmiya	П	Centrali	SAIL,Salem	Basic Metal	20.06.2017	1
		zed		and	to	
		Electrica		Steel	23.6.2017	
		1		Public		
		Mainten		,central		
		ance				
1. V.Suchithra	III	Fundam	BSNL, Chennai	Telecom	29.5.2017	3
2. Sowmhiyaa		entals of		Government	to	
S		Telecom			2.6.2017	
3. Thaarani M		municati				
		ons				
1.Santhosh	III	Control	Thermal Power	Manufacturin	5.6.2017	2
Kumar R		and	Station Mettur	g	to	
2.Sounder R		instrume		Government	9.6.2017	
		ntation,		Body		
		meter				
		and				
		relay				
		Testing				

Academic Year: 2015-2016

Name of the student	Year & sec	Topic /Area	Company Name	Company Sector & Incorporati on Status	Date From Date To	No Of Stude nts
1.S.Sindhuja	II	Fundame ntals of Telecom municatio ns	BSNL, Salem	Telecom Government	23.05.2015 to 27.05.2015	1
 Karthikeyan M Manikandan .R Haja Kamaludeen Jahangeer Narendran P Jose paul richard gilbert D Vigneswaran. D.A Sri ram .R Upendran.K Vishwanath.G Roshini.M Santhyasri.M Sundareswar an.S Divya bharathi M Divya .S 	III & IV	Developi ng project prototype	Foundation For Innovation And Collaborative Education, (FICE) private limited, Bangalore & M.S. Ramaiah Institute of Technology	Private	27.7.2015 to 31·7. 2015	23
15. Garalapati						

sunodh kumar			
16. Krishna			
kumar.S			
17. Nagendra			
Hari Karthick			
18. P.Neranjene			
19. D.Nethra devi			
20. Pratul			
saurabh			
21. Rahul S			
22. Nishanth M			
23. Ragunath L			

ANNEXURE 3.2.2

Course outcome attainment

2012-16 Batch

S.No	Sub Code	Course Name	Assessed COs	Direct assessment A	Indirect assessment B	Total
			CO1	85.15	88.18	86.07
			CO2	76.56	87.40	79.81
1.	U10GE101R	Technical English –	CO3	85.93	89.50	87.01
			CO4	70.31	87.13	75.36
			CO5	77.34	88.71	80.75
	U10GE102R	Multivariable Calculus and Matrices	CO1	92.18	87.13	90.67
			CO2	78.90	88.71	81.85
2.			CO3	96.87	89.23	94.58
			CO4	82.81	87.40	84.19
			CO5	93.75	89.50	92.48
			CO1	64.06	89.50	71.69
3.	U10GE103R	Engineering Physics	CO2	57.81	90.02	67.48
ა.	OTOGETOSK		CO3	69.53	90.81	75.92
			CO4	63.28	90.55	71.46

			CO5	54.68	90.81	65.53
			CO1	80.4	89.76	83.26
			CO2	85.93	89.50	87.01
4.	U10GE104R	Engineering Chemistry	CO3	82.03	88.97	84.11
			CO4	90.62	87.66	89.74
			CO5	80.46	88.18	82.78
		OGE105R Engineering Graphics	CO1	77.34	89.23	80.91
			CO2	91.40	89.76	90.91
5.	U10GE105R		CO3	81.25	89.50	83.73
			CO4	92.18	89.50	91.38
			CO5	95.31	89.76	93.65
			CO1	75.78	88.97	79.74
			CO2	72.65	89.23	77.63
6.	U10GE106R	Fundamentals Of Computing	CO3	88.28	90.81	89.04
			CO4	84.37	91.33	86.46
			CO5	87.50	91.07	88.57
7.	U10GE107R	Physic and Chemistry Lab-1	CO1	98.42	92.3	96.61

			CO2	98.42	91.60	96.38
			CO3	98.42	90.55	96.06
			CO1	100	88.97	96.69
8.	U10GE108R	Computer Practice Lab	CO2	100	90.02	97.01
			CO3	100	89.23	96.77
			CO1	100	90.81	97.24
9.	9. U10GE109R	Engineering Practice Lab	CO2	100	91.86	97.56
			CO3	100	92.65	97.80
		0GE201R Technical English -	CO1	89.84	82.29	87.57
			CO2	68.75	83.33	73.12
10.	U10GE201R		CO3	75.78	84.11	78.28
			CO4	82.81	83.33	82.96
			CO5	76.56	87.76	79.92
			CO1	72.65	79.68	74.76
11.	U10GE202R	Vector calculus, differential equations and complex analysis	CO2	78.90	80.98	79.53
11.	UTUGEZUZK		CO3	78.90	75.26	77.81
			CO4	84.37	80.72	83.28

			CO5	87.5	78.64	84.84
			CO1	71.87	81.51	74.76
	U10GE203BR	Engineering	CO2	72.65	80.72	75.07
12.		Physics - II	CO3	53.12	82.29	61.87
			CO4	77.34	84.89	79.60
			CO5	60.93	78.64	66.25
	U10GE204BR Engineering Chemistry - II		CO1	81.25	86.19	82.73
		Engineering	CO2	89.84	81.25	87.26
13.		Chemistry - II	CO3	76.56	82.03	78.20
			CO4	70.31	86.19	75.07
			CO5	88.28	76.56	84.76
			CO1	76.56	79.68	77.5
	U10GE205R	Programming in C	CO2	75	82.29	77.18
14.			CO3	71.87	82.03	74.92
			CO4	71.09	86.45	75.70
			CO5	58.59	78.90	64.68
15.	U10GE207R	Basic Electrical and Electronics	CO1	71.09	79.94	73.75

		Engineering	CO2	67.96	81.51	72.03
			CO3	80.46	83.59	81.40
			CO4	79.68	80.20	79.84
			CO5	81.25	80.72	81.09
	U10GE208R		CO1	90.62	87.76	89.76
16.	UTUGEZUOK	Physics and Chemistry Laboratory	CO2	89.84	89.58	89.76
		Laboratory	CO3	92.96	85.67	90.78
		C Programming Laboratory	CO1	91.40	84.11	89.21
17.	U10GE209R		CO2	97.65	88.28	94.84
			CO3	100	87.76	96.32
		Pacia Electrical	CO1	100	86.19	95.85
18.	U10GE211R	and Electronics Engineering	CO2	99.21	87.76	95.78
		Laboratory	CO3	99.21	89.58	96.32
			CO1	50.66	78.070	58.88
19.	U10EC302R	Electronics Circuits-1	CO2	67.76	80.702	71.64
13.	O TOLOGUZN		CO3	78.95	79.605	79.14
			CO4	72.37	82.895	75.53

			CO5	81.58	83.114	82.04
			CO1	69.08	79.167	72.11
			CO2	68.42	82.018	72.50
20.	U10EC303R	Digital Electronics	CO3	64.47	86.404	71.05
			CO4	73.68	84.211	76.84
			CO5	71.71	87.281	76.38
	U10EC304R	Signals and Systems	CO1	60.53	85.307	67.96
			CO2	67.11	78.070	70.39
21.			CO3	63.82	86.842	70.72
			CO4	66.45	80.263	70.59
			CO5	77.63	78.289	77.83
			CO1	58.55	81.140	65.33
			CO2	56.58	87.500	65.86
22.	U10EC305R	Computer Networks	CO3	63.16	86.842	70.26
			CO4	69.08	84.211	73.62
			CO5	65.13	85.965	71.38
23.	U10EE309R	Electrical Engineering	CO1	66.45	78.289	70.00

			CO2	61.18	80.482	66.97
			CO3	61.18	78.070	66.25
			CO4	80.92	79.167	80.39
			CO5	80.26	77.412	79.41
			CO1	55.92	77.851	62.50
			CO2	66.45	77.412	69.74
24.	U10GE301AR	Transforms and Partial Differential Equations	CO3	54.61	80.482	62.37
			CO4	61.18	78.070	66.25
			CO5	58.55	79.167	64.74
			CO1	71.71	87.281	76.38
		Personality and Career Enhancement- I	CO2	79.61	89.254	82.50
25.	U10GE302R		CO3	76.32	89.912	80.39
			CO4	46.71	86.842	58.75
			CO5	65.13	85.965	71.38
			CO1	100.00	88.816	96.64
26.	U10EC306R	Electronics Circuits - I Laboratory	CO2	100.00	89.912	96.97
			CO3	99.34	89.693	96.45

			CO1	98.68	87.061	95.20
27.	U10EC307R	Digital Electronics Laboratory	CO2	100.00	85.526	95.66
			CO3	66.45	88.158	72.96
			CO1	100.00	89.254	96.78
28.	U10EC308R	Computer Networks Laboratory	CO2	100.00	86.842	96.05
			CO3	100.00	86.842	96.05
			CO1	71.90	81.36	74.73
		AR Numerical methods for engineering computation	CO2	72.55	78.73	74.40
29.	U10GE401AR		CO3	62.75	81.14	68.26
			CO4	51.63	80.04	60.16
			CO5	60.78	83.77	67.68
			CO1	54.90	80.48	62.58
			CO2	63.40	82.24	69.05
30.	U10EC402R	Electromagnetic fields	CO3	67.32	82.24	71.80
			CO4	67.32	83.33	72.12
			CO5	63.40	82.68	69.18
31.	U10GE403R	Electronic Circuits -	CO1	76.47	83.33	78.53

			CO2	76.47	81.14	77.87
			CO3	7 0. 17	01.11	77.07
				69.28	83.33	73.50
			CO4	67.97	83.11	72.51
			CO5	73.20	83.99	76.44
			CO1	64.71	82.68	70.10
			CO2	47.71	81.58	57.87
32.	U10GE404R	Linear Integrated Circuits	CO3	71.24	82.46	74.61
			CO4	79.74	82.89	80.68
			CO5	79.74	82.46	80.55
			CO1	42.48	79.61	53.62
			CO2	55.56	81.14	63.23
33.	U10EE408R	Control System	CO3	62.09	82.02	68.07
			CO4	67.32	82.89	71.99
			CO5	77.78	82.02	79.05
		Environmental OGE403R Science and engineering	CO1	56.21	82.02	63.95
34.	U10GE403R		CO2	67.97	82.89	72.45
	Silgillooning	CO3	68.63	80.26	72.12	

			CO4	58.82	80.04	65.19
			CO5			
				65.36	82.68	70.56
			CO1	100.00	84.43	95.33
35.	U10EC405R	Linear Integrated Circuits Lab	CO2	100.00	83.77	95.13
			CO3	100.00	82.46	94.74
	Personality and career		CO1	53.59	82.68	62.32
		CO2	54.90	83.77	63.56	
36.		· ·	CO3	47.06	80.48	57.09
			CO4	54.90	80.92	62.71
			CO5	51.63	83.11	61.08
			CO1	100.00	100	100.00
37.	U10EC406R	Electronic circuit and Simulation Lab	CO2	100.00	83.77	95.13
			CO3	100.00	83.99	95.20
			CO1	98.44	83.33	93.91
38.	U10EC407R	PCB Lab	CO2	100.00	83.33	95.00
			CO3	100.00	81.14	94.34
39.	U10EC502R	Analog Communication	CO1	85.96	89.47	88.42

		System	CO2	88.16	92.76	91.38
			CO3	86.40	92.76	90.86
			CO4	87.50	88.16	87.96
			CO5	87.72	88.16	88.03
			CO1	86.84	76.97	79.93
	40. U10EC503R Digital Signal Processing		CO2	86.18	86.18	86.18
40.			CO3	87.94	93.42	91.78
			CO4	87.72	81.58	83.42
			CO5	89.91	81.58	84.08
			CO1	91.01	75.66	80.26
			CO2	88.38	75.00	79.01
41.	U10EC504R	Transmission Lines and Waveguides	CO3	85.09	75.00	78.03
			CO4	90.13	84.87	86.45
			CO5	87.94	84.87	85.79
			CO1	88.82	67.76	74.08
42.	U10EC505R	Microprocessor and its applications	CO2	89.91	69.74	75.79
			CO3	92.54	73.03	78.88

			CO4	89.69	78.95	82.17
			CO5	87.72	78.95	81.58
			CO1	85.31	72.37	76.25
			CO2	88.60	76.97	80.46
43.	U10EC506R	Measurements and Instrumentations	CO3	90.57	78.95	82.43
			CO4	91.23	92.76	92.30
			CO5	89.04	92.76	91.64
		Probability and BR Random Processes	CO1	87.50	63.82	70.92
			CO2	87.72	63.82	70.99
44.	U10GE501BR		CO3	85.09	62.50	69.28
			CO4	85.31	90.13	88.68
			CO5	86.62	90.13	89.08
			CO1	87.06	100.00	96.12
45.	U10EC508R	Digital Signal Processing Lab	CO2	91.01	100.00	97.30
			CO3	91.23	100.00	97.37
16	1110EC507D	Microprocessor	CO1	87.06	97.37	94.28
46.	U10EC507R	Lab	CO2	90.57	100.00	97.17

			CO3	90.35	100.00	97.11
			CO1	86.18	100.00	95.86
47.	U10EC507R	Measurements and Instrumentations Lab	CO2	84.65	100.00	95.39
			CO3	89.91	100.00	96.97
			CO1	87.28	64.47	71.32
48.	U10EC508R	PACE	CO2	82.24	70.39	73.95
			CO3	85.09	73.03	76.64
		Digital Image Processing	CO1	90.13	81.36	87.50
			CO2	86.18	78.73	83.95
49.	U10EC601R		CO3	76.97	81.14	78.22
			CO4	86.18	80.04	84.34
			CO5	86.18	83.77	85.46
			CO1	71.05	80.48	73.88
			CO2	73.03	82.24	75.79
50.	U10EC602R	2R Digital Communication	CO3	73.68	82.24	76.25
			CO4	59.87	83.33	66.91
			CO5	59.87	82.68	66.71

			CO1	63.82	83.33	69.67
			CO2	65.79	81.14	70.39
51.	U10EC603R	Antenna and Wave Propagation	CO3	71.71	83.33	75.20
			CO4	50.00	83.11	59.93
			CO5	50.00	83.99	60.20
			CO1	72.37	82.68	75.46
			CO2	69.74	81.58	73.29
52.	U10EC604R	C604R VLSI Design	CO3	67.11	82.46	71.71
			CO4	45.39	82.89	56.64
			CO5	45.39	82.46	56.51
			CO1	92.76	79.61	88.82
			CO2	88.16	81.14	86.05
53.	U10EC605R	Micro Controller and RISC Architecture	CO3	84.87	82.02	84.01
			CO4	61.84	82.89	68.16
			CO5	61.84	82.02	67.90
5.1	1110EC606D	Telecommunication and Switching Networks	CO1	65.79	82.02	70.66
J4.	54. U10EC606R		CO2	72.37	82.89	75.52

			CO3	84.87	80.26	83.49
			CO4	51.97	80.04	60.39
			CO5	51.97	82.68	61.19
			CO1	87.50	82.89	86.12
			CO2	78.29	83.77	79.93
55.	U10GE602R	Personality and Career Enhancement-IV	CO3	69.08	81.14	72.70
		CO4	46.71	81.80	57.24	
			CO5	46.71	83.33	57.70
		Communication Laboratory	CO1	96.05	84.43	92.57
56.	U10EC607R		CO2	100.00	83.77	95.13
			CO3	100.00	82.46	94.74
			CO1	100.00	83.99	95.20
57.	U10EC608R	VLSI Laboratory	CO2	99.34	83.77	94.67
			CO3	100.00	83.99	95.20
		Digital Image Processing Laboratory	CO1	99.34	83.33	94.54
58.	U10EC609R		CO2	100.00	83.33	95.00
	Laboratory	CO3	100.00	81.14	94.34	

			CO1	78.12	74.07	76.91
			CO2	75.19	77.78	75.97
59.	U10GE701BR	Professional Ethics and Human Values	CO3	72.21	80.83	74.80
			CO4	74.50	76.69	75.16
			CO5	74.50	77.34	75.35
			CO1	84.87	78.00	82.81
			CO2	80.26	75.82	78.93
60.	U10EC701R	Wireless Networks	CO3	75.66	76.25	75.84
			CO4	64.47	75.82	67.88
			CO5	64.47	77.34	68.33
			CO1	84.21	78.21	82.41
			CO2	84.87	80.61	83.59
61.	U10EC702R	Optical Fiber Communication	CO3	84.21	74.51	81.30
			CO4	78.95	80.61	79.45
			CO5	78.95	81.05	79.58
62.	U10EC703R	Microwave	CO1	67.76	72.55	69.20
02.	O TOLOTOSK	Engineering	CO2	74.34	71.68	73.54

			CO3	82.89	74.73	80.44
			CO4	82.89	76.03	80.84
			CO5	82.89	74.07	80.25
			CO1	65.29	74.59	68.08
			CO2	75.21	73.77	74.78
63.	U10EC912R	Computer Hardware and Interfacing	CO3	86.78	75.68	83.45
		CO4	42.15	77.32	52.70	
			CO5	42.15	78.14	52.95
			CO1	81.40	75.86	79.74
			CO2	83.72	80.46	82.74
64.	U10EC921R	Embedded and Real Time Systems	CO3	89.53	78.93	86.35
			CO4	68.60	80.08	72.05
			CO5	68.60	83.14	72.97
			CO1	100.00	90.41	97.12
65.	U10EC704R	Optical and Microwave Laboratory	CO2	100.00	91.94	97.58
			CO3	96.71	92.81	95.54
66.	U10EC705R	Electronic System Design Laboratory	CO1	99.34	92.81	97.38

			CO2			
				100.00	93.46	98.04
			CO3	100.00	92.59	97.78
			CO1	100.00	93.03	97.91
67.	U10EC706R	Project Work Phase - I	CO2	100.00	93.25	97.97
			CO3	100.00	92.16	97.65
	68. U10EC801R Cellular and Mobile Communication		CO1	76.95	85.96	79.65
		CO2	74.84	84.87	77.85	
68.			CO3	72.64	83.77	75.98
			CO4	75.53	85.96	78.66
			CO5	75.53	87.72	79.19
			CO1	70.81	90.13	76.61
			CO2	74.68	87.06	78.40
69.	U10EC802R	Disaster Management	CO3	78.45	88.38	81.43
			CO4	73.14	90.57	78.37
			CO5	73.14	86.84	77.25
70.	U10EC922R		CO1	73.99	84.87	77.26
70.	O TOEO322R	Satellite Communication	CO2	75.74	82.68	77.82

			CO3	77.37	92.54	81.92
			CO4	79.63	93.64	83.84
			CO5	79.63	94.96	84.23
			CO1	70.12	91.01	76.39
	71. U10EC925R Medical Electronics and Instrumentation	CO2	72.36	91.23	78.02	
71.		and	CO3	74.48	89.25	78.91
			CO4	75.27	91.45	80.13
			CO5	75.27	92.11	80.32
			CO1	93.20	92.54	93.00
72.	U10EC803R	10EC803R Project Work Phase – II	CO2	93.20	92.54	93.00
			CO3	93.20	95.61	93.92

2011-15

S.No	Sub Code	Course Name	Assessed	Direct	Indirect	Total
			COs	assessment	assessment	
	1110051015		201	A	В	
1.	U10GE101R	Technical English -	CO1	71.64	83.08	75.07
		l	CO2	45.52	81.09	56.19
			CO3	69.40	83.58	73.66
			CO4	52.24	84.83	62.01
			CO5	80.60	85.57	82.09
2.	U10GE102R	Multivariable	CO1	90.30	82.84	88.06
		Calculus and	CO2	77.61	83.83	79.48
		Matrices	CO3	64.93	86.07	71.27
			CO4	65.67	84.58	71.34
_			CO5	58.96	85.32	66.87
3.	U10GE103R	Engineering	CO1	84.33	84.83	84.48
		Physics	CO2	81.34	87.06	83.06
			CO3	67.91	86.32	73.43
			CO4	53.73	84.58	62.99
			CO5	67.16	89.05	73.73
4.	U10GE104R	Engineering	CO1	79.10	85.07	80.90
		Chemistry	CO2	90.30	83.08	88.13
			CO3	83.58	81.09	82.84
			CO4	88.06	82.84	86.49
			CO5	76.87	83.83	78.96
5.	U10GE105R	Engineering	CO1	82.84	86.07	83.81
		Graphics	CO2	70.15	84.58	74.48
			CO3	75.37	85.32	78.36
			CO4	64.93	84.83	70.90
			CO5	96.27	85.07	92.91
6.	U10GE106R	Fundamentals Of	CO1	79.85	83.08	80.82
		Computing	CO2	80.60	81.09	80.75
			CO3	76.87	82.84	78.66
			CO4	97.01	83.83	93.06
			CO5	97.01	89.05	94.63
7.	U10GE107R	Physic and	CO1	99.25	85.07	95.00
		Chemistry Lab-1	CO2	99.25	83.08	94.40
			CO3	99.25	81.09	93.81
8.	U10GE108R	Computer Practice	CO1	100.00	86.07	95.82
		Lab	CO2	100.00	89.55	96.87
			CO3	100.00	86.82	96.04
9.	U10GE109R	Engineering	CO1	100.00	88.06	96.42
		Practice Lab	CO2	100.00	87.31	96.19
			CO3	100.00	86.07	95.82
10.	U10GE201R				81.59	76.72
		II Š				65.82
			CO3	50.00	79.35	58.81

			CO4	51.49	82.84	60.90
			CO5	71.64	80.35	74.25
11.	U10GE202R	Vector calculus,	CO1	66.42	82.59	71.27
	010022021X	differential	CO2	71.64	81.84	74.70
		equations and	CO3	56.72	79.60	63.58
		complex analysis	CO4	78.36	78.86	78.51
		,	CO5	71.64	81.84	74.70
12.	U10GE203BR	Engineering	CO1	70.15	80.10	73.13
	0.002202.1	Physics - II	CO2	63.43	82.09	69.03
			CO3	52.24	82.84	61.42
			CO4	54.48	81.59	62.61
			CO5	49.25	81.09	58.80
					01.00	00.00
13.	U10GE204BR	Engineering	CO1	83.58	84.08	83.73
		Chemistry - II	CO2	91.04	83.83	88.88
			CO3	88.81	82.34	86.87
			CO4	76.12	79.10	77.01
			CO5	78.36	80.60	79.03
14.	U10GE205R	Programming in C	CO1	67.16	85.32	72.61
		0 0	CO2	70.90	82.09	74.25
			CO3	61.94	81.59	67.84
			CO4	67.91	79.35	71.34
			CO5	56.72	80.35	63.81
15.	U10GE207R	Basic Electrical	CO1	55.22	83.08	63.58
		and Electronics	CO2	52.24	82.09	61.19
		Engineering	CO3	50.75	81.09	59.85
			CO4	61.19	81.09	67.16
			CO5	70.14	81.09	73.43
16.	U10GE208R	Physics and	CO1	99.25	85.32	95.07
		Chemistry	CO2	88.06	84.58	87.01
		Laboratory	CO3	79.10	85.82	81.12
17.	U10GE209R	C Programming	CO1	100.0	85.07	95.52
		Laboratory	CO2	97.76	83.33	93.43
		•	CO3	95.52	82.09	91.49
18.	U10GE211R	Basic Electrical	CO1	100.0	84.33	95.30
		and Electronics	CO2	100.0	82.34	94.70
		Engineering	CO3	97.01	83.83	93.06
19.		Laboratory	CO4	79.10	85.82	81.12
20.			CO5	67.91	79.35	71.34
21.		Electronics	CO1	62.42	77.64	66.99
	U10EC302R	Circuits-1	CO2	57.96	79.75	64.50
			CO3	45.86	78.69	55.71
			CO4	33.12	78.06	46.60
			CO5	49.04	79.54	58.19
22.	U10EC303R	Digital Electronics	CO1	77.71	81.86	78.95

			CO2	71.34	80.38	74.05
			CO3	89.17	80.80	86.66
			CO4	64.97	79.54	69.34
			CO5	64.97	81.43	69.91
23.	U10EC304R	Signals and	CO1	59.24	79.11	65.20
		Systems	CO2	75.16	81.22	76.98
		·	CO3	64.33	80.59	69.21
			CO4	61.78	79.96	67.24
			CO5	68.15	78.06	71.12
24.	U10EC305R	Computer	CO1	51.59	81.43	60.55
		Networks	CO2	50.32	81.43	59.65
			CO3	54.78	81.86	62.90
			CO4	53.50	80.80	61.69
			CO5	57.32	80.59	64.30
25.	U10EE309R	Electrical	CO1	80.25	78.27	79.66
		Engineering	CO2	85.35	78.06	83.16
			CO3	85.99	77.64	83.48
			CO4	92.99	78.48	88.64
	_		CO5	90.45	79.75	87.24
26.	U10GE301AR	Transforms and	CO1	73.25	76.79	74.31
		Partial Differential	CO2	82.80	78.06	81.38
		Equations	CO3	84.71	78.90	82.97
			CO4	78.34	79.11	78.57
	111005000	5 "	CO5	78.98	79.96	79.27
27.	U10GE302R	Personality and	CO1	96.18	83.33	92.32
		Career	CO2	94.27	83.12	90.92
		Enhancement- I	CO3	94.27	81.01	90.29
			CO4	95.54	83.54	91.94
20	LIAOECOOCD	Clastranias Circuita	CO5	97.45	82.07	92.84
28.	U10EC306R	Electronics Circuits	CO1	98.73	84.60	94.49
		- I Laboratory	CO2 CO3	98.73 99.36	85.65 85.86	94.80
29.	U10EC307R	Digital Electronics	CO1	98.09	85.65	94.36
29.	U TOECSO/K	Laboratory	CO2	100.00	87.13	96.14
		Laboratory	CO3	98.09	88.82	95.31
30.	U10EC308R	Computer	CO1	99.36	87.13	95.69
30.	010203001	Networks	CO2	99.36	89.03	96.26
		Laboratory	CO3	99.36	89.66	96.45
31.	U10GE401AR	Numerical methods	CO1	76.43	78.3	76.98
0	31002101711	for engineering	CO2	81.53	75.7	79.79
		computation	CO3	70.70	78.1	72.91
		1 3.33	CO4	75.16	77.0	75.71
			CO5	75.16	80.6	76.79
32.	U10EC402R	Electromagnetic	CO1	57.96	77.4	63.80
		fields	CO2	79.62	79.1	79.47
			CO3	71.97	79.1	74.12
			CO4	84.08	80.2	82.90
			CO5	88.54	79.5	85.84
33.	U10GE403R	Electronic Circuits -	CO1	79.62	80.2	79.78

			000	04.50	70.4	00.40
		II	CO2	81.53	78.1	80.49
			CO3	82.80	80.2	82.01
			CO4	82.17	80.0	81.50
0.4	1140054045		CO5	82.17	80.8	81.76
34.	U10GE404R	Linear Integrated	CO1	81.53	79.5	80.93
		Circuits	CO2	82.80	78.5	81.51
			CO3	84.71	79.3	83.10
			CO4	89.17	79.7	86.34
0.5	1140554000	0 1 10 1	CO5	80.89	79.3	80.42
35.	U10EE408R	Control System	CO1	50.96	76.6	58.64
			CO2	56.05	78.1	62.65
			CO3	58.60	78.9	64.69
			CO4	45.22	79.7	55.58
	1140054005	F ' ()	CO5	78.34	78.9	78.51
36.	U10GE403R	Environmental	CO1	85.35	78.9	83.42
		Science and	CO2	77.07	79.7	77.87
		engineering	CO3	82.17	77.2	80.68
			CO4	82.17	77.0	80.62
	1110501050		CO5	77.07	79.5	77.81
37.	U10EC405R	Linear Integrated	CO1	97.45	79.7	92.14
		Circuits Lab	CO2	100.00	80.6	94.18
	1140054000	5	CO3	100.00	78.1	93.42
38.	U10GE402R	Personality and	CO1	100.00	81.2	94.37
		career	CO2	77.71	80.6	78.57
		enhancement - II	CO3	77.71	80.0	78.39
			CO4	81.53	85.0	82.57
	1140504000	E	CO5	80.89	79.3	80.42
39.	U10EC406R	Electronic circuit	CO1	87.50	80.8	85.49
		and Simulation Lab	CO2	86.05	80.6	84.41
4.0	1140504070	DOD 1 1	CO3	87.50	80.8	85.49
40.	U10EC407R	PCB Lab	CO1	96.20	80.2	91.39
			CO2	98.73	80.2	93.16
4.4	LIANEOFOOD	Δ Ι	CO3	98.73	78.1	92.53
41.	U10EC502R	Analog	CO1	71.97	83.01	75.29
		Communication	CO2	85.99	83.44	85.22
		System	CO3	82.17	82.17	82.17
			CO4	80.25	78.34	79.68
40	LIANEOFOOD	Divital Oissaul	CO5	78.34	80.25	78.92
42.	U10EC503R	Digital Signal	CO1	75.16	73.25	74.59
		Processing	CO2	92.99	72.40	86.82
			CO3	82.17	70.91	78.79
			CO4	92.99	70.06	86.11
46	1140505045	Tuenensissis	CO5	93.63	70.06	86.56
43.	U10EC504R	Transmission Lines	CO1	71.34	74.73	72.36
		and Waveguides	CO2	84.08	73.67	80.96
			CO3	77.71	72.40	76.11
			CO4	80.25	71.97	77.77
	1110=0====		CO5	75.80	70.06	74.08
44.	U10EC505R	Microprocessor	CO1	74.52	81.95	76.75

			CO2	84.71	79.62	83.18
			CO3	94.90	81.74	90.96
			CO4	89.81	83.23	87.83
			CO5	93.63	82.38	90.25
45.	U10EC506R	Measurements and	CO1	74.52	81.95	76.75
		Instrumentations	CO2	84.71	80.47	83.44
			CO3	94.90	80.47	90.57
			CO4	89.81	82.80	87.71
			CO5	93.63	83.44	90.57
46.	U10GE501BR	Probability and	CO1	54.78	66.67	58.34
		Random	CO2	73.89	68.58	72.29
		Processes	CO3	76.43	68.58	74.08
			CO4	63.69	67.09	64.71
			CO5	57.96	67.52	60.83
47.	U10EC508R	Digital Signal	CO1	99.36	78.56	93.12
		Processing Lab	CO2	100.0	80.68	94.20
			CO3	100.0	80.68	94.20
48.	U10EC507R	Microprocessor	CO1	100.0	81.10	94.33
		Lab	CO2	100.0	81.10	94.33
			CO3	100.0	81.53	94.46
49.	U10EC507R	M & I Lab	CO1	100.0	87.47	96.24
			CO2	100.0	87.90	96.37
			CO3	100.0	87.69	96.31
50.	U10EC508R	PACE	CO1	90.00	82.80	87.84
			CO2	90.50	84.08	88.57
			CO3	90.60	83.23	88.39
51.	U10EC601R	Digital Image	CO1	84.71	81.95	83.89
		Processing	CO2	76.43	79.41	77.32
			CO3	85.35	81.74	84.27
			CO4	93.63	80.68	89.75
	_		CO5	98.09	84.29	93.95
52.	U10EC602R	Digital	CO1	53.50	80.25	61.53
		Communication	CO2	85.99	82.59	84.97
			CO3	88.54	82.38	86.69
			CO4	88.54	83.44	87.01
	114050000	A	CO5	85.99	82.17	84.84
53.	U10EC603R	Antenna and Wave	CO1	75.16	83.44	77.64
		Propagation	CO2	62.42	79.41	67.52
			CO3	77.07	81.74	78.47
			CO4	73.89	80.68	75.92
E A	LIAOECCOAD	VI CI Doniem	CO5	77.71	82.38	79.11
54.	U10EC604R	VLSI Design	CO1	64.97	82.38	70.19
			CO2 CO3	75.80	81.32	77.45
			CO4	81.53	82.17	81.72
				84.08 94.27	82.80	83.69
55.	U10EC605R	Micro Controller	CO5 CO1	70.06	81.95 79.62	90.57
55.	O TOECOUSK	and RISC	CO2	67.52	83.44	72.93
		Architecture	CO2	71.34		72.29
		Aidillecture	003	11.34	80.25	74.01

			CO4	82.17	81.74	82.04
			CO5	73.25	83.65	76.37
56.	U10EC606R	Telecommunication	CO1	75.16	82.59	77.39
		and Switching	CO2	79.62	83.44	80.76
		Networks	CO3	89.17	80.89	86.69
			CO4	76.43	80.68	77.71
			CO5	71.97	83.23	75.35
57.	U10GE602R	Personality and	CO1	97.45	83.44	93.25
		Career	CO2	82.80	81.95	82.55
		Enhancement-IV	CO3	90.45	83.23	88.28
			CO4	50.32	82.80	60.06
			CO5	59.24	83.86	66.62
58.	U10EC607R	Communication	CO1	98.73	83.86	94.27
		Laboratory	CO2	100.0	81.10	94.33
			CO3	100.0	83.01	94.90
59.	U10EC608R	VLSI Laboratory	CO1	100.0	84.50	95.35
			CO2	100.0	84.29	95.29
			CO3	100.0	84.50	95.35
60.	U10EC609R	Digital Image	CO1	100.0	83.86	95.16
		Processing	CO2	100.0	83.86	95.16
		Laboratory	CO3	100.0	81.74	94.52
61.	U10GE701BR	Professional Ethics	CO1	87.90	82.59	86.31
		and Human Values	CO2	71.34	81.53	74.39
			CO3	44.59	84.29	56.50
			CO4	68.15	84.93	73.18
	_		CO5	68.15	85.14	73.25
62.	U10EC701R	Wireless Networks	CO1	87.90	84.29	86.82
			CO2	91.72	84.93	89.68
			CO3	90.45	84.29	88.60
			CO4	89.17	84.50	87.77
	1140507000	0 4 15	CO5	89.17	85.56	88.09
63.	U10EC702R	Optical Fiber	CO1	74.52	84.93	77.64
		Communication	CO2	83.44	87.05	84.52
			CO3	87.90	83.23	86.50
			CO4	87.90	85.14	87.07
64.	U10EC703R	Miorovyo	CO5	87.90	84.93	87.01
04.	U IUEC/USK	Microwave	CO1 CO2	69.43 76.43	83.65	73.69
		Engineering	CO3	85.35	84.08	78.73 85.10
		-	CO3	85.99	84.50 85.14	85.73
		•	CO5	85.99	86.84	86.24
65.	U10EC912R	Computer	CO1	59.87	85.56	67.58
03.	0100031210	Hardware and	CO2	63.06	84.08	69.36
		Interfacing	CO3	66.24	85.14	71.91
		intoriaonig	CO4	82.17	81.32	81.91
			CO5	82.17	82.38	82.23
66.	U10EC921R	Embedded and	CO1	67.52	83.44	72.29
00.	0100002110	Real Time Systems	CO2	68.79	85.14	73.69
		Todi Tillo Oysioliis	CO3	73.25	81.10	75.61
L			003	13.23	01.10	75.01

			CO4	91.72	81.74	88.73
			CO5	91.72	82.59	88.98
67.	U10EC704R	Optical and	CO1	100.0	87.05	96.11
		Microwave	CO2	100.0	88.32	96.50
		Laboratory	CO3	100.0	89.60	96.88
68.	U10EC705R	Electronic System	CO1	100.0	89.17	96.75
		Design Laboratory	CO2	99.36	90.45	96.69
			CO3	100.0	89.17	96.75
69.	U10EC706R	Project Work	CO1	100.0	91.93	97.58
		Phase - I	CO2	100.0	89.60	96.88
			CO3	100.0	94.48	98.34
70.	U10EC801R	Cellular and Mobile	CO1	78.98	86.20	81.15
		Communication	CO2	72.61	85.56	76.50
			CO3	72.61	87.26	77.01
			CO4	92.36	87.05	90.76
			CO5	92.36	89.17	91.40
71.	U10EC802R	Disaster	CO1	22.93	90.23	43.12
		Management	CO2	21.66	87.69	41.46
			CO3	26.75	84.50	44.08
			CO4	3.82	89.38	29.49
			CO5	3.82	87.26	28.85
72.	U10EC922R		CO1	82.80	88.11	84.39
		Satellite	CO2	85.35	89.17	86.50
		Communication	CO3	88.54	91.72	89.49
			CO4	75.16	88.96	79.30
	_		CO5	75.16	87.05	78.73
73.	U10EC925R	Medical Electronics	CO1	80.89	85.35	82.23
		and	CO2	88.54	87.47	88.22
		Instrumentation	CO3	89.17	85.77	88.15
			CO4	82.80	86.84	84.01
			CO5	82.80	87.05	84.08
74.	U10EC803R	Project Work	CO1	100.00	86.41	95.92
		Phase – II	CO2	100.00	90.23	97.07
			CO3	100.00	90.45	97.13

ANNEXURE 3.3.2

PO attainment

PO attainment Direct Assessment

2012-16 Batch

COURSE CODE	COURSE TITLE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
U10GE101R	Technical English	0.00	0.00	0.00	0.00	67.82	67.82	67.82	67.82	67.82	67.82	67.82	67.82	67.82	67.82
U10GE102R	Multivariable Calculus And Matrices	88.75	88.75	88.75	88.75	88.75	88.75	0.00	0.00	0.00	0.00	88.75	88.75	88.75	88.75
U10GE103R	Engineering Physics - I	70.41	70.41	70.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.41	70.41	70.41
U10GE104R	Engineering Chemistry - I	85.38	85.38	85.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.38	85.38	85.38
U10GE105R	Engineering Graphics	88.12	0.00	88.12	0.00	88.12	88.12	0.00	0.00	0.00	0.00	88.12	88.12	88.12	88.12
U10GE106R	Fundamentals of Computing	84.29	0.00	84.29	84.29	84.29	84.29	0.00	0.00	84.29	0.00	84.29	84.29	84.29	84.29
U10GE107R	Physics & Chemistry Laboratory - I	96.35	0.00	0.00	0.00	0.00	0.00	96.35	0.00	96.35	0.00	0.00	96.35	96.35	96.35
U10GE108R	Computer Practice Laboratory	96.82	96.82	96.82	96.82	96.82	96.82	0.00	0.00	96.82	0.00	0.00	96.82	96.82	96.82
U10GE109R	Engineering Practices Laboratory	97.53	97.53	97.53	97.53	0.00	0.00	0.00	0.00	97.53	0.00	97.53	97.53	97.53	97.53
U10GE201R	Technical English - II	0.00	0.00	0.00	0.00	80.38	80.38	80.38	80.38	80.38	80.38	80.38	80.38	80.38	80.38
U10GE202R	Vector Calculus, Differential	80.05	80.05	80.05	80.05	80.05	80.05	0.00	0.00	0.00	0.00	80.05	80.05	80.05	80.05

	Equations and														
	complex analysis														
U10GE203BR	Engineering Physics - II	71.52	71.52	71.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.52	71.52	71.52
U10GE204BR	Engineering Chemistry - II	81.61	81.61	81.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.61	81.61	81.61
U10GE205R	Programming in C	74.00	74.00	74.00	74.00	74.00	74.00	0.00	0.00	0.00	0.00	0.00	74.00	74.00	74.00
U10GE207R	Basic Electrical and Electronics Engineering	77.63	77.63	77.63	77.63	0.00	0.00	0.00	0.00	77.63	0.00	77.63	77.63	77.63	77.63
U10GE208R	Physics & Chemistry Laboratory – II	90.10	90.10	90.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.10	90.10	90.10
U10GE209R	C Programming Laboratory	93.46	93.46	93.46	93.46	93.46	93.46	0.00	0.00	93.46	0.00	0.00	93.46	93.46	93.46
U10GE211R	Basic Electrical and Electronics Engineering Laboratory	95.99	95.99	95.99	95.99	0.00	0.00	0.00	0.00	95.99	0.00	95.99	95.99	95.99	95.99
U10GE301AR	Transforms and Partial Differential Equations	65.12	65.12	66.40	65.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.12	65.12	65.12
U10EC302R	Electronic Circuits – I	73.45	73.45	73.45	73.45	73.45	73.45	0.00	0.00	73.45	73.45	73.45	73.45	73.45	73.45
U10EC303R	Digital Electronics	73.78	73.78	73.78	73.78	74.05	73.78	0.00	0.00	0.00	72.30	73.78	73.78	73.78	73.78
U10EC304R	Signals and Systems	71.50	71.50	71.50	71.50	71.50	0.00	0.00	0.00	0.00	0.00	71.50	71.50	71.50	71.50
U10EC305R	Computer Networks	69.29	69.29	69.29	69.29	69.29	69.29	0.00	0.00	0.00	0.00	69.29	69.29	69.29	69.29
U10GE302R	Personality And Career Enhancement- I	0.00	0.00	0.00	79.76	0.00	79.21	0.00	0.00	79.42	2.67	3.00	79.76	79.76	79.76
U10EE309R	Electrical Engineering	72.61	72.37	72.61	72.61	72.61	72.61	72.61	72.61	0.00	72.61	72.61	72.61	72.61	72.61
U10EC306R	Electronic Circuits	96.69	96.69	96.69	96.69	96.69	0.00	0.00	0.00	96.69	0.00	96.69	96.69	96.69	96.69

	- I Laboratory														
U10EC307R	Digital Electronics Laboratory	87.94	87.94	87.94	87.94	87.94	0.00	0.00	0.00	87.94	0.00	87.94	87.94	87.94	87.94
U10EC308R	Computer Networks Laboratory	96.29	96.29	96.29	96.29	96.29	0.00	96.29	0.00	96.29	0.00	0.00	96.29	96.29	96.29
U10GE401AR	Numerical Methods for Engineering Computation	69.05	69.05	69.05	69.05	69.05	69.05	0.00	0.00	0.00	0.00	69.05	69.05	69.05	69.05
U10EC402R	Electromagnetic Field	68.95	68.95	68.95	68.95	68.95	68.95	0.00	0.00	0.00	0.00	68.95	68.95	68.95	68.95
U10EC403R	Electronic Circuits – II	75.77	75.77	75.67	75.77	75.77	75.77	0.00	0.00	0.00	0.00	75.77	75.77	75.77	75.77
U10EC404R	Linear Integrated Circuits	72.76	72.76	72.37	72.76	72.76	72.76	0.00	0.00	0.00	0.00	72.76	72.76	72.76	72.76
U10EE408R	Control Systems	67.19	67.19	68.25	67.19	67.19	67.19	0.00	0.00	0.00	0.00	67.19	67.19	67.19	67.19
U10GE403R	Environmental Science and Engineering	0.00	0.00	68.85	68.85	70.56	68.85	68.85	68.85	68.85	0.00	68.85	68.85	68.85	68.85
U10GE402R	Personality And Career Enhancement- II	0.00	0.00	61.35	0.00	0.00	0.00	0.00	61.35	61.35	61.35	61.35	0.00	61.35	61.35
U10EC405R	Linear Integrated & Circuits Laboratory	95.07	95.07	95.07	95.07	0.00	0.00	0.00	0.00	95.07	95.07	95.07	95.07	95.07	95.07
U10EC406R	Electronic Circuits and Simulation Laboratory	96.78	96.78	96.78	96.78	96.78	0.00	0.00	0.00	96.78	96.78	96.78	96.78	96.78	96.78
U10EC407R	PCB Laboratory	94.42	94.42	94.42	94.42	94.42	0.00	0.00	0.00	94.42	94.42	94.42	94.42	94.42	94.42
U10GE501BR	Probability and Random Process	77.79	77.79	0.00	77.79	0.00	77.79	0.00	0.00	0.00	0.00	77.79	77.79	77.79	77.79
U10EC502R	Analog Communication System	89.33	89.33	89.33	89.39	89.33	89.33	0.00	0.00	0.00	0.00	89.33	89.33	89.33	89.33

U10EC503R	Digital Signal	85.08	85.23	85.73	85.23	85.45	85.08	0.00	0.00	0.00	0.00	85.08	85.08	85.08	85.08
	Processing														
U10EC504R	Transmission Lines and Waveguides	81.91	81.91	81.86	81.91	82.16	81.91	0.00	0.00	0.00	0.00	82.32	81.91	81.91	81.91
U10EC505R	Microprocessor and its Applications	78.50	78.50	78.50	78.50	78.50	78.50	78.50	0.00	0.00	0.00	78.50	78.50	78.50	78.50
U10GE502R	Personality And Career Enhancement- III	0.00	0.00	76.34	0.00	0.00	0.00	0.00	76.34	76.34	76.34	76.34	0.00	76.34	76.34
U10EC506R	Measurements and Instrumentations	84.62	84.62	84.12	84.62	84.62	84.62	84.62	0.00	0.00	0.00	84.62	84.62	84.62	84.62
U10EC507R	Microprocessor Laboratory	96.18	96.18	96.18	96.18	96.18	96.18	0.00	0.00	0.00	96.18	96.18	96.18	96.18	96.18
U10EC508R	Digital Signal Processing Laboratory	96.93	96.93	96.93	96.93	96.93	96.93	0.00	0.00	0.00	96.93	96.93	96.93	96.93	96.93
U10EC509R	Measurements and Instrumentations Laboratory	96.07	96.07	96.07	96.07	96.18	96.07	0.00	0.00	0.00	96.07	96.07	96.07	96.07	96.07
U10EC601R	Digital Image processing	83.89	83.89	83.89	83.89	83.89	0.00	0.00	0.00	0.00	83.88	83.89	83.89	83.89	83.89
U10EC602R	Digital Communication	71.91	71.91	71.46	71.18	71.91	0.00	0.00	0.00	0.00	71.91	71.91	71.91	71.91	71.91
U10EC603R	Antenna and Wave Propagation	67.08	68.24	68.80	68.80	67.08	67.08	0.00	0.00	0.00	67.08	67.08	67.08	67.08	67.08
U10EC604R	VLSI Design	66.72	66.72	66.72	66.72	66.72	66.72	0.00	0.00	0.00	66.72	66.72	66.72	66.72	66.72
U10EC605R	Microcontroller and RISC Architecture	78.99	76.53	78.99	76.53	78.99	78.99	0.00	0.00	0.00	78.99	78.99	78.99	78.99	78.99
U10EC606R	Telecommunicati on and Switching	70.25	68.36	70.25	68.36	70.25	70.25	0.00	0.00	0.00	70.25	70.25	70.25	70.25	70.25

	Networks														
U10GE602R	Personality And Career Enhancement- IV	0.00	0.00	70.74	0.00	0.00	0.00	0.00	70.74	70.74	70.74	70.74	0.00	0.00	70.74
U10EC607R	Communication Laboratory (Analog, Digital and RF)	94.14	94.14	94.14	94.14	94.14	0.00	0.00	0.00	94.14	0.00	94.14	94.14	94.14	94.14
U10EC608R	VLSI Laboratory	95.02	95.02	95.02	95.02	95.02	0.00	0.00	0.00	95.02	0.00	95.02	95.02	95.02	95.02
U10EC609R	Digital Image Processing Laboratory	94.63	94.63	94.63	94.63	94.63	0.00	0.00	0.00	94.63	0.00	94.63	94.63	94.63	94.63
U10GE701BR	Professional Ethics and Human Values	75.44	0.00	0.00	0.00	0.00	75.64	75.64	75.64	75.64	75.64	75.64	75.64	75.64	75.64
U10EC701R	Wireless Networks	74.76	0.00	74.76	0.00	74.76	74.76	0.00	0.00	0.00	0.00	74.76	74.76	74.76	74.76
U10EC702R	Optical Fiber Communication	81.27	80.98	81.15	81.27	80.82	80.98	80.98	0.00	0.00	0.00	81.27	81.27	81.27	81.27
U10EC703R	Microwave Engineering	76.85	76.85	76.85	76.85	76.85	0.00	76.85	0.00	0.00	0.00	76.85	76.85	76.85	76.85
U10EC921R	Elective – I	78.77	78.77	78.77	78.77	78.77	78.77	0.00	0.00	0.00	0.00	78.77	78.77	78.77	78.77
U10EC912R	Elective – II	66.39	66.39	66.39	66.39	66.39	66.39	0.00	0.00	0.00	0.00	66.39	66.39	66.39	3.00
U10EC911R	Internet and Java	0.00	0.00	0.00	0.00	0.00	70.23	70.23	0.00	70.23	70.23	70.23	70.23	70.23	70.23
U10EC704R	Optical and Microwave Laboratory	96.75	96.75	96.75	96.75	95.54	0.00	0.00	0.00	0.00	96.75	96.75	96.75	96.75	96.75
U10EC705R	Electronic System Design Laboratory	97.73	97.73	97.73	97.73	97.73	97.73	0.00	0.00	0.00	0.00	97.73	97.73	97.73	97.73
U10EC706R	Project Work Phase - I	97.84	97.84	97.84	97.84	97.84	97.84	97.84	97.84	97.84	97.84	97.84	97.84	97.84	97.84
U10EC801R	Cellular and Mobile	78.27	76.92	78.17	77.92	78.27	78.27	0.00	0.00	0.00	78.42	78.27	78.27	78.27	78.27

	Communication														
U10EC802R	Disaster	78.41	78.41	0.00	0.00	78.41	78.41	78.41	78.41	78.41	78.41	78.41	78.41	78.41	78.41
	Management														
U10EC922R	Elective – III	81.01	81.01	79.87	79.22	82.00	81.01	0.00	0.00	0.00	81.01	81.01	81.01	81.01	81.01
U10EC925R	Elective IV	78.75	0.00	0.00	0.00	78.75	78.75	0.00	0.00	0.00	78.75	78.75	78.75	78.75	78.75
U10EC803R	Project Work	93.31	93.31	93.31	93.31	93.31	93.31	93.31	93.31	93.31	93.31	93.31	93.31	93.31	93.31
	Phase - II														
	Direct	82.52	83.82	83.57	83.91	81.51	77.17	67.36	70.20	82.39	74.03	78.29	80.31	81.56	80.08
	Assessment														186

2012-16	РО	PSO	PSO											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Direct	82.52	83.82	83.58	83.92	81.51	77.17	67.37	70.21	82.40	74.03	78.29	80.31	81.56	80.08
70% of Direct	57.76	58.67	58.51	58.74	57.06	54.02	47.16	49.15	57.68	51.82	54.80	56.22	57.09	56.06
20% of Exit survey	16.32	16.47	16.35	15.80	16.17	15.68	16.25	16.27	16.64	16.67	16.64	16.37	16.30	16.60
10% of recruiter survey	8.67	8.78	9.26	9.25	9.01	9.13	8.54	8.68	8.89	8.58	9.19	9.26	9.20	9.05
PO Attainment	82.75	83.93	84.12	83.80	82.24	78.83	71.94	74.10	83.21	77.07	80.63	81.84	82.59	81.71

2011-15 Batch

Sub Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS O2
U10GE101R	Technical English - I	0.00	0.00	0.00	0.00	69.80	69.80	69.80	69.80	69.80	69.80	69.80	69.80	69.80	69.8 0
U10GE102R	Multivariable Calculus and Matrices	75.40	75.40	75.40	75.40	75.40	75.40	0.00	0.00	0.00	0.00	75.40	75.40	75.40	75.4 0
U10GE103R	Engineering Physics - I	75.54	75.54	75.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.54	75.54	75.5 4
U10GE104R	Engineering Chemistry - I	83.46	83.46	83.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.46	83.46	83.4 6
U10GE105R	Engineering Graphics	80.09	0.00	80.09	0.00	80.09	80.09	0.00	0.00	0.00	0.00	80.09	80.09	80.09	80.0
U10GE106R	Fundamentals of Computing	85.58	0.00	85.58	85.58	85.58	85.58	0.00	0.00	85.58	0.00	85.58	85.58	85.58	85.5 8
U10GE107R	Physics & Chemistry Laboratory - I	94.40	0.00	0.00	0.00	0.00	0.00	94.40	0.00	94.40	0.00	0.00	94.40	94.40	94.4
U10GE108R	Computer Practice Laboratory	96.24	96.24	96.24	96.24	96.24	96.24	0.00	0.00	96.24	0.00	0.00	96.24	96.24	96.2 4
U10GE109R	Engineering Practices Laboratory	96.14	96.14	96.14	96.14	0.00	0.00	0.00	0.00	96.14	0.00	96.14	96.14	96.14	96.1 4
U10GE201R	Technical English - II	0.00	0.00	0.00	0.00	67.30	67.30	67.30	67.30	67.30	67.30	67.30	67.30	67.30	67.3 0
U10GE202R	Vector Calculus, Differential Equations and complex Analysis	72.55	72.55	72.55	72.55	72.55	72.55	0.00	0.00	0.00	0.00	72.55	72.55	72.55	72.5 5
U10GE203BR	Engineering Physics - II	65.00	65.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00	65.00	65.0 0
U10GE204BR	Engineering Chemistry - II	83.10	83.10	83.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.10	83.10	83.1

U10GE205R	Programming in C	69.97	69.97	69.97	69.97	69.97	69.97	0.00	0.00	69.97	0.00	0.00	69.97	69.97	69.9
U10GE207R	Basic Electrical and Electronics Engineering	65.04	65.04	65.04	65.04	0.00	0.00	0.00	0.00	65.04	0.00	65.04	65.04	65.04	65.0
U10GE208R	Physics & Chemistry Laboratory – II	87.73	87.73	87.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.73	87.73	87.7 3
U10GE209R	C Programming Laboratory	93.48	93.48	93.48	93.48	93.48	93.48	0.00	0.00	93.48	0.00	0.00	93.48	93.48	93.4
U10GE211R	Basic Electrical and Electronics Engineering Laboratory	94.35	94.35	94.35	94.35	0.00	0.00	0.00	0.00	94.35	0.00	94.35	94.35	94.35	94.3
U10GE301AR	Transforms and Partial Differential Equations	79.30	79.30	79.60	79.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.30	79.30	79.3 0
U10EC302R	Electronic Circuits – I	58.40	58.40	58.40	58.40	58.40	58.40	0.00	0.00	58.40	58.40	58.40	58.40	58.40	58.4 0
U10EE309R	Electrical Engineering	84.44	84.00	84.44	84.44	84.44	84.44	84.44	84.44	0.00	84.44	84.44	84.44	84.44	84.4
U10EC303R	Digital Electronics	75.78	75.78	75.78	75.78	74.80	75.78	0.00	0.00	0.00	76.50	75.78	75.78	75.78	75.7 8
U10EC304R	Signals and Systems	69.76	69.76	69.77	69.76	69.10	0.00	0.00	0.00	0.00	0.00	67.93	69.76	69.76	69.7 6
U10EC305R	Computer Networks	61.82	61.82	61.82	61.82	61.82	61.82	0.00	0.00	0.00	0.00	61.82	61.82	61.82	61.8 2
U10GE302R	Personality and Career Enhancement - I	0.00	0.00	0.00	91.66	0.00	91.74	0.00	0.00	91.72	91.66	91.66	91.66	91.66	91.6 6
U10EC306R	Electronic Circuits - I Laboratory	94.87	94.87	94.87	94.87	94.87	0.00	0.00	0.00	94.87	0.00	94.87	94.87	94.87	94.8 7
U10EC307R	Digital Electronics Laboratory	95.27	95.27	95.27	95.27	95.27	0.00	0.00	0.00	95.27	0.00	95.27	95.27	95.27	95.2 7
U10EC308R	Computer Networks Laboratory	96.13	96.13	96.13	96.13	96.13	0.00	96.13	0.00	96.13	0.00	0.00	96.13	96.13	96.1 3

U10GE401AR	Numerical Methods	76.44	76.44	76.44	76.44	76.44	76.44	0.00	0.00	0.00	0.00	76.44	76.44	76.44	76.4
01002101741	Trainionida Motificas			'	'		7 01 1 1	0.00	0.00	0.00	0.00			7 01 1 1	4
U10EC402R	Electromagnetic Field	77.23	77.23	77.23	77.23	77.23	77.23	0.00	0.00	0.00	0.00	77.23	77.23	77.23	77.2
															3
U10EC403R	Electronic Circuits – II	81.11	81.11	81.09	81.11	81.11	81.11	0.00	0.00	0.00	0.00	81.11	81.11	81.11	81.1
															1
U10EC404R	Linear Integrated Circuits	82.46	82.46	82.73	82.46	82.46	82.46	0.00	0.00	0.00	0.00	82.46	82.46	82.46	82.4
U10EE408R	Control System	64.01	64.01	65.28	64.01	64.01	64.01	0.00	0.00	0.00	0.00	64.01	64.01	64.01	64.0
U IUEE4UOR	Control System	64.01	64.01	05.26	64.01	64.01	64.01	0.00	0.00	0.00	0.00	64.01	64.01	64.01	1
U10GE403R	Environmental Science	0.00	0.00	80.08	80.08	77.81	80.08	80.08	80.08	80.08	0.00	80.08	80.08	80.08	80.0
	and Engineering														8
U10GE402R	Personality and Career	0.00	0.00	82.86	0.00	0.00	0.00	0.00	82.86	82.86	82.86	82.86	0.00	82.86	82.8
	Enhancement - II														6
U10EC405R	Linear Integrated &	93.25	93.25	93.25	93.25	0.00	0.00	0.00	0.00	93.25	93.25	93.25	93.25	93.25	93.2
	Circuits Laboratory														5
U10EC406R	Electronic Circuits and	85.13	85.13	85.13	85.13	85.49	0.00	0.00	0.00	85.13	85.13	85.13	85.13	85.13	85.1
1140EC407D	Simulation Laboratory	00.00	00.00	92.36	92.36	92.36	0.00	0.00	0.00	92.36	92.36	92.36	00.00	92.36	92.3
U10EC407R	PCB Laboratory	92.36	92.36	92.36	92.36	92.36	0.00	0.00	0.00	92.36	92.36	92.36	92.36	92.36	92.3
U10GE501BR	Probability and Random	66.05	66.05	0.00	66.05	0.00	66.05	0.00	0.00	0.00	0.00	66.05	66.05	66.05	66.0
O TOOLOOTBIX	Process	00.00	00.00	0.00	00.00	0.00	00.00	0.00	0.00	0.00	0.00	00.00	00.00	00.00	5
U10EC502R	Analog Communication	80.26	80.26	80.26	80.61	80.26	80.26	0.00	0.00	0.00	0.00	80.26	80.26	80.26	80.2
	System														6
U10EC503R	Digital Signal Processing	82.57	81.96	82.61	81.96	83.14	82.57	0.00	0.00	0.00	0.00	82.57	82.57	82.57	82.5
															7
U10EC504R	Transmission Lines and	76.26	76.26	77.09	76.26	76.86	76.26	0.00	0.00	0.00	0.00	77.23	76.26	76.26	76.2
1140505055	Waveguides	05.70	05.70	05.70	05.70	05.70	05.70	05.70	0.00	0.00	0.00	05.70	05.70	05.70	6
U10EC505R	Microprocessor and its	85.79	85.79	85.79	85.79	85.79	85.79	85.79	0.00	0.00	0.00	85.79	85.79	85.79	85.7
U10EC506R	Applications Measurements and	85.81	85.81	85.47	85.81	85.81	85.81	85.81	0.00	0.00	0.00	85.81	85.81	85.81	9 85.8
UTUECOUCK	Measurements and	00.81	05.81	00.47	00.01	00.01	00.01	00.01	0.00	0.00	0.00	00.01	00.01	00.01	00.8

	Instrumentations														1
U10GE502R	Personality and Career Enhancement - III	0.00	0.00	84.92	0.00	0.00	0.00	0.00	84.92	84.92	84.92	84.92	0.00	84.92	84.9
U10EC507R	Microprocessor Laboratory	94.37	94.37	94.37	94.37	94.37	94.37	0.00	0.00	0.00	94.37	94.37	94.37	94.37	94.3 7
U10EC508R	Digital Signal Processing Laboratory	93.84	93.84	93.84	93.84	93.84	93.84	0.00	0.00	0.00	93.84	93.84	93.84	93.84	93.8 4
U10EC509R	Measurements and Instrumentations Lab	96.31	96.31	96.31	96.31	96.34	96.31	0.00	0.00	0.00	96.31	96.31	96.31	96.31	96.3 1
U10EC601R	Digital Image processing	85.84	85.84	85.84	85.84	85.84	0.00	0.00	0.00	0.00	87.97	85.84	85.84	85.84	85.8 4
U10EC602R	Digital Communication	81.01	81.01	82.20	82.95	81.01	0.00	0.00	0.00	0.00	81.01	81.01	81.01	81.01	81.0
U10EC603R	Antenna and Wave Propagation	75.73	74.85	74.89	74.89	75.73	75.73	0.00	0.00	0.00	75.73	75.73	75.73	75.73	75.7 3
U10EC604R	VLSI Design	80.72	80.72	80.72	80.72	80.72	80.72	0.00	0.00	0.00	80.72	80.72	80.72	80.72	80.7
U10EC605R	Micro controller and RISC Architecture	75.53	76.18	75.53	76.18	75.53	75.53	0.00	0.00	0.00	75.53	75.53	75.53	75.53	75.5 3
U10EC606R	Telecommunication and Switching Networks	79.58	79.92	79.58	79.92	79.58	79.58	0.00	0.00	0.00	79.58	79.58	79.58	79.58	79.5 8
U10GE602R	Personality and Career Enhancement - IV	0.00	0.00	78.15	0.00	0.00	0.00	0.00	78.15	78.15	78.15	78.15	0.00	78.15	78.1 5
U10EC607R	Communication Laboratory (Analog, Digital and RF)	94.50	94.50	94.50	94.50	94.50	0.00	0.00	0.00	94.50	0.00	94.50	94.50	94.50	94.5
U10EC608R	VLSI Laboratory	95.33	95.33	95.33	95.33	95.33	0.00	0.00	0.00	95.33	0.00	95.33	95.33	95.33	95.3 3
U10EC609R	Digital Image Processing Laboratory	94.95	94.95	94.95	94.95	94.95	0.00	0.00	0.00	94.95	0.00	94.95	94.95	94.95	94.9 5
U10GE701BR	Professional Ethics and	73.93	0.00	0.00	0.00	0.00	75.58	75.58	75.58	75.58	75.58	75.58	75.58	75.58	75.5

2011-15	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	PSC	PSC	
	Human Values											T	T		8
U10EC701R	Wireless Networks	90.33	0.00	90.33		90.33	90.33	0.00	0.00	0.00	0.00	90.33	90.33	90.33	3
U10EC702R	Optical Fiber Communication	84.81	86.61	85.70		86.80	86.61	86.61	0.00	0.00	0.00	84.81	84.81	84.81	84.8
U10EC703R	Microwave Engineering	83.50	83.50			83.50	0.00	83.50	0.00	0.00	0.00	83.50	83.50		0
U10EC912R	Computer Hardware and Interfacing –E-I	77.09	77.09			77.09	77.09	0.00	0.00	0.00	0.00	77.09	77.09	77.09	9
U10EC921R	Embedded and Real Time System – E- II	80.93	80.93	80.93	80.93	80.93	80.93	0.00	0.00	0.00	0.00	80.93	80.93	80.93	3
U10EC704R	Optical and Microwave Laboratory	96.50	96.50	96.50	96.50	96.88	0.00	0.00	0.00	0.00	96.50	96.50	96.50	96.50	0
U10EC705R	Electronic System Design Laboratory	96.73	96.73	96.73	96.73	96.73	96.73	0.00	0.00	0.00	0.00	96.73	96.73	96.73	96.7 3
U10EC706R	Project Work Phase - I	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.6 0
U10EC801R	Cellular and Mobile Communication	83.90	76.76	85.00	84.59	83.90	83.90	0.00	0.00	0.00	85.37	83.90	83.90	83.90	83.9
U10EC802R	Disaster Management	38.11	38.11	0.00	0.00	38.11	38.11	38.11	38.11	38.11	38.11	38.11	38.11	38.11	1
U10EC922R	Satellite Communication - E-III	85.29	85.29	88.00	87.09	85.44	85.29	0.00	0.00	0.00	85.29	85.29	85.29	85.29	9
U10EC803R	Project Work Phase - II	96.71	96.71	96.71	96.71	96.71	96.71	96.71	96.71	96.71	96.71	96.71	96.71	96.71	96.7
U10EC925R	Medical Electronics & Instrumentation E-IV	88.01	0.00	0.00	0.00	88.01	88.01	0.00	0.00	0.00	88.01	88.01	88.01	88.01	88.0 1
Dire	ct Assessment	80.1	77.26	81.34	80.67	80.17	77.15	53.44	50.53	73.74	72.41	81.94	80.79	83.23	83.33

	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Direct	80.14	77.26	81.34	80.67	80.17	77.15	53.44	50.53	73.74	72.41	81.94	80.79	83.23	83.33
70% of Direct	56.09	54.08	56.94	56.47	56.12	54.01	37.41	35.37	51.61	50.68	57.36	56.55	58.26	58.33
20% of exit survey	17.40	17.20	17.20	16.60	16.80	17.80	16.80	16.40	17.40	16.40	17.20	17.80	17.60	17.40
10% of recruiters survey	7.50	8.45	8.75	8.45	8.70	7.85	8.40	8.95	7.80	7.75	8.30	7.85	8.50	8.25
PO Attainment	80.99	79.73	82.89	81.52	81.62	79.66	62.61	60.72	76.81	74.83	82.86	82.20	84.36	83.98

ANNEXURE-5.8

Publication Details

SCOPUS INDEXED JOURNALS

June 2016 - May 2017

S.No	Author	Title	Volume No.	Issue No.	Year	Page.No.	Publisher	Impact factor
1	Dr.R.S. Sabeenian	WBM- White Black Mass Estimation Technique Based Iris Recognition for Improved Biometric Authentication	24	10	August 2016	100-120	Transylvanian Review	Thomson Reuters
2	Dr.R.S. Sabeenian	Multi Attribute Feature Approximation Based Snapshot Generation and Video Compression Using Fractional Wavelet Transform	24	10	August 2016	170-182	Transylvanian Review	Thomson Reuters
3	Dr.R.S. Sabeenian	Neighbour Block Difference Vector (NBDV) Based Motion Estimation and Self Occlusion Detection in Video Compression	24	10	August 2016	73-95	Transylvanian Review	Thomson Reuters
4	Kashwan K. R	An Extended Bilateral Filter for Speckle Noise Reduction in Ultrasound Kidney	7	3	Sep 2016	13-25	Journal of Next Generation Information Technology	Scopus 0.5

5	T.Premakumari M.Chandrasekaran	R3-SVD: An efficient R3 optimization technique for improved video streaming using singular value decomposition and PSO approach in peer to	24	7	Dec 2016	2226- 2234	Middle –East Journal of scientific Research	Scopus IF 0.36
6	T.Premakumari M.Chandrasekaran	Bandwidth distribution algorithm based DDR scheduler with route selection for real time video streaming in peer to peer networks	15	6	Dec 2016	1139- 1145	Asian Journal of Information Technology	Scopus IF 0.35

June 2015 -May 2016

S.N o	Author	Title	Volume No.	Issue No.	Year	Pag e. No.	Publisher	Impact factor
1.	Ravi G Kashwan K. R.	Performance Analysis 0f Energy Aware Zone Routing Protocol Using Span	37	1	Aug 2015	1-6	International Journal of Computers and Applications	Scopus SNIP: 0.455
2.	Dattathreya K. A Kashwan K. R	FPGA Implementation of Reconfigurable Secure Image Encoding Using Serial 2D-DWT Processor and AES Algorithm	9	1	2015	72- 83	International Journal of Digital Content Technology and its Applications	Scopus SNIP: 0.989
3.	K.Vidyavathi R.S.Sabeenian,	Certain Investigations on video streaming and Frame rate classification for multimedia Applications	67	3	Sept 2015	547- 553	Journal of Theoretical and Applied Information Technology	Scopus 0.320
4	S.Lavanya R.S.Sabeenian,	Novel Segmentation of Iris Images for Biometric Authentication Using Multi Feature Volumetric Measure, Research	11	4	Oct 2015	347- 354	Journal of Applied Sciences, Engineering and Technology	Scopus 0.5
5	S VijayaLakshmi S Padma	Hybrid SVD based Hilbert Huang transform technique for Abnormality detection in Brain MRI images	12	6	Mar 2016	686- 695	Research Journal of Applied sciences, Engineering and Technology	Scopus 0.654

June 2014 -May 2015

S.No	Author	Title	Volume No.	Issue No.	Year	Page.No.	Publisher	Impact
1.	S.Deepa	Intelligent user interactive model for Real Time Text-Graphic Generation	Vol.64	No.3	June 2014	681-686	Journal of Theoretical and Applied Information Technology	Scopus 0.32
2.	M.SenthilVadivu	Fuzzy Rule set based Fetal Heart Rate Detection & separation using wavelet signal analysis under Psychological Moments	Vol.64	No.2	June 2014	420-426	Journal of Theoretical and Applied Information Technology	Scopus 0.32
3.	G. Selvaraj and K. R. Kashwan	Performance Analysis on Router Arbitration for On-chip Networking	Vol.8	No.6	Aug 2014	706-13	Research Journal of Applied Science, Engineering and Technology	Scopus SNIP: 0.454
4.	K.Vidyavathi and R.S.Sabeenian	Certain Investigations on video streaming and Frame rate classification for multimedia Applications	Vol.67	No.3	Sept 2014	547-553	Journal of Theoretical and Applied Information Technology	Scopus 0.320
5.	K.Vidyavathi and R.S.Sabeenian	Estimation and Compensation of Video Motion - A Review	Vol.9	No.6	Nov 2014	164-169	Journal of Convergence Information Technology (JCIT)	Scopus 0.371

6.	K.R.Kavitha	Theoretical study and	9	8	March	601-615	Research Journal of		
		estimation of			2015		Applied sciences,		
		recombination rate and					Engineering and	Scopus	
		photo current of					Technology	0.654	
		quantum dot solar cell						0.004	

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June 2016 -May 2017

S.No	Author	Title	Volume No.	Issue No.	Year	Page.No.	Publisher	Impact factor
1	P.Anandan and R.S.Sabeenian	Medical Image Compression using wrapping based fast discrete curvelet transform and arithmetic coding	7	8	June 2016	2059-2069	Circuits and Systems	IF 0.33
2	K.R.Kavitha & B.Muarali Babu	Performance Characterization Of Quantum Dot Solar Cell Using Homotopy Decomposition Method	6	8	August 2016	236-251	Asian Journal of research in social sciences and humanities	SJIF 4.557
3	G.Ravi K. R. Kashwan	A Review on Energy Efficient Routing for Effective Communication in MANET	6	8	August 2016	1903-1912	Asian Journal of Research in Social Sciences and Humanities	SJIF 4.557

4	K.Vidhyavathi& R.S.Sabeenian	MALSS: Macro level subblock search algorithm based video coding applications	6	Special	Sep 2016	333-342	Asian Journal of research in social sciences and humanities	SJIF 4.557
5	S.Ponlatha & R.S.Sabeenian	High quality video compression for noise removal classification using transforms	6	Special	Sep 2016	232-244	Asian Journal of research in social sciences and6humanities	SJIF 4.557
6	Lavanya. S & R.S.Sabeenian	Region based segmentation of IRIS images for efficient bio metric authentication using sectional mass estimation technique and gray level distribution measure	6	Special	Sep 2016	192-205	Asian Journal of research in social sciences and humanities	SJIF 4.557
7	K.R.Kavitha& B.Muarali Babu	3 D Numerical Modeling Of Quantum Dot Photo Detector Using Haar Wavelet Transform	6	10	October 2016	352-377	Asian Journal of research in social sciences and humanities	SJIF 4.557

June 2015 -May 2016

S.No	Author	Title	Volume No.	Issue No.	Year	Page. No.	Publisher	Impact factor
1	G. Selvaraj and K. R. Kashwan	Evaluation and Analysis of Bidirectional and Unidirectional Routers for Network-On-Chip	10	4	2015	9111-9122	International Journal of Applied Engineering Research	SJR Impact Factor: 0.127
2	S.Ponlatha, Dr.R.S Sabeenian, & J.Dhivya	An Efficient method for Video Compression using Motion estimation and Block	10	46	2015	32228- 32239	International Journal of Applied Engineering	0.166

		tree coding					Research	
3	Vijayalakshmi.S and Padma.S	BMRI TISEHHT: Brain MRI image segment based on enhanced Hilbert huang transform	10	9	2015	23313-22337	International Journal of Applied Engineering Research	0.166
4	J.P.Senthil kumar & M.Chandrasekaran	A comparative study on optimum transmission channel estimation in MIMO-OFDM wireless communication system	10	22	2015	43262-43268	International Journal of Applied Engineering Research	0.166

June 2014 -May 2015

S.No	Author	Title	Volume No.	Issue No.	Year	Page.No.	Publisher	Impact factor
1.	S.Deepa	User Interactive Hierarchical Text to Graphic Generation using Fuzzy Rule sets and Particle Swarm Optimization Techniques	Vol.9	No.22	Nov 2014	15937-15948	International Journal of Applied Engineering Research	0.166
2.	M.Senthil Vadivu	Pattern Mining Techniques for Fetal Heart Rate Detection using Data Mining Under Various Psychological Moments	Vol.9	No. 22	Nov 2014	22191-22202	International Journal of Applied Engineering Research	0.166

3.	S.Ponlatha and R.S.Sabeenian	Robust Feature Selection Based Lossless Video Compression OF Tiny Video Scenes Using MultiFeature Reduction Technique and Wavelet Transform	Vol.9	No.24	Dec 2014	263339-26349	International Journal of Applied Engineering Research	0.166
4	R.S.Sabeenian	Laplacian Regularization Regression Based Impulse Denoising	10	10	April 2015	9918-9922	International Journal of Applied Engineering Research ISSN 0973- 4562	0.166
5	R.S.Sabeenian	Motion Estimation and Detection for Curved UHD TV	10	10	April 2015	9923-9925.	International Journal of Applied Engineering Research	0.166
6	D.Jayanthi	Logical effort for SCV based ripple carry adder	10	55	April 2015	81-85	International Journal of Applied Engineering Research	0.166

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June 2017 -May 2018

S.No	Author	Title	Vol No.	Issue No.	Year	Page.No.	Publisher	Impact Factor
1	K.Manju R.S.Sabeenian	A review on optic disc and cup segmentation	10	1	March	373-379	Bio medical and pharmacology journal	-
2	M.Susaritha, J.Senthil Kumar & S.Vijayalakshmi	A Survey on architectural modifications for improving performances of devices using FINFET techniques.	4	7	July 2017	1008 - 1012	International Research Journal of Engineering and Technology (IRJET)	IF 5.181

June 2016 -May 2017

S.No	Author	Title	Volume No.	Issue No.	Year	Page.No.	Publisher	Impact Factor
1	R.S.Sabeenian	New Edge-Directed Interpolation Based-Lifting DWT and MSPIHT Algorithm for Image Compression	7	9	July 2016	2242-2252	International Journal of Circuits and Systems	NIL
2	M.Varathaguru & R.S.Sabeenian	Image copmpression using improved spiht algorithm with DCCI method	12	15	NOV 2016	4785	Journal of advances in chemistry	NIL
3	M E Paramasivam& R.S.Sabeenian	Analysis of binaryzation algorithms considering color to gray scale conversion methods on historic document images	4	2	December 2016	1044-1070	International Journal of printing, packaging and allied sciences	NIL
4	M E Paramasivam& R.S.Sabeenian	Analysis of binaryzation algorithms considering color to gray scale conversion methods on historic document images	4	2	December 2016	1044-1070	International Journal of printing, packaging and allied sciences	NIL
5	R.Gayathri & R.S.Sabeenian	Fast impulse noise removal algorithm for medical images using improved weighted	4	1	December 2016	661-668	International Journal of printing, packaging and allied sciences	NIL

6	T.Premakumari M.Chandrasekaran	Particle Swarm Optimization technique based video sreaming in P2P networks using multi attribute multi	4	5	Dec 2016	3439-3445	International Journal of Printing Packaging and Alied sciences	NIL	
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June 2015 -May 2016

S.No	Author	Title	Volume No.	Issue No.	Year	Page. No.	Publisher	Impact factor
1	Shermin S. and Kashwan K. R	Reliable and Efficient QoS Routing Using EFSM Based Design for Wireless Sensor Networks	7	1	2015	27-37	Journal of Next Generation Information Technology	0.970
2	Thirumalai T, Kashwan K R ,	Split Ring Patch Antenna for FPGA Configurable RFID Applications	6	3	2015	47-58	Journal of Next Generation Information Technology	SNIP:0.970
3	Dattathreya K. A., Kashwan K. R	VLSI Implementation of 400 MHz 128-Bit Low Power Montgomery Multiplier for AES Algorithm	6	1	2015	10-20	Journal of Next Generation Information Technology	SNIP: 0.970
4	Minu M. and Kashwan K. R	Automatic Voltage Regulation for Home Appliances Using Power Sensor Tag	2	4	2015	765-769	International Journal of Engineering Research & Technology	NIL

5	Loganayagi T. and Kashwan K. R	An Efficient Edge Preserving Filter for Ultrasound Kidney Images	6	3	2015	205-210	International Journal of Engineering Research & Technology	NIL
6	R.S Sabeenian & M.E.Paramasivam	Color to gray scale conversion using the method of Least squares	5	4	2016		Materials Today- procedings	NIL

June 2014 -May 2015

S.No	Author	Title	Volume No.	Issue No.	Year	Page.No.	Publisher	Impact factor
1.	Anandan, and R.S Sabeenian	Curvelet based Image Compression using Support Vector Machine and Core Vector	Vol.4	No.15	June 2014	675-681	International Journal of Advanced Computer Research	1.77
2.	B.Thiyaneswaran	Analysis of gabor filter parameter for IRIS	Vol.3	No.5	Sep 2014	45-48	International Journal of Advanced Computer	0.04
3.	S. K. Pushpa, S. Ramachandran and K. R. Kashwan	Optimizing 3D Sensor Network Topologies Using Skeleton Extraction Algorithms	Vol.4	No.5	Oct 2014	3318- 3327	International Journal of Current Engineering and Technology	NIL

4.	P.Priya Rupeshsah	ASH-HEED Protocol for Heterogeneous Wireless Sensor Networks	Vol.2	No.5	Oct 2014	60-64	International Journal of Innovative Research in Computer and Communication Engineering	0.5
5.	J. Harirajkumar	Analysis of Various MCM Algorithms For Reconfigurable RRC FIR Filter	4	2	Feb 2015	520-525	International Journal for Research in Engineering and Technology	NIL
6.	R.S.Sabeenian	Improved Mean Shift Based Speckle Filtering in SAR Imagery	13	1	March 2015	480-484	International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE)	NIL
7.	Ravi G. and Kashwan K. R	A New Routing Protocol for Energy Efficient Mobile Applications for Ad hoc Networks	48	3	Mar 2015	77-85	International Journal of Computers and Electrical Engineering	SNIP: 1.673
8	R.S.Sabeenian	Restoration of Degraded Documents using Image Riparization Technique	10	7	April 2015	2813- 2817	Asian Research Publishing Network ARPN Journal of Engineering	0.524

ANNEXURE 5.9

Adjunct faculty profile

Dr. Vijayaragavan Viswanathan

He is a Scientist /CERN, Switzerland and CEO of Tiino Techmations Ltd, Start-up entrepreneur, Visiting Professor, Former Scientist, Steering committee member at Ministry of MSME and Adjunct Professor in Sona College of technology and also Member of Board of Studies in Amrita University. He built the low cost radiation monitoring system which can help track the ionizing radiation during nuclear accidents. He is been part of a team instrumental in taking technology developed for Higg's boson (dubbed by media as God particle) experiment back to schools, universities across the world.

Being grown in the farms, He has seen the gap in taking modern technology to make farmers profitable. This untapped market especially in India on precision agriculture gives a clear edge in business. Taking this advantage and leveraging the technology education which he received in Europe is the right way for Smart Agri has created lot of interest across the world and got its recognition from United Nations - ITU, Climate-KIC, Climate launch pad, Innovate4Climate, Indian government etc.

N Suryanarayana Rao

He obtained BE (Electronics) from Bangalore University in 1970 and MTech in Microwave Engineering from IIT Kharagpur. Since 1972 he has been with ISRO Satellite Centre working in the area of communication system. He has been connected with the various satellite programmes of ISRO right from the beginning.

Dr.Simarjeetsaini

Professor Simarjeet Saini joined University of Waterloo in September 2007. He did his B.Tech. (Hons.) from Indian Institute of Technology, Kharagpur in 1996 and his Doctorate from University of Maryland, College Park in 2001 under the guidance of Professor Mario Dagenais. His Ph.D. thesis was on the design and development of a new platform technology for monolithic integration of photonic devices called Passive Active Resonant Coupler (PARC).

The resulting technology led to the foundation of a start-up company Covega Corporation in Jessup, MD. Saini worked as the Lead Optoelectronics Device Engineer at Covega from Dec. 2000- Oct. 2004 and as Lead Applications Engineer from Oct. 2005-Sept. 2007. He lead the design and development of Covega's single angled facet chips, semiconductor optical amplifiers and high power lasers. In August 2004, Saini co-founded a startup company called Altanet Communications which worked on ethernet based metro area networks with less than 5 ms restoration time using intelligence in the optical domain. He also served as a Post-Doctoral Fellow from Oct. 2004-Sept. 2005 in Professor Dagenais' lab at the University of Maryland where he worked on biochemical sensors and optical packet routing.

Saini has been granted 5 US patents and has 5 more in various stages of application. 3 of the patents have already been commercialized. He has co-authored over 20 Journal papers and 40 conference presentations. He was granted the US Army Lab Research Fellowship from 1996-1998, a Distinguished Graduate Research Assistantship from University of Maryland from 1999-2000, and a SPIE Educational Scholarship in 1999. Besides that he was a part of a team comprising of undergraduate students in Indian Institutes of Technology, Kharagpur which received Institute of Electrical and Electronics Engineers Vincent Benedict Award in 1995 for building a smart library. He is also Co-founder and CTO of Savormetrics.

ANNEXURE 8.1

List of faculty teaching first year courses

The list of faculty teaching first year courses for the academic year 2016-2017, 2015-2016 and 2014-2015 is given in Table A8.1 ,Table A8.2 & Table A8.3 respectively.

	Т	able A8.1 List of fac	ulty members teaching fir	st year courses:	2016-2017			
S.	Name of Faculty	Qualification	Designation	Date of joining	Department with which		ition of tea load (%)	aching
NO	Name of Faculty	Qualification	Designation	institution	associated	1st Year	UG	PG
1	Dr.S.Radjarejesri	Ph.D	Associate Professor	01.07.2005	Science (Chemistry)	-	100%	-
2	Dr. T.Maruthavanan	Ph.D	Associate Professor	01.07.2005	Science (Chemistry)	100%	-	-
3	Dr. A.P.Uthirakumar	Ph.D	Associate Professor	19.08.2010	Science (Chemistry)	100%	-	-
4	Dr. N.Panneer Selvam	Ph.D	Asst.Prof	26.07.2010	Science (Chemistry)	100%	-	-
5	Dr.M.Raja	Ph.D	Asst.Prof	29.08.2005	Science (Chemistry)	50%	50%	-
6	Dr.G.Shanthi	Ph.D	Asst.Prof	23.08.2010	Science (Chemistry)	100%	-	-
7	S.Kalaiarasan	M.Sc.,M.Phil	Asst.Prof	17.12.2004	Science	100%	-	-

					(Chemistry)			
8	R.Venkatesh	M.Sc.,M.Phil	Asst.Prof	15.09.1997	Science (Chemistry)	50%	50%	-
9	Dr.C.Saravanan	Ph.D	Asst.Prof	23.10.2014	Science (Chemistry)	100%	-	-
10	Dr. C.Shanthi	Ph.D	Professor & Head	15.09.1997	Science (Physics)	100%	-	-
11	Dr. Raja Sri Sen Jaiswal	Ph.D	Professor	31.01.2003	Science (Physics)	100%	-	-
12	Dr. S.Saravanan	Ph.D	Professor	04.05.2009	Science (Physics)	100%	-	-
13	Dr. V.Balasubramanian	Ph.D	Professor	27.06.2002	Science (Physics)	100%	-	-
14	M.Muthukrishnan	M.Sc.,M.Phil	Asst.Prof	01.07.2005	Science (Physics)	100%	-	-
15	Dr.C.Shanmuga Priya	Ph.D	Asst.Prof	01.03.2006	Science (Physics)	100%	-	-
16	Dr.C.Sridevi	Ph.D	Asst.Prof	20.11.2006	Science (Physics)	100%	1	-
17	P.Kavitha	M.Sc.,M.Phil	Asst.Prof	24.01.2011	Science (Physics)	100%	-	-
18	Dr.P.Sangeetha	Ph.D	Asst.Prof	18.02.2013	Science (Physics)	100%	-	-
19	M.Silambarasan	M.Sc.,M.Phil	Asst.Prof	20.07.2009	Science	100%	-	-

					(Physics)			
20	Dr. M.Renuga	M.Sc.,M.Phil	Professor	01.10.1997	English	50%	-	50%
21	V.Vijaya Lakshmi	MA.,M.Phil	Asst.Prof	01.09.2003	English	50%	-	50%
22	N.Vadivu	MA.,M.Phil	Asst.Prof	20.06.2005	English	100%	-	-
23	G.Sarathalakshmi	MA.,M.Phil	Asst.Prof	20.06.2005	English	50%	-	50%
24	B.Kanchanamala	MA.,M.Phil	Asst.Prof	10.01.2007	English	100%	-	-
25	M.Saraswathy	MA.,M.Phil	Asst.Prof	23.09.2009	English	100%	-	-
26	C.Shahin Banu	MA.,M.Phil	Asst.Prof	03.01.2011	English	100%	-	-
27	R.Sathees Kumar	MA.,M.Phil	Asst.Prof	10.08.2015	English	100%	-	-
28	P.Sree Gayathiri	MA.,M.Phil	Asst.Prof	17.06.2013	English	100%	-	-
29	S.Jayabharathi	M.Sc.,M.Phil	Associate Professor	05.07.2000	Maths	-	60%	40%
30	R.Rahothaman	M.Sc.,M.Phil	Associate Professor	03.05.2004	Maths	-	60%	40%
31	M.Nazreen Banu	M.Sc.,M.Phil	Associate Professor	09.07.2003	Maths	-	60%	40%
32	S.R.Latha	M.Sc.,M.Phil	Asst.Prof	01.04.2005	Maths	40%	60%	-
33	S.Vijay Peter	M.Sc.,M.Phil	Asst.Prof	01.08.2009	Maths	-	67%	33%
34	M.Jayanthi	M.Sc.,M.Phil	Asst.Prof	19.08.2005	Maths	40%	60%	-
35	A.Annie Lotus	M.Sc.,M.Phil	Asst.Prof	26.06.2005	Maths	40%	60%	-
36	A.Saravanan	M.Sc.,M.Phil	Asst.Prof	17.10.2005	Maths	-	100%	-
37	S.Abhirami	M.Sc.,M.Phil	Asst.Prof	03.07.2006	Maths	50%	50%	-

38	G.Suganthi	M.Sc.,M.Phil	Asst.Prof	04.12.2006	Maths	50%	50%	-
39	K.Deiwakumari	M.Sc.,M.Phil	Asst.Prof	02.07.2007	Maths	50%	50%	-
40	A.Abirami	M.Sc.,M.Phil	Asst.Prof	04.07.2007	Maths	50%	50%	-
41	B.Venkatesh	M.Sc.,M.Phil	Asst.Prof	11.06.2007	Maths	-	100%	
42	A.Alfred Leo	M.Sc.,M.Phil	Asst.Prof	01.08.2009	Maths	50%	50%	-
43	T.K.Parvatha Varthini	M.Sc.,M.Phil	Asst.Prof	05.08.2009	Maths	50%	50%	-
44	K.Buvaneswari	M.Sc.,M.Phil	Asst.Prof	03.09.2009	Maths	-	75%	25%
45	Dr.R.Dhavaseelan	Ph.D	Asst.Prof	15.04.2011	Maths	50%	50%	-
46	V.Krishnaraj	M.Sc.,M.Phil	Asst.Prof	18.05.2012	Maths	50%	50%	-
47	N.Sheebha Florance	M.Sc.,M.Phil	Asst.Prof	04.06.2012	Maths	100%	-	-
48	A.S.Nithiya	M.Sc.,M.Phil	Asst.Prof	28.07.2014	Maths	100%	-	-
49	S.Vanitha	M.Sc.,M.Phil	Asst.Prof	03.08.2015	Maths	100%	-	-
50	S.S.Rukmani	M.Sc.,M.Phil	Asst.Prof	10.08.2015	Maths	100%	-	-
51	S.Manikandan	M.Sc.,M.Phil	Asst.Prof	19.08.2015	Maths	100%	-	-
52	S.Uthamapriya	M.Sc.,M.Phil	Asst.Prof	24.08.2015	Maths	100%	-	-
53	R.Shakthivel	M.Sc.,M.Phil	Asst.Prof	27.08.2015	Maths	100%	-	-
54	G.Sakthiambika	M.Sc.,M.Phil	Asst.Prof	01.06.2016	Maths	100%	-	-
55	Dr.S.Anita	Ph.D	Professor / FT	08.10.2001	FT	100%	-	-
56	M.Sugumaran	ME	Asst.Prof / EEE	22.07.2013	EEE	100%	-	-

57	P.Srinivasan	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-
58	S.Senthil Kumar	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-
59	K.Sridevi	ME	Asst.Prof / CSE	19.07.2013	CSE	100%	-	-
60	K.Vaishnavi	ME	Asst.Prof / CSE	02.08.2013	CSE	100%	-	-
61	P.Abinaya	ME	Asst.Prof / CSE	30.07.2014	CSE	100%	-	-
62	M.Janani	ME	Asst.Prof / CSE	06.08.2015	CSE	100%	-	-
63	T.Illakiya	ME	Asst.Prof / EEE	09.07.2012	EEE	100%	-	-
64	J.Raja	ME	Asst.Prof / EEE	01.03.2016	EEE	100%	-	-
65	P.Kumarasan	ME	Asst.Prof / EEE	01.03.2016	EEE	100%	-	-
66	Fatima Joselyn Mystica	ME	Asst.Prof / CSE	01.06.2016	CSE	100%	-	-
67	R.Manikandan	ME	Asst.Prof / EEE	01.06.2016	EEE	100%	-	-
68	R.Karthikeyan	ME	Asst.Prof / Mech	01.06.2016	Mech	100%	-	-

Table A8.2: List of faculty members teaching first year courses: 2015-2016

S. NO	Name of Faculty	Qualification	Designation	Date of joining	Department with which	Distribution of teaching load (%)		
				institution	associated	1st Year	UG	PG
1	Dr. K.Karunakaran	Ph.D	Professor	12.04.2002	Science (Chemistry)	100%	-	-
2	Dr.S.Radjarejesri	Ph.D	Associate Professor	31.01.2003	Science (Physics)	100%	-	-
3	Dr. T.Maruthavanan	Ph.D	Associate Professor	01.07.2005	Science (Chemistry)	100%	-	-
4	Dr. A.P.Uthirakumar	Ph.D	Associate Professor	19.08.2010	Science (Chemistry)	100%	-	-
5	Dr. N.Panneer Selvam	Ph.D	Asst.Prof	26.07.2010	Science (Chemistry)	100%	-	-
6	Dr.M.Raja	Ph.D	Asst.Prof	29.08.2005	Science (Chemistry)	50%	50%	-
7	Dr.P.Subbramaniyan	Ph.D	Asst.Prof	01.08.2006	Science (Chemistry)	100%	-	-
8	Dr. G.Shanthi	Ph.D	Asst.Prof	23.08.2010	Science (Chemistry)	100%	-	-

9	S.Kalaiarasan	M.Sc., M.Phil	Asst.Prof	17.12.2004	Science (Chemistry)	100%	-	-
10	R.Venkatesh	M.Sc., M.Phil	Asst.Prof	15.09.1997	Science (Chemistry)	50%	50%	-
11	Dr.C.Saravanan	Ph.D	Asst.Prof	04.05.2009	Science (Physics)	100%	-	-
12	Dr. Raja Sri Sen Jaiswal	Ph.D	Professor	31.01.2003	Science (Physics)	100%	-	-
13	Dr. S.Saravanan	Ph.D	Professor	04.05.2009	Science (Physics)	100%	-	-
14	Dr. C.Shanthi	Ph.D	Professor	15.09.1997	Science (Physics)	100%	-	-
15	Dr. V.Balasubramanian	Ph.D	Professor	27.06.2002	Science (Physics)	100%	-	-
16	Dr.P.Jagdish	Ph.D	Associate Professor	26.06.2002	Science (Physics)	100%	-	-
17	M.Muthukrishnan	M.Sc., M.Phil	Asst.Prof	01.07.2005	Science (Physics)	100%	-	-
18	C.Shanmuga Priya	M.Sc., M.Phil	Asst.Prof	01.03.2006	Science (Physics)	100%	-	-
19	Dr.C.Sridevi	Ph.D	Asst.Prof	20.11.2006	Science (Physics)	100%	-	-
20	P.Kavitha	M.Sc., M.Phil	Asst.Prof	24.01.2011	Science	100%	-	-

					(Physics)			
21	Dr.P.Sangeetha	Ph.D	Asst.Prof	18.02.2013	Science (Physics)	100%	-	-
22	Dr. M.Renuga	Ph.D	Professor	01.10.1997	English	50%	-	50%
23	V.Vijaya Lakshmi	MA., M.Phil	Asst.Prof	01.09.2003	English	50%	-	50%
24	N.Vadivu	MA., M.Phil	Asst.Prof	20.06.2005	English	100%	-	-
25	G.Sarathalakshmi	MA., M.Phil	Asst.Prof	20.06.2005	English	50%	-	50%
26	B.Kanchanamala	MA., M.Phil	Asst.Prof	10.01.2007	English	100%	-	-
27	Dr.V.Vijayalakshmi	Ph.D	Asst.Prof	27.03.2008	English	100%	-	-
28	M.Saraswathy	MA., M.Phil	Asst.Prof	23.09.2009	English	100%	-	-
29	C.Shahin Banu	MA., M.Phil	Asst.Prof	03.01.2011	English	100%	-	-
30	S.Jayabharathi	M.Sc., M.Phil	Associate Professor	05.07.2000	Maths	-	60%	40%
31	R.Rahothaman	M.Sc., M.Phil	Associate Professor	03.05.2004	Maths	-	60%	40%
32	M.Nazreen Banu	M.Sc., M.Phil	Associate Professor	09.07.2003	Maths	-	60%	40%
33	S.R.Latha	M.Sc., M.Phil	Asst.Prof	01.04.2005	Maths	40%	60%	-
34	S.Vijay Peter	M.Sc., M.Phil	Asst.Prof	01.08.2009	Maths	-	67%	33%
35	M.Jayanthi	M.Sc., M.Phil	Asst.Prof	19.08.2005	Maths	40%	60%	-
36	A.Annie Lotus	M.Sc., M.Phil	Asst.Prof	26.06.2005	Maths	40%	60%	-

37	A.Saravanan	M.Sc., M.Phil	Asst.Prof	17.10.2005	Maths	-	100%	-
38	S.Abhirami	M.Sc., M.Phil	Asst.Prof	03.07.2006	Maths	50%	50%	-
39	G.Suganthi	M.Sc., M.Phil	Asst.Prof	04.12.2006	Maths	50%	50%	-
40	K.Deiwakumari	M.Sc., M.Phil	Asst.Prof	02.07.2007	Maths	50%	50%	-
41	A.Abirami	M.Sc., M.Phil	Asst.Prof	04.07.2007	Maths	50%	50%	-
42	Dr.R.Vikrama Prasad	Ph.D	Asst.Prof	11.06.2007	Maths	50%	50%	-
43	B.Venkatesh	M.Sc., M.Phil	Asst.Prof	11.06.2007	Maths	-	100%	
44	A.Alfred Leo	M.Sc., M.Phil	Asst.Prof	01.08.2009	Maths	50%	50%	-
45	T.K.Parvatha Varthini	M.Sc., M.Phil	Asst.Prof	05.08.2009	Maths	50%	50%	-
46	S.Sivasubramaniam	M.Sc., M.Phil	Asst.Prof	26.08.2009	Maths	50%	50%	-
47	K.Buvaneswari	M.Sc., M.Phil	Asst.Prof	03.09.2009	Maths	-	75%	25%
48	Dr.R.Dhavaseelan	Ph.D	Asst.Prof	15.04.2011	Maths	50%	50%	-
49	V.Krishnaraj	M.Sc., M.Phil	Asst.Prof	18.05.2012	Maths	50%	50%	-
50	N.Sheebha Florance	M.Sc., M.Phil	Asst.Prof	04.06.2012	Maths	100%	-	-
51	N.Prabhu	M.Sc., M.Phil	Asst.Prof	31.05.2006	Maths	100%	-	-
52	Dr.V.Vanitha	Ph.D	Asst.Prof	28.07.2014	Maths	100%	-	-
53	A.S.Nithiya	M.Sc., M.Phil	Asst.Prof	28.07.2014	Maths	100%	-	-
54	Dr.S.Anita	Ph.D	Professor / FT	08.10.2001	FT	100%	-	-

55	M.Sugumaran	ME	Asst.Prof / EEE	22.07.2013	EEE	100%	-	-
56	P.Srinivasan	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-
57	S.Senthil Kumar	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-
58	M.Janani	ME	Asst.Prof / CSE	22.07.2013	CSE	100%	-	-
59	S.Vidhya	ME	Asst.Prof / CSE	22.07.2013	CSE	100%	-	-
60	K.Vaishnavi	ME	Asst.Prof / CSE	02.08.2013	CSE	100%	-	-
61	P.Abinaya	ME	Asst.Prof / CSE	30.07.2014	CSE	100%	-	-
62	T.Illakiya	ME	Asst.Prof / EEE	09.07.2012	EEE	100%	-	-
63	T.Kalavani	ME	Asst.Prof / ECE	14.07.2009	ECE	100%	-	-
64	V.Geetha Lakshmi	ME	Asst.Prof / ECE	10.07.2013	ECE	100%	-	-

Table A8.3 List of faculty members teaching first year courses: 2014-2015

S. NO	Name of Faculty	Qualification	Designation	Date of joining institution	Department with which	Distribution (%)	on of teach	ning load
					associated	1st Year	UG	PG
1	Dr. K.Karunakaran	Ph.D	Professor	12.04.2002	Science (Chemistry)	100%	-	-
2	Dr.S.Radjarejesri	Ph.D	Associate Professor	31.01.2003	Science (Physics)	100%	-	-
3	Dr. T.Maruthavanan	Ph.D	Associate Professor	01.07.2005	Science (Chemistry)	100%	-	-
4	Dr.A.P.Uthirakumar	Ph.D	Associate Professor	19.08.2010	Science (Chemistry)	100%	-	-
5	Dr.N.Panneer selvam	Ph.D	Asst.Prof	26.07.2010	Science (Chemistry)	100%	-	-
6	Dr.M.Raja	Ph.D	Asst.Prof	29.08.2005	Science (Chemistry)	50%	50%	-
7	Dr.P.Subbramaniyan	Ph.D	Asst.Prof	01.08.2006	Science (Chemistry)	100%	-	-
8	Dr. G.Shanthi	Ph.D	Asst.Prof	23.08.2010	Science	100%	-	-

					(Chemistry)			
9	S.Kalaiarasan	M.Sc., M.Phil	Asst.Prof	17.12.2004	Science (Chemistry)	100%	-	-
10	R.Venkatesh	M.Sc., M.Phil	Asst.Prof	15.09.1997	Science (Chemistry)	50%	50%	-
11	Dr. Raja Sri Sen	Ph.D	Professor	31.01.2003	Science (Physics)	100%	-	-
12	Dr. S.Saravanan	Ph.D	Professor	04.05.2009	Science (Physics)	100%	-	-
13	Dr. C.Shanthi	Ph.D	Professor	15.09.1997	Science (Physics)	100%	-	-
14	Dr.V.Balasubramanian	Ph.D	Professor	27.06.2002	Science (Physics)	100%	-	-
15	Dr.P.Jagdish	Ph.D	Associate Professor	26.06.2002	Science (Physics)	100%	-	-
16	M.Muthukrishnan	M.Sc., M.Phil	Asst.Prof	01.07.2005	Science (Physics)	100%	-	-
17	C.Shanmuga Priya	M.Sc., M.Phil	Asst.Prof	01.03.2006	Science (Physics)	100%	-	-
18	Dr.C.Sridevi	Ph.D	Asst.Prof	20.11.2006	Science (Physics)	100%	-	-
19	M.Ananthakrishnan	M.Sc., M.Phil	Asst.Prof	15.09.1997	Science (Physics)	100%	-	-

20	P.Kavitha	M.Sc., M.Phil	Asst.Prof	24.01.2011	Science (Physics)	100%	-	-
21	Dr. M.Renuga	Ph.D	Professor	01.10.1997	English	50%	-	50%
22	V.Vijaya Lakshmi	MA., M.Phil	Asst.Prof	01.09.2003	English	50%	-	50%
23	N.Vadivu	MA., M.Phil	Asst.Prof	20.06.2005	English	100%	-	-
24	G.Sarathalakshmi	MA., M.Phil	Asst.Prof	20.06.2005	English	50%	-	50%
25	B.Kanchanamala	MA., M.Phil	Asst.Prof	10.01.2007	English	100%	-	-
26	V.Vijayalakshmi	MA., M.Phil	Asst.Prof	27.03.2008	English	100%	-	-
27	M.Saraswathy	MA., M.Phil	Asst.Prof	23.09.2009	English	100%	-	-
28	C.Shahin Banu	MA., M.Phil	Asst.Prof	03.01.2011	English	100%	-	-
29	S.Jayabharathi	M.Sc., M.Phil	Associate Professor	05.07.2000	Maths	-	60%	40%
30	R.Rahothaman	M.Sc., M.Phil	Associate Professor	03.05.2004	Maths	-	60%	40%
31	M.Nazreen Banu	M.Sc., M.Phil	Associate Professor	09.07.2003	Maths	-	60%	40%
32	C.Dhanalakshmi	M.Sc., M.Phil	Associate Professor	01.10.2003	Maths	-	100%	-
33	S.R.Latha	M.Sc., M.Phil	Asst.Prof	01.04.2005	Maths	40%	60%	-
34	S.Vijay Peter	M.Sc., M.Phil	Asst.Prof	01.08.2009	Maths	-	67%	33%
35	M.Jayanthi	M.Sc., M.Phil	Asst.Prof	19.08.2005	Maths	40%	60%	-
36	A.Annie Lotus	M.Sc., M.Phil	Asst.Prof	26.06.2005	Maths	40%	60%	-

37	A.Saravanan	M.Sc., M.Phil	Asst.Prof	17.10.2005	Maths	-	100%	-
38	S.Abhirami	M.Sc., M.Phil	Asst.Prof	03.07.2006	Maths	50%	50%	-
39	G.Suganthi	M.Sc., M.Phil	Asst.Prof	04.12.2006	Maths	50%	50%	-
40	K.Deiwakumari	M.Sc., M.Phil	Asst.Prof	02.07.2007	Maths	50%	50%	-
41	A.Abirami	M.Sc., M.Phil	Asst.Prof	04.07.2007	Maths	50%	50%	-
42	Dr.R.Vikrama Prasad	Ph.D	Asst.Prof	11.06.2007	Maths	50%	50%	-
43	B.Venkatesh	M.Sc., M.Phil	Asst.Prof	11.06.2007	Maths	-	100%	
44	A.Alfred Leo	M.Sc., M.Phil	Asst.Prof	01.08.2009	Maths	50%	50%	-
45	T.K.Parvatha Varthini	M.Sc., M.Phil	Asst.Prof	05.08.2009	Maths	50%	50%	-
46	S.Sivasubramaniam	M.Sc., M.Phil	Asst.Prof	26.08.2009	Maths	50%	50%	-
47	K.Buvaneswari	M.Sc., M.Phil	Asst.Prof	03.09.2009	Maths	-	75%	25%
48	Dr.R.Dhavaseelan	Ph.D	Asst.Prof	15.04.2011	Maths	50%	50%	-
49	V.Krishnaraj	M.Sc., M.Phil	Asst.Prof	18.05.2012	Maths	50%	50%	-
50	N.Sheebha Florance	M.Sc., M.Phil	Asst.Prof	04.06.2012	Maths	100%	-	-
51	Dr.S.Anita	Ph.D	Professor / FT	08.10.2001	FT	100%	-	-
52	S.V.Giri Prasad	ME	Asst.Prof / Mech	22.07.2013	Mech	100%	-	-
53	M.Sugumaran	ME	Asst.Prof / EEE	22.07.2013	EEE	100%	-	-
54	P.Srinivasan	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-

55	S.Senthil Kumar	ME	Asst.Prof / ECE	01.07.2013	ECE	100%	-	-
56	K.Sridevi	ME	Asst.Prof / CSE	19.07.2013	CSE	100%	-	-
57	G.Aarthy	ME	Asst.Prof / CSE	01.08.2013	CSE	100%	-	-
58	M.Janani	ME	Asst.Prof / CSE	22.07.2013	CSE	100%	-	-
59	S.Vidhya	ME	Asst.Prof / CSE	22.07.2013	CSE	100%	-	-
60	K.Vaishnavi	ME	Asst.Prof / CSE	02.08.2013	CSE	100%	-	-

ANNEXURE 10.1

MINUTES OF MEETING for different committees.

SONA COLLEGE OF TECHNOLOGY (Autonomous)

SONA QMS ISO 9001:2015

20.07.17

MINUTES OF THE 29th MANAGEMENT REVIEW COMMITTEE MEETING

(Date of the meeting: 20.07.17)

NO.	AGENDA	PAGE
1	To confirm and approve the minutes of the previous Management Review Committee Meeting held on 21.02.17 and approve the action taken on the minutes.	2
2.	To peruse the results of Internal Quality Audit	2
3.	To review the Quality Policy and the attainment of 'College level objectives 2016-2017'	2
4	To review the 'Monitoring and Measurement Results'	5
5	To approve the 'College level objectives 2017-2018'	6
6	To peruse the feedback from alumni and industries	8
7.	To peruse the feedback through suggestion boxes and feedback from students / parents and other stakeholders	8
8.	To peruse the internal and external issues that affect the QMS and the effectiveness of the action taken to address risks and opportunities	8
9.	To peruse the details of QMS – Adequacy, Continuing suitability and Enhancement and Continual Improvement	9
10.	Any other matter of interest	10

The 29th Management Review Committee meeting was held on 20/07/17. The meeting commenced at 11.00 am. The Principal, The QMS Coordinator, HODs and Section heads, internal quality auditors and the ISO core team members and Mr. Alagappan, MR/Vee Technologies were present. The meeting was convened by the QMS Coordinator and was headed by the Principal.

The following points were discussed.

Agenda – 1 Actions taken on points of previous MRC meeting held on 21.02.2017

ITEM No.	MINUTES	ACTION TAKEN		
1.a	A separate & unified objective on	All digital learning platforms have been		
	'Platforms for digitization'	grouped under one specific objective in teaching and learning		
1.b	A work plan calendar to be prepared for organizing international conference (CSE, IT & MCA)	Work plan calendar prepared and is followed		
1.c	Migrating to ISO 9001:2015 standards	We are now adopting the new standards		
1.d	Difficulty in identifying ebooks for all courses	An one-to-one discussion was arranged between the publishers and HODs/ domain experts to help them identify ebooks to be prescribed as text books for students.		
1.e	Utilization chart for the digital platforms on a 5 point grade scale	Utilization of Digital Platforms		

Agenda - 2 The Results of Internal Quality Audit

The results of the Internal Quality Audit conducted on 22/6/17 and 23/6/17 were discussed. A total number of 14 non-conformities were reported. Scopes for improvement/ Suggestions were also taken into consideration. Mr. Alagappan insisted to attach the proof of evidence while closing the non-conformities and to ensure that the documents are signed by the auditor and the auditee.

Agenda –3 To review the Quality policy and the attainment of college level objectives 2016-2017

The quality policy of the institution was reviewed and the scope of the quality polict was discussed. Then the Report on the attainment of "College–level quality objectives" for the period 2016-17 was taken-up for discussion.

S.NO	OBJECTIVE	PERSON IN-CHARGE	STATUS
1	To complete the renewal of autonomous status by Oct 2016	Mr. Selvamuthu, Admin	✓ Achieved
2	To finalize and implement Regulations 2015R for all disciplines	Member Secretary, Academic Council	✓ Achieved
3	To assess the level of attainment of vision and mission, PEOs, POs and COs of all programmes once in 6 months	The Principal	In progress
4	To conduct academic audits for all programmes at least once a year	Member Secretary, Academic Council	✓ Achieved
5	To organize a minimum of two pedagogical/andragogical training programmes per year for new teaching faculty and for those who require additional training	HR Department	✓ Achieved
6	To organize at least one common skill-development programme per year for the supporting staff	HR Department	✓ Achieved
7	To review student performance in CIE tests for all departments within 2 weeks of completion of the tests	Principal	✓ Achieved
8	To ensure that the first-year and second year students have laptops inclusive of e-books for their courses on the opening day of odd and even semester	HOD/ First Year	✓ Achieved
9	To organize the distribution of new textbooks and course materials to all students of third and final year within 2 weeks of commencement of classes every semester	Purchase Department	✓ Achieved
10	To complete the first level of MOODLE training for all faculty by July 2016 and to ensure that they are conversant with the application and to organize one workshop per department on the use of BLACKBOARD LMS	Department of CSE/IT	✓ Achieved
11	To organize one international conference every year such that major disciplines have a conference once in 5 years	HODs	In- Progress
12	To follow up on the construction of a University Block	The Principal	In progress
13	To achieve 100% campus placement of eligible & interested candidates by June-July every year or 90% placement according to NBA norms with an average student's salary of 3 Lakhs every year	Placement department	 ✓ Overall placement till date: 88% with avg salary of 2.81 lakhs

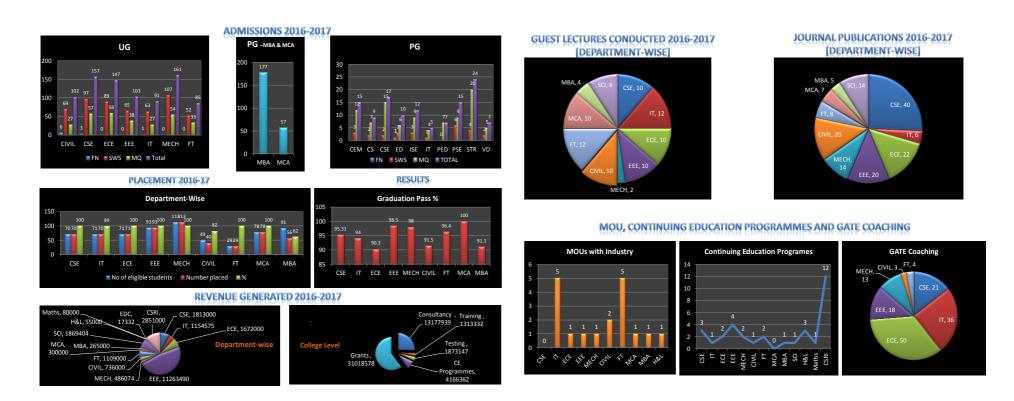
14	To sign MoUs or enter into collaborations with a minimum total of ten industries for mutually-beneficial interaction and organise at least 10 joint programmes	The Heads of all departments	✓ Achieved MOUs signed:18 Joint Programmes: 15 Internship: 72
15	To organize a minimum of 40 continuing education courses / programmes for the benefit of society in the region and generate 40 Lakhs through Continuing Education Centre	CEC	✓ Achieved No. of programmes : 33 Total revenue : 41.66 lakhs
16	To achieve a revenue generation to the tune of Rs.3 Crores through R-and-D, continuing education, industrial consultancy, testing services, etc.	R&D Centres, CEC, Departments	✓ Achieved Revenue generation Consultancy: 131.77 Lakhs Training: 13.13 Lakhs Testing: 18.73 Lakhs CE Programmes:40.66 Lakhs Grants: 310.18 Lakhs Total: 514.47 Lakhs
17	To have all UG programmes and MCA and MBA accredited by NBA	NBA Coordinator, Principal, Director/Academics	In progress
18	To prepare for NAAC accreditation from Oct 2016 and send application by March 2017	Principal, Director/Academics, AICTE/ NBA Division	In progress
19	To introduce RFID in the library and for stock taking	Librarian	In progress

The following points were discussed

- 1. The HODs presented the difficulty in assessing the attainment of PEOs Pos and Cos and it was decided to arrive at an uniform measurement that should be followed for assessing the attainment of PEOs Pos and Cos in all departments.
- 2. The Member secretary informed that the Academic Audit committee should be framed for the current academic year

Agenda - 4 To review the 'Monitoring and Measurement Results'

The MR presented the monitoring and the measurement results of the institution. The following nine KPIs were listed out under which the performance was analyzed.



The following suggestions were given by the members of the meeting

- 1. To include department wise average salary in placement chart and to display the logo of the top five companies
- 2. To include lateral entry strength in the admission KPI
- 3. To present dept.wise counsultancy, training and testing for revenue generation

Agenda – 5 To approve the 'College level objectives 2017-2018'

College Level Objectives for 2017-2018

1) Autonomous Status and Curriculum Development

- a. To implement Choice based credit system in the Autonomous Regulations 2015R
- b. To assess the level of attainment of vision and mission, PEOs, POs once a year and COs once in 6 months for all programmes
- c. To conduct academic audits for all programmes at least once a year
- d. To introduce and implement 6 months full time Project during 8th semester for all branches from 2015 regulation onwards

2) Staff Development

- a. To organise a minimum of two pedagogical training programmes per year for new teaching faculty and for those who require additional training
- b. To organise at least one common skill-development programme per year for the supporting staff

3) <u>Teaching-Learning Process</u>

- a. To review student performance in CIE tests for all departments within 2 weeks of completion of the tests
- b. To attain 100% utilization of the digital learning platforms (Moodle/Blackboard/LCS) by all teaching faculty by October 2017
- c. To register and complete atleast two relevant MOOC courses/ 1 MOOC course and 1 FDP/industrial training(not less than 5 days) by all teaching faculty per year
- d. To appoint two adjunct faculty from industry for every programme

4) Co-Curricular Activities

- a. To organise one international conference every two years such that major disciplines have a conference once in 5 years
- b. To conduct coaching classes for national level competitive exams like UPSC, GATE etc and to ensure that 2 students from each department clear the exams successfully

5) Extracurricular Activities

- a. To Periodically carryout extra-curricular activities through NCC, NSS, YRC and other Clubs.
- b. To be within the top three rank of Anna University, Chennai sports meet and to achieve at least 5 medals at the national/international level

6) Infrastructure Development

- a. To follow up on the construction of a University Block and complete it by 2019
- b. To form a Purchase Executive committee and conduct purchase approval meeting once a year for carrying out budget utilization and infrastructure maintenance

7) Placement

To achieve 95% campus placement of eligible & interested candidates by June-July every year with an average student's salary of 3 Lakhs every year

8) R-and-D, Industry- Institute Interaction, Continuing Education, Consultancy, Incubation

- a. To sign MoUs or enter into collaborations with a minimum total of ten industries for mutually-beneficial interaction and organise at least 10 joint programmes
- b. To organise a minimum of 40 continuing education courses / programmes for the benefit of society in the region and generate 45 Lakhs through Continuing Education Centre
- c. To achieve R& D grants and revenue generation through consultancy, training and testing services etc. to the tune of Rs.3. Crores

9) Accreditation

- a. To get NBA accreditation for the UG programmes of Civil, CSE, ECE & IT and PG programmes MBA and MCA
- b. To renew NAAC accreditation before March 2018

10) Security System

- a. To implement RFID in the library and for stock taking
- b. To install surveillance cameras at vantage points in the campus- Phase II before October 2017

The college level objectives for 2017-2018 was taken for discussion. Some of the objectives were revised and approved. The following points were discussed and recorded based on the valuable suggestions put forth by the members during the meeting.

- 1. The HODs presented the difficulty in assessing the attainment of PEOs Pos and Cos and it was decided to arrive at an uniform measurement that should be followed for assessing the attainment of PEOs Pos and Cos in all departments.
- 2. The Member secretary informed that the Academic Audit committee should be framed for the current academic year
- 3. The principal informed the Librarian and the HOD/ECE to fix a deadline and initiate work accordingly for implementing RFID in the library
- 4. Mr.Alagappan informed all the auditees to make sure that all obsolete documents are segregated and removed from all notice boards and displays
- 5. The Principal also informed that a sum of 2 lakhs has been granted from AICTE for the International conference planned by the Departments of CSE, IT and MCA in the month of Dec 2017. Prof. Selvaraj of MBA informed that the Department of MBA has planned an International Conference "Futura" on 28, 29 & 30th in Goa
- 6. HOD/ CIVIL recorded her concern in having a career counseling centre through which awareness and counseling can be given to students regarding nationa and international competitive examinations like GRE, TOFEL, GATE, UPSC etc
- 7. The Training Coordinator Dr.Anitha informed about the coaching classes for UPSC "Swadesh II" which is scheduled to start in the month of August 2017. Currently classes for Swadesh- I is going on with a total strength of 77 students.

Agenda - 6 Feedback from Alumni and Industry

A consolidated report on the feedback received from alumni is given below:

- Few alumni have come forward to act as mentors for the student's project.
- Use the social media and online forums prove very effective for alumni
- Alumni gettogether very useful, exciting and motivating

A consolidated report on the feedback received from Industry is given below:

Strength of our students: motivated & high spirits

Suggestions/ Observations:

Feedback from IT companies:

- Problem solving skills should be improved
- To be clear on the content of resume
- Need more exposure in real time project development

Feedback from CORE companies:

- Students should be thorough in all basic concepts and fundamentals.
- Students have to do more number of mini projects to demonstrate the application of the concepts understood.
- Interpersonal skills and team building concepts to be trained

<u>Agenda – 7 Feedback through suggestion boxes and feedback from students / parents and other stakeholders</u>

The HR-Manager informed the members that there were no complaints received from students through suggestion boxes very recently because of examinations and summer holidays. HOD/IT and HOD/EEE presented the feedback received from parents and the action taken on them.

S.No	Parent's Request	Action Taken		
1	To give more programming knowledge for their ward	Interested students can join SPROC (Sona Programming Club)		
2	To provide bus facilities in some places at Salem	College facilities and timing details informed to students		
3	To send SMS regarding all students event	Dept. event schedule shared thru SMS		
4	To arrange maths special classes	Arranged maths remedial classes in the evening		
5	To give Yoga training and health tips	Yoga and medical center coordinator number is shared to the interested students and were asked to attend classes in the evening		
6	To declare holiday on alternative Saturdays	Request has been made to the Principal		
7	To improve food quality in the hostel	Communicated orally to the General Manager-Hostels		
8	To make arrangements to pay fees through online	Facility made available		

<u>Agenda - 8 The internal and external issues that affects the QMS and the effectiveness of the action taken to address risks and opportunities</u>

The internal and external issue affecting the institution was taken up for discussion and it was informed that every auditee should make sure that the risks cover all the issues that have been identified.

S.No	Departments	Number of Risks Identified	Acceptable Risks (after mitigation) (RPN<=16)	Not Acceptable Risks (after mitigation) (RPN>16)
1	MECH (UG & PG)	27	27	Nil
2	EEE (UG & PG)	20	20	Nil
3	CIVIL (UG & PG)	22	22	Nil
4	ECE (UG & PG)	26	26	Nil
5	CSE (UG & PG)	26	26	Nil
6	IT (UG & PG)	45	45	Nil
7	FT	33	33	Nil
8	MBA	21	21	Nil
9	MCA	32	32	Nil

10	Science	19	19	Nil
11	Humanities &	7	7	Nil
11	Languages			
12	Mathematics	22	22	Nil
13	Academic Council	5	5	Nil
14	Library	3	3	Nil
15	Physical Education	6	6	Nil
16	Human Resource	4	4	Nil
17	Training	5	5	Nil
18	Placement	2	2	Nil
19	AO-Purchase	3	3	Nil
19	&Transport			
20	Hostel: Boys & Girls	6	6	Nil
21	Office of COE	8	8	Nil
22	MR	7	7	Nil
23	Top Management	27	27	Nil

Minutes of Management Review Committee (MRC) Meeting

<u>Agenda-9</u> QMS-Adequacy, Continuing suitability, Enhancement and Continual Improvement

QMS-Adequacy and enhancement was also discussed. The MR informed that the institution has migrated to ISO 9001:2015 from $1^{\rm st}$ April 2015. The process manual has been revised based on the new standards and is available for access through MIS. The recertification audit is scheduled on $3^{\rm rd}$ and $4^{\rm th}$ August and all concerned section heads were requested to be well prepared for the same.

Agenda - 10 Any other matter of interest

Department level objectives of two departments, Science and ECE were taken up for discussion and revisions were suggested in them. All other departments were asked to revise their objectives based on the suggestions and guidelines given.

MR/ SONA QMS Coordinator

PRINCIPAL

Copy to:

- 1. Submitted to the Chairman
- 2. Submitted to the Director Academics
- 3. Deans / Directors / HODs / Section Heads
- COE
- 5. AOA/AOS/AOF
- 6. Director HR
- 7. Placement & Training Cell
- 8. Librarian
- 9. Deputy Warden (Hostel)
- 10. Sports Director
- 11. I.Q. Auditors
- 12. File

MINUTES OF GOVERNING BODY MEETING

Held on Monday 04.07.2016 at 10:15 am – MBA Conference Hall Sona College of Technology (Autonomous), Salem

The Governing Body meeting was held at 10.15 AM on Monday, 04.07.2016 at Sona College of Technology, Salem.

Thiru. C. Valliappa, Chairman, presided over the meeting and the following members were present.

 Thiru. C. Valliappa Chairman Sona College of Technology Salem – 636 005

Dr. S. Xavier Alphonse SJ
 Co-ordinator Jesuit Higher Education Commission. Tamil
 Nadu UGC Nominee & Former Principal of Loyola College,

Chennai Jesuit Residence, St. Joseph College, Trichy-620 002

 Thiru. Chocko Valliappa Vice-Chairman Sona College of Technology Salem – 636 005

4. Thiru. Thyagu Valliappa Vice-Chairman Sona College of Technology Salem – 636 005

5. Dr. C. V. Koushik
Director - Academics
Sona College of Technology
Salem – 636 005

6. Dr. C. Eswarlal
Professor / EEE
Sona College of Technology
Salem – 636 005

7. Dr. M. Usha Principal & Member Secretary Sona College of Technology, Salem – 636 005

Dr. V. Karthikeyan, Principal, Thiagarajar Polytechnic College, Salem attended the meeting as a special invitee.

The following members were not present due to their previously-committed engagements.

 Padma Bhushan Dr. R. Kumar Educationalist 47/1, 7th Cross, 5th Main, Malleswaram, Bengalooru – 560 003

2. **Dr. S. Sukumar** (Retd.)

Professor of Civil Engineering Department & Anna University Nominee Government College of Engineering, Salem.

Dr. S. Subramanian
 Former Vice – Chancellor
 Bharathiar University, 23, Vidhya
 Nagar, Civil Aerodrome Post,
 Coimbatore-14

4. Dr. A. Ebenezer Jayakumar State Government Nominee & Director Academics, Sri RKCE, Coimbatore.

5. Dr.V. Jayaprakash
Senior Administrator/Professor-Mechanical
Sona College of Technology
Salem – 636 005

Thiru. R. Srivatsan
 Auditor
 Arts College, Maravaneri,
 Salem – 636 005

Dr. M. Usha, Principal, welcomed the Governing Body members, and the faculty and staff of Sona College of Technology.

The Chairman, Thiru. C. Valliappa, briefed the status of the institution and its achievement during the last 6 months.

Dr. C. V. Koushik, Director – Academics, presented details of the achievements of the institution to the members for comments, discussion and approval.

A. GENERAL:



To confirm and approve the minutes of the previous governing body meeting held on 22.01.2016 and approve the action taken on the minutes

The members confirmed the minutes of the previous governing body meeting held on 22.01.2016 and approved the actions taken and follow up of the minutes.

Recorded

B. ADMINISTRATION:

Item No.B1

To peruse the role of the administration of the institute under Autonomous

status

- ☐ The amendments in the Autonomous Regulations-2015 and in the curricula and syllabile approved by the Boards of Studies and subsequently by the Academic Council held in 2015-16 were presented. The governing body approved all of the amendments:
 - o Amendments to Autonomous Regulations-2015
 - Introduction of a revised version of the curricula and syllabi to be called Autonomous Regulations-2015R and effective from 2016-17
 - Constitution of a Standing Committee to peruse the fine details and review the implementation of the CBCS
 - Proposal for modification of the BOS set-up which would henceforth cater to the precise needs of individual disciplines in all respects by having special discipline-wise sub-committees to fine-tune the syllabi of the foundation courses in place of the BOS for the first-year.
- ☐ The members approved the appointment of the Dr. M. Usha as Principal.
- With regard to the renewal of the autonomous status for which the college had already sent the application to UGC through Anna University, Dr. Xavier Alphonse suggested that Joint Secretary, Autonomous Colleges, UGC may be addressed for any clarification/action on the autonomous status. He also advised the college authorities to go through the Subramanian Committee Report about the New Education Policy 2016.

Perused & Recorded

Item No.B2

To peruse the support system for the development of the

Institute

Dr. Alphonse observed that central funding agencies such as UGC, AICTE and DST have now started to grant funds to private institutions also. He suggested that Sona College could use this positive trend to get research funding.

Perused & Recorded

C. ACHIEVEMENTS

Item No.C1

To peruse the awards and honours received by the institution for

various activities

□ Dr. C.V. Koushik mentioned that Sona College of Technology is one among the top 50 engineering colleges in India, including NITs, IITs and leading universities. Sona College was placed at the 47th Rank by MHRD, Govt. of India under its NIRF India-Rankings 2016 Scheme.
 □ While appreciating Sona's ranking, Dr. Alphonse, suggested having benchmarks set by Sona College for itself and not worry much about ranking or comparison with other institutions, as he felt that Sona should compete with itself.
 □ He suggested that Sona could have its own targets and work towards achieving them every year. The benchmarks may be raised annually after a review of the achievements.
 □ Dr. Koushik also highlighted other awards won by Sona like IIIE award and SIIP awards.
 □ The department heads presented their respective departmentachievements.
 □ It was recorded that Dr. J. Akilandeswari has been selected in the panel of

Perused & Approved

for the 3-crore worth research proposals sent under various schemes.

International Educators and Administrators Seminar in USA.

scholars recommended for Fulbright-Nehru Scholarship to attend an

The members appreciated Sona for the positive response of approval from DST

D. APPROVAL OF THE BUDGET

Item No.D1 to D6

To peruse and approve the budget allocation and Utilization

- □ The budget utilization for the year 2014-15 was discussed and the un-audited budget allocations and utilization for the year 2015-16 and budget for 2016-17 were discussed and approved.
 □ The continuation of the services of the auditors Ms R. Srivatsan and Co.,
- □ The continuation of the services of the auditors Ms R. Srivatsan and Co., Chartered Accountants and Ms Astral Consulting Ltd., Coimbatore was approved for 2016-17.

Perused & Approved

E. APPROVAL OF THE PERSPECTIVE PLAN

Item No.E1

To peruse and approve the perspective plan of the institution for

further development

- ☐ The perspective plan for the next decade envisioning the setting up of a private university and aiming for world-class education and research through reputed international collaborations was well received by the members.
 - Dr. Alphonse suggested tying up with foreign universities for viable short-term courses rather than programmes with extended periods of time for which government approval was mandatory.
- He also suggested offering a diploma course on Life Skills and Employability Skills to include the broad areas of personal skills, employability skills and coping mechanisms. Elaborating on this, he added that the governing body may approve the teaching of soft- skills and employability-skills in three streams:
 - a) <u>For Regular UG Students of Sona College</u>: The topics to be given by Dr. Alphonse could be merged with those in the Soft Skills and Aptitude (SSA) courses which has been developed recently for implementation from 2016-17 onwards under Sona Autonomous Curricula 2015-R.
 - b) For Regular Diploma Students of Thiagarajar Polytechnic: This would strengthen the

courses already being offered by the polytechnic for soft- skills and employability.

c) <u>For Outside Participants (as a Continuing Education Course)</u>: This would be a 160-hr diploma course on Soft-Skills and Employability-Skills for students of other colleges.

☐ Dr. Alphonse also offered to organise a workshop for the soft-skills faculty and English faculty of both the colleges and to provide guidance to the soft-skills team of Dr. Anita in teaching the course effectively.

☐ In view of the declining number of faculty taking up BEC, it was stated that the high fees charged for it was the main discouraging factor. Addressing this situation, Mr. Thyagu announced that from 2016 onwards, 100% fee reimbursement would be considered for faculty passing the examination with distinction, 50% reimbursement for those passing with merit and 25% for those getting a pass. This was approved by all the members.

Perused & Approved

F. ADMISSIONS

Item No.F1 to F3

To peruse and approve the admissions

□ The student admission status for 2015-16 was discussed. It is observed that the admission through counselling may be improved. To improve PG admissions, Vice Chairman Mr. Chocko, suggested having weekend classes as an effective way to attract industry people in the neighboring regions. Chairman Valliappa suggested making an analysis on this before thinking about its implementation.

Perused & Recorded

G. INFRASTRUCTURE

To peruse and approve the infrastructures

The progress made in the construction of buildings and modernization of

laboratories, general amenities were presented and approved. The members were informed that the plan for the University Administrative block has been approved by the Town and Country Planning Authorities and that the construction would start during the academic year 2016-17. ☐ Mr. Chocko suggested the idea of introducing RFID system to track library books. Mr. Thyagu encouraged the ECE Department to come out with a viable technology for this, suggesting that if it was cost effective, it may also be used for annual stock-checking. Perused & Recorded H. FACULTY/STAFF Item No.H1 to H3 To peruse and approve the faculty recruitment The faculty norms, faculty who left the institution and new faculty who were recruited during 2015-16 were discussed. ☐ Mr. Gurudatt elaborated on the parameters considered for the staff appraisal and stated that system was being fine-tuned every year to make it less ambiguous and thus more reliable. Perused & Approved I. REVIEW OF AUTONOMOUS STATUS To peruse and review the autonomous status and Item No.I1 to I5 accreditation status ☐ Sona Regulations-2015 and the CBCS were discussed. ☐ Dr. Koushik informed the members that the two-year NBA-accreditation in the Tier-II format for the four UG programmes BE-CSE, BTech-IT, BE-ECE, and BE- Civil expired on 30-6-2016 and that the college had applied afresh for reaccreditation in the Tier-I format. NBA's response was awaited. He also informed the members that the NBA have awarded three UG programmes, namely BE-Mech, BE-EEE and BTech-FT, two-year provisional accreditation from 01.07.2016 to 30.06.2018. Chairman Sri. Valliappa asserted that participation in sports should be made

compulsory and suggested that this be included as a one-credit course.

☐ Dr. Alphonse suggested the introduction of other courses like life skills,
community service and entrepreneurship skills, all together of around 20 credits,
as compulsory courses in the first year. In response it was stated that students
were involved in leaning all of these skills, but that it was left to the option of
interested students.
☐ Dr. Alphonse's would be discussed in greater detail by the senior administrators
and the management and appropriate action would be taken. For now, it was
decided to introduce sports as a compulsory course during the first year from
2016-17 onwards.
☐ He also suggested that each department should be more empowered in
academics teaching, evaluation, attendance, discipline etc. Departments should
have autonomy even to decide the OD permissions for students.
☐ The Chairman suggested including members from Hostel and Sports in the Anti-
Ragging Committee. Dr. Alphonse advised taking serious action on students
involved in ragging without showing any mercy whatsoever. He also suggested
appointing a full-time counsellor to deal with students and even a few faculty who
needed special counselling.
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Perused & Recorded

J. COLLABORATION INITIATIVES WITH INDUSTRY

industry

Industry collaborations involving different departments were presented. In accordance with the Chairman's suggestion, the year of signing the MOUs with industry was also included to indicate the life of the collaborative initiatives.

Also with regard to his suggestion to evaluate performance in the implementation of MOUs with industry, it was suggested that the faculty appraisal which already includes marks for industry interaction may be considered as an aspect of HODs' performance to evaluate the extent and success of MOU implementation. This would be considered during the revamping of thestaff appraisal system.

Perused & Approved

K. RESEARCH AND DEVELOPMENT

Item No.K1 to K3

To peruse and review R&D work

 □ The research and development activities of different departments were presented. □ The members felt that continuing education programmes and consultancy services offered by the departments should be improved with regard to the number of programmes and the revenue generated. The Chairman called for a separate meeting to discuss this topic in detail.
☐ Vice-Chairman Mr. Thyagu suggested that the consultancy works done by Sona is to be publicised through the website, Facebook, etc.
□ Dr. Alphonse suggested that each department should frame quality objectives to commit themselves for publications, consultancy, research funding etc. and periodic reviews should see how well these commitments are fulfilled. In response it was mentioned that the Sona-QMS had department-level quality objectives which are already addressing these points.
Perused & Recorded ENTREPRENEURSHIP DEVELOPMENT CELL
To peruse and review entrepreneurship
☐ Mr. Thyagu suggested that each department should start a social media team, e.g. Twitter team <i>led by students</i> to generate greater publicity for the Sona incubation centre. He added that a start-up committee can also be formed.

Perused & Approved

NCC, NSS, Sports, Other Extra-Curricular Activities, Hostels

Item No. M1 to N1

☐ The extra-curricular activities and the functioning of the hostelswere reviewed by the members.

Perused & Approved

O. STUDENTS

Item No. O1 to O4

Alumni Association and Student Performance

- Vice-Chairman, Mr. Thyagu, suggested that each department should display posters about their student achievements at prominent places in the vicinity of the department.
- Mr. Chocko encouraged strengthening the alumni cell in each Department. He
 also announced that a cash award of Rs. 50,000/- would be given to
 departments that enrolled 90% or more of their total alumni.
- With regard to placement, he emphasised that the performance must be stated
 the way NBA calculates placement performance, i.e. on the basis of the strength
 of the whole batch of students rather than on the basis of those interested or
 eligible for placement.

Recorded

Sonaversity, Professional Societies and Sona-CSRI

- The members reviewed all of the items related to membership in and activities conducted by professional societies.
- It was felt that the performance of Sonaversity needed to be reviewed separately for coming up with strategies to improve its work range and revenue generation.

Perused & Approved

S. ANY OTHER ITEMS

Item No.S1-S2

To Peruse and approve the following additional points

- The Chairman asked to arrange a meeting with heads at the earliest for discussion on how to improve the extent of and revenue generation through consultancy and other extension activities.
- It was decided that the next meeting may be held during last week of January 2017 in Bangalore.

The meeting came to an end at 1:45 PM after the Principal's formal vote of thanks to all attendees.

Perused & Approved

MINUTES OF ACADEMIC COUNCIL MEETING

Sona College of Technology, Salem - 636 005

(An Autonomous Institution)

Seventh Academic Council Meeting

Date: 10.8.2017

Minutes of the Meeting:

The Seventh Academic Council meeting was held on Friday 28th July 2017 at10a.m in the MBA Conference Hall.

The Chairman of the Academic Council, Dr. M.Usha, Principal, briefed the history of the college right from its inception and presented the recent achievements by Sona College of Technology (SCT) and the details regarding various Research centres in the college.

The Member Secretary of the Academic Council, Dr.R.Shivakumar, presented the Academic activities for UG and PG programmes under Choice Based Credit System. He also presented the agenda for the seventh Academic Council meeting to the members.

The members discussed and endorsed all the items as listed below:

- Approval for amendments in 2015R and 2015 Regulations for all UG Programmes on the following areas in the regulation.
- (a) Industrial Training, Internship and Online courses for students.
- (b) Assessment Procedures Tests and Examinations.
- (c) Semester abroad program for students.
- 2. Approval for amendments in assessment procedures—Tests and Examinations under 2014 Regulations for all UG Programmes.
 - 3. Approval for all BOS meeting minutes pertaining to curriculum and syllabi under 2014, 2015 and 2015R Regulations of all UG Programmes and PG Programmes under 2015 Regulation.
 - 4. Approval of proposed MBA Regulations 2017.
- 5. Approval for (2013-2017) batch students End semester results, passed by respective boards.





6. Approval for start of Diploma and Certificate courses for all UG and PG students.

The following points were discussed and approved by the Academic Council.

(1). For all UG Programmes under Regulations 2015 and 2015R.

- As per the clause 6.5.1 and 6.5.2 of B.E/B.Tech Regulations 2015R and also 2015, a student earning three credits in industrial training (or) internship shall be permitted to drop one professional elective/open elective. The Academic Council suggested that the Department Consultative Committees (DCCs) concerned shall evaluate the industrial training of students.
- The assessment for Industrial training/ Practical training / Internships/
 Online courses/ Industry based courses will be evaluated as stated in Clause 12.2.4 for 2015 and 2015R Regulations.
- Students who undergo 4, 8 or 12 weeks of Online courses can earn 1, 2 or 3 credits respectively for courses in NPTEL, AICTE- SWAYAM etc.
 Alternatively, students who undergo 15, 30 or 45 hours of Online courses can earn 1, 2 or 3 credits respectively. However, the assessment of Online courses will be similar to assessment procedures for Internships/Industrial training stated in Clause 12.2.4.
- The revised assessment pattern for all UG programmes under 2015 and 2015R Regulations was approved as follows: The pattern includes three CIE Tests (each 1 ½ hours), three online tests in line with concerned CIE tests, marks for attendance percentage in the class and assignments 1 and 2. Their weightages are 6+6+6+7+5+5+5 = 40 marks respectively.
- All the three CIE tests are mandatory for internal mark calculation. A final retest (after CIE Test3) shall be conducted for any six courses (out of three CIE tests)in which the students did not appear due to genuine reasons like Medical leave / Co-curricular and Extra-curricular activities representing the college at State/National/ International level events/ any other special permission authorized by their HOD and or Principal. Those students who have to improve their CIE marks on any one course are also permitted to attend the retest with prior permission from the concerned head of the



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department. The above category students should compulsorily submit the retest permission letter (approved by HOD) to COE office within 7 days after the completion of concerned CIE test cycle.

- The assessment procedure for theory course with laboratory component will be as follows: There shall be three CIE tests: the first two tests (each 50 marks) will be evaluated as theory exams and the third test (maximum mark 50) will be evaluated as laboratory component. The internal mark will be calculated as stated in Clause 12.1. The SEE for this course will be evaluated similar to a theory course as stated in Clause 12.4.1.
- For providing international exposure for meritorious students, MoUs will be signed by Sona College of Technology with foreign universities. Students can utilize this opportunity to do courses of one or two semesters in foreign universities and the transfer of credits for courses done in foreign universities will be facilitated.
- Each department of Sona college of Technology shall offer a diploma/ certificate courses (domain related) for UG and PG students for their career skill enhancement. Diplomas and certificates shall be used under the seal of Sona College of Technology. (As per UGC Revised Guidelines for Autonomous colleges 2017, Clause 18.i).

(2). For all UG Programmes under Regulations 2014.

- The revised assessment pattern for all UG programmes under 2014 was approved as follows: The pattern includes three CIE Tests (each 1 ½ hours), three online tests in line with concerned CIE tests, for attendance percentage in the class and assignments 1 and 2. Their weightages are 6+6+6+7+5+5+5 = 40 marks respectively.
- All the three CIE tests are mandatory for internal mark calculation. A final
 retest (after CIE Test3) shall be conducted for any six courses (out of three
 CIE tests)in which the students did not appear due to genuine reasons like
 Medical leave / Co-curricular and Extra-curricular activities representing
 the college at State/National/ International level events/ any other special
 permission authorized by their HOD and or Principal. Those students who

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have to improve their CIE marks on any one course are also permitted to attend the retest with prior permission from the head of the department concerned. The above category students should compulsorily submit the retest permission letter (approved by HOD) to COE office within 7 days after the completion of respective CIE test cycle.

(3). Approval of minutes of BOS Meetings conducted during June 2017.

The Academic Council approved all the BOS meeting minutes pertaining to curriculum and syllabi under 2014, 2015 and 2015R Regulations of all UG Programmes and PG Programmes under 2015 Regulation.

(4). Approval of MBA Regulation 2017.

- The Academic Council approved the proposed MBA Regulation 2017 which incorporates Trimester pattern for students admitted from 2017 onwards.
- The Trimester regulation includes 6 trimesters with Professional core, Professional Elective and Open Elective courses in the curriculum subjected to a maximum of 105 credits. The assessment weightage will be 70 marks for Continuous Internal Evaluation (CIE) and 30 marks for Trimester End Examination (TEE).

Apart from approval of all the above points, the following points were discussed during the meeting.

- Our Chairman Thiru. C.Valliappa requested the industrial expert members to provide industrial training / Internships to the students.
- The University nominees Dr.D.Mohanlal, Dr.A.Elango and Dr.V.Kumar suggested to frame a Course outcome / Guidelines for evaluation and award of credits for Industrial training undergone by students.
- Vice chairman of SCT Thiru. Chocko Valliappa informed about the LCS (
 Lecture capturing system) and its effective implementation in Teaching
 Learning process in all departments.
- Dr. A.K.Pattabiraman, Head, Academy Interface program, Tata Consultancy Services, Chennai suggested to start twinning program as it is blooming nowadays.



- Mr.V.Jagadeesh , Vice President, Bosch group, Bengaluru had a detailed Skype interaction with the council members. He discussed about the challenges faced by the industry and the mechanization required for quality and safety in industry.
- Vice chairman of SCT Thiru. Thyagu Valliappa elaborated on how industry welcomes Internships at present.
- The University nominees and expert members appreciated the introduction of Trimester pattern for MBA Programme.
- Thiru. Chocko Valliappa informed about the AICTE Adjunct faculty scheme for appointing resource persons from Industry in AICTE approved Technical Institutions. By this scheme, the strength of adjunct faculty shall not exceed 20% of the sanctioned strength of faculty at any time.
- Dr. G.N.Krishnamurthy, Principal, B.N.M Institute of Technology, Bangalore and Dr.A.K.Pattabiraman suggested to frame the curriculum and syllabus based on upcoming technology, so that it can sustain for the next 5-10 years.
- The council members also discussed about the semester end examination results of ODD and EVEN semester 2016-17 and suggested to improve the results percentage in future.

The meeting came to an end by 1.00p.m.

Dr R Shiyakumar

Member Secretary/Academic Council

Dr.M.Usha

Principal & Chairperson/ Academic Council

Dr. M. USHA, M.E.,Ph.D., PRINCIPAL, SONA COLLEGE OF TECHNOLOGY, SALEM - 636 005.

Sona College of Technology, Salem 636 005.

(An Autonomous Institution)

Seventh Academic Council Meeting - Attendance-28/07/2017

Invited Distinguished Experts

Shri. C. Valliappa, Chairman, Sona Groups of Educational Institutions
 Shri. Chocko Valliappa, Vice-Chairman, Sona Groups of Educational Institutions
 Shri. Thyagu Valliappa, Vice-Chairman, Sona Groups of Educational Institutions
 Academic Council Members

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3.	Professor - MCA	Dr.M.B.Sampath Dr.T.Padma	Shart
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		Mr.V.Jagadeesh	By skype Fultrant
	Aca g all Ind Ma Ber Rot	g all Iros, Chennat. Indian Machine Tools	Academy Interface Program, g all TCS, Chennai. Indian Machine Tools Manufacturers Association, Bengaluru. Robert Bosch Ltd, Mr.V.Jagadeesh

25.	Three nominees of Anna University,	Professor and Head Department of Mechanical Engineering, Refrigeration and Air conditioning division, Anna University, Chennai-25.	Dr.D.Mohanlal	Adul
26.	Chennai	Professor and Head Department of Civil Engineering Thanthai Periyar Government Institute of Technology, Vellore- 632 002.	Dr.V.Kumar	Quend
27.		Principal Incharge, Professor and Head Department of Mechanical Engineering Alagappa Chettiar College of Engineering and Technology, Karaikudi – 630 003.	Dr.A.Elango	May 28/3
28	Placement	Advisor, Placement	Prof.B.Saravanen	B. 2-1
29.	Training	Training Cell Head	Dr. S. Anita	8 Yang
30.	Member Secretary/ Academic Council (Nominated by the Principal)	Professor – EEE	Dr.R.Shivakumar	M. vals
1.	Immediate past- Member Secretary/ Academic Council	Professor – CSE	Dr.A.C.Kaladevi	dr. 28 4.3
2.	QMS Coordinator	Associate Professor – IT	Dr.J.Jeba Emilyn	Asn
	Secretary /Academ	nu.	W	
		ic council Chairpe	rson / Academic Council	& Principal
()	Dr.R.Shivakumar)		(Dr.M.Usha)	

MINUTES OF ANTI-RAGGING COMMITTEE MEETING

SONA COLLEGE OF TECHNOLOGY, SALEM ANTI RAGGING COMMITTEE

MINUTES OF THE MEETING

13.4.2017

The second meeting of the anti-ragging committee for the academic year 2016 – 2017 was conducted on 12.4.2017 @ 4.30 pm in the Office conference hall. The following members were present:

- 1. Dr. M. Usha / Principal
- 2. Dr. T. Maruthavanan / Chemistry
- 3. Mr. V. Meenakshi sundharam / General Manager, Hostels
- 4. Dr. V. Balasubramanian / Physics
- 5. Prof. A. Sivapragasam / Mechanical
- 6. Dr. A. Murugesan / Civil
- 7. Dr. S. Sakthivel / CSE
- 8. Prof. A. Theetchenya / CSE
- 9. Mr. V. Venugopal / AO, SCT
- 10.Mr. C. Rajavignesh / Sr. Physical Director
- 11.Mr. Chinnadurai / FT
- 12. Mr. S.R. Keshav / I year Student
- 13. Dr. Anitha / Parent / I year student

In the meeting the following points were discussed.

- The members of the anti ragging committee were briefed regarding the faculty interaction with hostel inmates and the surprise visits during lunch hours in the classrooms and corridors of first year block and MBA block to know about any untold incidents in the respective blocks.
- The deployment of one security person from the college during night hours to monitor student's safety as one of the anti ragging measures taken by institution has been explained to the members of the committee.
- The Security Officer was instructed that his security guards should monitor the student's movement inside the campus and inform to the Principal about any act of ragging if taking place.
- 4. It was informed to the members that surprise visits have been made to the boys hostels in the month of March and April 2017 by the first year HOD along with member secretary, anti-ragging committee and senior faculty members to monitor the activities of the students.
- All the faculties, Residential Tutors and other hostel authorities were requested to ensure that there are no unwanted incidents related to ragging happening inside the hostel and safe guard all the first year students.

- 6. The member secretary informed to the members that there is no grievance mail received so far from the first students regarding ragging and the general manager hostels also informed that there is no any untold incidence happened inside the hostels in this academic year.
- 7. The Principal informed that a letter (Ref:D.O. No. 1-15/2009 (ARC) pt. III dated 17th March 2017) has been received from the UGC regarding the steps to be taken by the Institutions against ragging and the availability of four short films and a documentary film to counsel students on ill effects of ragging in UGC website. She insisted to the member secretary to display those videos to the students to curbing the menace of ragging inside the campus.
- 8. The Principal and Chairman of Anti Ragging Committee appreciated that so far no ragging has taken place inside the premises in the past and requested all the members of the committee to ensure that it continues in this year also.

The meeting came to end by 5.30 pm.

T. MmThan 13/04/17

Dr. T. Maruthavanan

Member Secretary, Anti ragging Committee

Dr. M. UshaChairman / Anti ragging Committee

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MINUTES OF WOMEN EMPOWERMENT CELL MEETING

SONA COLLEGE OF TECHNOLOGY

[Autonomous]

WOMEN EMPOWERMENT COMMITTEE

Date: 06.07.2016

Women Empowerment Committee meeting was held on 06.07.2016 to discuss the safety measures of girl students and calendar events for the academic year 2016-2017 in the Mechanical conference IIall at 3:00 p.m. to 4:00 p.m.

Members Present in the Meeting:

- · Chief Coordinator
- · Coordinators
- Department wise Counselors
- Students Office Bearers

Minutes of the meeting

Report

- Discussed the nominations of the students for the selection of office bearers through interview.
- Discussed the year planner for the academic year 2016 2017.
- Counselors were asked to identify the girl students those who require counseling.
- Discussed with the department wise counselors of women safety team, if there were any
 major issues faced by female students in the department and the remedy measures taken
 to rectify them.
- Counselors suggested that a workshop related to cancer awareness be conducted for girls.

No major issues were reported by the Safety team.

COORDINATOR Ms. A. Suhana Nafais & Ms. A.P Jaya Krishna CHIEF COORDINATOR
Dr.M.Remiga

MINUTES OF GRIEVANCE REDRESSAL COMMITTEE MEETING

Sona College of Technology, Salem Grievance Appeal Meeting

Minutes of the Meeting

A meeting for the following staff members was conducted on 19.8.2017 at 4.30 pm in the CV Raman Hall.

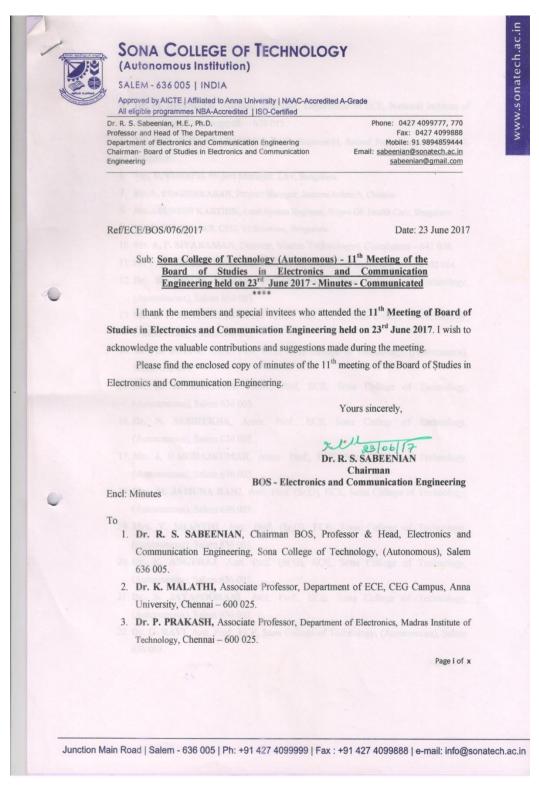
S.No	Category	Name	Designation
1	Chairman	Dr. M. Usha	Principal
2	Member Secretary & Convener	Dr. M. Renuga	HOD - First Year
3		Dr. G. M. Kadhar Nawaz	Director - MCA
4		Dr. M. Selvaraj	Joint Director - MBA
5		Dr. D. Senthil Kumar	HOD - MECH
6		Dr. R. Malathy	HOD - CIVIL
7		Dr. K. R. Kashwan	HOD - ECE
8	Members	Dr. S.B. Sathiyabhama	HOD - CSE
9		Dr. J. Akhilandeshwari	HOD - IT
10		Dr. G. Gunasekaran	HOD - FT
11		Dr. S. Padma	HOD - EEE
12		Dr. C. Shanthi	HOD - Sciences
13		Prof. S. Jayabharathi	HOD – Mathematics

- · There was no grievance recorded.
- The members discussed the formation of a committee for the benefit of SC /ST students and staff.
- It was decided to make Dr. C. Shanthi as the Member Secretary & Convener of the committee. (\$ < | \$T Committee)

The meeting came to an end at 5.00 pm

Member Secretary & Convener

MINUTES OF BOS MEETING - DEPARTMENT OF ECE



4. **Dr. M. BHASKAR,** Associate Professor, Department of ECE, National Institute of Technology, Tiruchirappalli – 620 015.

- 5. **Mr. K.N. SURYANARAYANA RAO,** Engineer-H, Retired Project Engineer, IRNSS, Bangalore.
- 6. **Mr. V. VINOTH**, Project Manager, L&T, Bengaluru.
- 7. **Mr. N. PRABHAKARAN**, Project Manager, Jasmine Infotech, Chennai.
- 8. Mr. ARUNESH KARTHIK, Lead System Engineer, Wipro GE Health Care, Bengaluru.
- 9. Mr. SUNIL KUMAR, CEO, VI Solutions, Bengaluru.
- 10. Mr. A. P. SIVARAMAN, Director, Sinetec Technologies, Coimbatore 641 038.
- 11. Dr. V. RAJESHKUMAR, Asst. Professor (Sr.), ECE, VIT University, Vellore 632 014.
- 12. **Dr. R. VINOD KUMAR**, Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 13. **Mr. J. P. SENTHIL KUMAR**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 14. **Mrs. S. DEEPA**, Assoc. Prof, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 15. **Dr. K. R. KAVITHA**, Assoc. Prof, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 16. **Dr. N. SASIREKHA**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 17. **Mr. J. HARIRAJKUMAR**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 18. **Mrs. M. JAMUNA RANI**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 19. **Mrs. T. SHANTHI**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 20. **Dr. K. ANGURAJ**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 21. **Dr. S. JAYAPOORANI**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 22. **Dr. G. RAVI**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 23. Mrs. P. PRIYA, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 24. **Mrs. S. VIJAYALAKSHMI**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.

- 25. **Mrs. K. MANJU**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 26. **Mrs. M. SENTHIL VADIVU**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.

Special invitees:

- 27. THE CHAIRMAN, Sona Group of Institutions, Salem 636 005.
- 28. THE VICE CHAIRMEN, Sona Group of Institutions, Salem 636 005.
- 29. **THE DIRECTOR ACADEMICS**, Sona College of Technology, (Autonomous), Salem 636 005.
- 30. **THE DIRECTOR INDUSTRY CONNECT,** Sona College of Technology, (Autonomous), Salem 636 005.
- 31. THE PRINCIPAL, Sona College of Technology, (Autonomous), Salem 636 005.
- 32. **Dr. S. RADJAREJESRI**, Controller of Examinations (COE), Sona College of Technology, (Autonomous), Salem 636 005.
- 33. **Dr. R. SHIVAKUMAR,** Member Secretary, Academic Council, Sona College of Technology, (Autonomous), Salem 636 005.
- 34. THE VICE-CHANCELLOR, Anna University, Chennai, only for intimation.
- 35. **THE REGISTRAR**, Anna University, Chennai, only for intimation.

SONA COLLEGE OF TECHNOLOGY, (AUTONOMOUS), SALEM-636005

MINUTES OF THE 11th MEETING OF THE BOARD OF STUDIES IN ELECTRONICS AND COMMUNICATION ENGINEERING HELD ON 23rd June 2017, AT 11.00 A.M.

BOS MEMBERS PRESENT:

S.NO	NAME	DESIGNATION
1.	Dr. R. S. Sabeenian	Chairman BOS in ECE / Professor & HOD/ ECE, SCT
2.	Dr. K. Malathi	Associate Professor Department of ECE, CEG, Campus, Anna University, Chennai - 600025
3.	Dr. P. Prakash	Associate Professor Department of Electronics, Madras Institute of Technology, Chennai - 600044
4.	Dr. M. Bhaskar	Associate Professor, Department of ECE, National Institute of Technology, Tiruchirappalli -620015.
5.	Mr. K.N. Suryanarayana Rao	Engineer-H, Retired Project Director, IRNSS, Bangalore
6.	Mr. A. P. Sivaraman	Director Sinetec Technologies, Coimbatore.
7.	Dr. V. Rajeshkumar	Assistant Professor(Sr.) School of SENSE VIT University, Vellore – 632 014.
8.	Dr. R. Vinod Kumar	Professor
9.	Mr. J. P. Senthil Kumar	Assoc. Professor
10.	Mrs. S. Deepa	Assoc. Professor
11.	Dr. K. R. Kavitha	Assoc. Professor
12.	Dr. N. Sasirekha	Assoc. Professor
13.	Mr. J. Harirajkumar	Assoc. Professor
14.	Mrs. M. Jamuna Rani	Assistant Professor (Sr. G)
15.	Mrs. T. Shanthi	Assistant Professor (Sr. G)
16.	Dr. K. Anguraj	Assistant Professor (Sr. G)
17.	Dr. S. Jayapoorani	Asst. Professor
18.	Dr. G. Ravi	Asst. Professor
19.	Mrs. P. Priya	Asst. Professor

20.	Mrs. S. Vijayalakshmi	Asst. Professor
21.	Mrs. K. Manju	Asst. Professor
22.	Mrs. M. Senthil Vadivu	Asst. Professor
23.	Ms. B. Kaviya	Student
24.	Ms. G. Anusuya	Student
25.	Ms. M. Priyanka	Student
26.	Ms. S. Soundharya	Student
27.	Ms. G. Devi Meenakshi	Student
28.	Mr. M. S. Nithish	Student
29.	Mr. S. Sriram	Student

OTHER SPECIAL INVITEES PRESENT

S.NO	NAME	DESIGNATION
1.	Dr. V. Jayaprakash	Director Industry Connect, SCT
2.	Dr. M. Usha	Principal, SCT
3.	Dr. S. Radjarejesri	Controller of Examinations (COE), SCT
4.	Dr. R. Shivakumar	Member Secretary, Academic Council, SCT
5.	Mr. S. Vijay Peter	Assistant Professor (Sr. G), Department of Mathematics, SCT
6.	Ms. K. Deiwakumari	Assistant Professor, Department of Mathematics, SCT
7.	Mr. B. Venkatesh	Assistant Professor, Department of Mathematics, SCT

- 11.1 CONSIDERED THE CONFIRMATION OF THE MINUTES OF THE 10th MEETING HELD ON 02.06.2016
 - **RESOLVED** to confirm the minutes of the 10th meeting of the Board of Studies in Electronics and Communication Engineering held on 02.06.2016 that was communicated to the members.
- AN AMENDMENT HAS BEEN RECOMMENDED IN THE CURRICULUM OF B.E ECE REGULATION 2015. MINOR CHANGES IN THE CURRICULUM OF B.E. ECE REGULATION 2015R HAS BEEN CONSIDERED (3rd to 8th SEMESTER). IN REGULATION 2015 THE SYLLABUS OF COURSES OF 5th AND 6th HAS BEEN APPROVED BY THE BOARD. IN REGULATION 2015R THE SYLLABUS OF 3rd and 4th SEMESTER (INCLUDING LIST OF EXPERIMENTS AND SOFTWARE TOOLS FOR THE LABORATORY COURSE) HAS BEEN APPROVED BY THE BOARD.

RESOLVED to note that the curriculum committees consisting of the following members have deliberated and formulated curriculum and syllabus for **B.E. ELECTRONICS AND COMMUNICATION ENGINEERING** (3rd to 8th Semester):

- (i) Dr. R. S. SABEENIAN, Chairman BOS, Professor & Head, Electronics and Communication Engineering, Sona College of Technology, (Autonomous), Salem 636 005.
- (ii) **Dr. R. VINOD KUMAR**, Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (iii) Mr. J. P. SENTHIL KUMAR, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (iv) Mrs. S. DEEPA, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (v) **Dr. K. R. KAVITHA**, Assoc. Prof, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (vi) Dr. N. SASIREKHA, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (vii) Mr. J. HARIRAJKUMAR, Assoc. Prof., ECE, Sona College of Technology,

- (Autonomous), Salem 636 005.
- (viii) Mrs. M. JAMUNA RANI, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (ix) Mrs. T. SHANTHI, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (x) **Dr. K. ANGURAJ**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xi) **Dr. S. JAYAPOORANI**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xii) Dr. G. RAVI, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xiii) Mrs. P. PRIYA, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xiv) Mrs. S. VIJAYALAKSHMI, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xv) Mrs. K. MANJU, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xvi) Mrs. M. SENTHIL VADIVU, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- 11.2.1 The course Analog Communication Systems in the fifth semester for the regulation 2015, transmitters and receivers for AM and FM may be included.
- 11.2.2 The course Transmission Lines and Waveguides in the fifth semester for the regulation 2015, introduction to planar transmission line and microstrip antenna may be included.
- 11.2.3 The course Digital Signal Processing in the fifth semester for the regulation 2015, TMS320C55 processor may be included.
- 11.2.4 The course Microprocessor & Microcontroller in the fifth semester for the regulation 2015, latest peripherals and buses may be included in unit 4 or 5.
- 11.2.5 All the basic level laboratory courses may be completed within fifth semester.
- 11.2.6 The course Microprocessor & Microcontroller Laboratory in the fifth semester for the regulation 2015, the list of experiments may start with experiments related to 8086 and end with microcontroller interfacing. There may be 5 experiments related to microprocessor, 5 related to microcontroller and 2 or 3 related to interfacing, with a total of 12 or 13 experiments.

- 11.2.7 The course Antenna and Wave Propagation in the sixth semester regulation 2015, each unit tittle has to be checked may be renamed as broadband antennas, frequency dependent antennas etc.,
- 11.2.8 The course Antenna and Wave Propagation in the sixth semester regulation 2015, the book authored by Balanis may be brought under list of text books and the book authored by K. D. Prasad may be brought under references.
- 11.2.9 The course Quantitative Aptitude & Reasoning in the sixth semester regulation 2015 can be given as a one credit course for each semester from 3rd to 6th of Regulation 2015R.
- 11.2.10 A one credit course on "Comprehensive Review" may be introduced in 7th Semester of Regulation 2015R.
- 11.2.11 The course, Digital Communication in the sixth semester regulation 2015, measurements experiments may be included.
- 11.2.12 The course Communication Laboratory in the sixth semester regulation 2015, kit experiments are also to be included in the syllabus.
- 11.2.13 The course Mini Project in the sixth semester regulation 2015, the Projects related to Embedded Systems vendor specific boards may be removed.
- 11.2.14 The professional elective in the VIII semester of regulation 2015 and 2015R may be shifted to previous semesters thereby enabling the students to do internship/project in the industry.
- 11.2.15 The course Disaster Management may be removed from seventh semester and may be brought in professional elective list as one management related course is sufficient in curriculum in the regulation 2015 and 2015R.
- 11.2.16 The professional electives related to Communication, VLSI Design, etc., may be in a group instead of random distribution.
- 11.2.17 Among the list of professional electives in the regulation 2015R, the courses Optical Communication, VLSI Design, Embedded Systems may be shifted to core.
- 11.2.18 Transforms are already available in the course Signals and Systems, hence it may be removed in the course Transforms and Linear Algebra in regulation 2015R.
- 11.2.19 The course Measurements and Instrumentation may be shifted from core to professional electives list. It may be replaced with Digital Signal Processing in the regulation 2015R.

- 11.2.20 The Course Digital Signal Processing Lab may be shifted from V to semester IV.
- 11.2.21 The Course Digital Communication and Communication Systems lab may be shifted from VI to V semester.
- 11.2.22 The course VLSI Design may be moved to fifth semester in the Regulation 2015R.
- 11.2.23 The title for the course Smart Structures and Sensors in open elective may be changed in the regulation 2015R.
- 11.2.24 The title for the course Medical Electronics in open elective may be replaced as Biomedical Instrumentation and Measurements in the regulation 2015R.
- 11.2.25 Latest edition books to be updated for the all courses.
- 11.2.26 Review and comments were received from industry experts for the courses.

 The details of which is given below.
 - Signals and System by Mr. Prabakaran, Project Manager, Jasmin Infotech, Chennai.
 - Digital System Design by Mr. Vinoth, Project Manager, L&T, Bengaluru.
 - Telecommunication Switching Network by Mr. M. Karthikeyan, Lead Engineer, HCL, Chennai.
 - Computer Networks by Mr. M. Madhankumar, Senior Analyst, Scope well, Chennai.
 - Satellite Communication by Mr. K. P. Harsha Prasanna, CEO, Salieabs Electronics Engineers LLP, Salem.

- Digital Communication by Mr. R. Arunkumar, Technical Lead, HP Private Ltd.
- Communication Laboratory by Mr. R. Arunkumar, Technical Lead, HP Private Ltd.
- Engineering Electromagnetics by Dr. Simarjeet S. Saini, CTO Nanolytix.
- Antenna & Wave Propagation by Mr. V. Anbalagan, SDE(CRM), BSNL, Salem
- Analog Communication Systems by Mr. A. P. Sivaraman, Director, Sinetec Technologies, Coimbatore.
- Communication Laboratory by Mr. A. P. Sivaraman, Director, Sinetec Technologies, Coimbatore.
- C++ with Data Structures by Mr. Naveen Karthikeyan, Technical Lead, Intel Technology India, PVT, Bengaluru.
- C++ Laboratory by Mr. Naveen Karthikeyan, Technical Lead, Intel Technology India, PVT, Bengaluru.
- Quantitative Aptitude and Reasoning by Mr Prabhu Manikandan, Director,
 Live Wire, Salem
- Microprocessor and Microcontrollers by Ms. M.S. Jayachandra Aradhya, Chief Executive, Silicon Micro systems.

Dr. R. S. Sabeenian Chairman

BOS - Electronics and Communication Engineering

Page x of x

THE 11th MEETING OF THE BOARD OF STUDIES IN ELECTRONICS AND COMMUNICATION ENGINEERING

Action Taken

Based on the input from expert committee members the following actions have been taken.

- 11.2.1 In the fifth semester of the regulation 2015, transmitters and receivers for AM and FM has been included in the course Analog Communication Systems.
- 11.2.2The course Transmission Lines and Waveguides is found to have a lengthy syllabus. So the suggested topic planar transmission lines and micro strip antenna theory can be included in the Antenna and Wave Propagation.
- 11.2.3. The topic TMS320C55 processor in the course Digital Signal Processing is to be included in the next curriculum.
- 11.2.4 In the course Microprocessor & Microcontroller present in the fifth semester of regulation 2015, latest peripherals and buses are to be included in unit 4 or 5.
- 11.2.5 All the basic level laboratory courses completed within fifth semester itself.
- 11.2.6 For the course, Microprocessor & Microcontroller Laboratory in the fifth semester of regulation 2015, the list of experiments are found to be jammed up with Microprocessor and Microcontroller. For the sake of clarity, 5 experiments related to microprocessor, 5 related to microcontroller and 2 or 3 related to interfacing has been classified.
- 11.2.7 For the course, Antenna and Wave Propagation in the sixth semester, Regulation 2015, each unit title has to be checked and renamed as wide band antennas, antenna measurements and radio wave propagation.
- 11.2.8 For the course Antenna and Wave Propagation in the sixth semester Regulation 2015, the book Antenna Theory: Analysis and Design by Constantine A. Balanis has been brought under list of text books and the book authored by Antenna and Wave Propagation by K. D. Prasad has been brought under references.
- 11.2.9The Course, Quantitative Aptitude & Reasoning in the sixth semester of Regulation 2015 has been removed and the syllabus has been equally divided and introduced as a one credit courses termed as "Soft skills and Aptitude I/II/III/IV" for each semester from 3 to 6 in regulation 2015R.
- 11.2.10 A one credit course on "Comprehensive Review" introduced in the 7th Semester of Regulation 2015R.
- 11.2.11 For the course, Digital Communication in the sixth semester regulation 2015, measurement experiments are also included.

- 11.2.12 For the course Communication Laboratory in the sixth semester regulation 2015, instead of kit experiments in digital communication discrete components based experiments have been amended.
- 11.2.13 For the course Mini Project in the sixth semester regulation 2015, the projects related to embedded systems carried out on vendor specific boards have been removed.
- 11.2.14 The professional electives in the VIII semester regulation 2015 and 2015R have been shifted to VII semesters thereby paving way for students to do internship/projects in the industry during the VIII Semester.
- 11.2.15 The course Disaster Management may be removed from seventh semester and brought in professional elective list as one management related course is sufficient in curriculum in the regulation 2015 and 2015 R.
- 11.2.16 The professional electives are grouped into different verticals (bucketing system). More than 25 elective subjects have been included in the list.
- 11.2.17 In the regulation 2015R, the courses Optical and Fiber Communication, VLSI Design, Embedded Systems have been shifted from professional elective to core.
- 11.2.18 The syllabus of Transforms and Linear Algebra in regulation 2015R has been updated.
- 11.2.19 The course Measurements and Instrumentation may be shifted from core to professional electives list. It may be replaced with Digital Signal Processing in the regulation 2015R.
- 11.2.20 The course Digital Signal Processing Lab has been shifted from V to semester IV.
- 11.2.21 The course Digital Communication and Communication Systems lab shifted from VI to V semester.
- 11.2.22 The course VLSI Design has been introduced to fifth semester in the regulation 2015R.
- 11.2.23 In the open elective for course Smart Structures and Sensors, the course title modified in the regulation 2015R as "Sensors and Smart Structures Technologies".
- 11.2.24 In the open elective for the course Medical Electronics, the course tittle replaced as "Biomedical Instrumentation and Measurements" in the regulation 2015R.
- 11.2.25 Latest edition of books updated for the all courses.
- 11.2.26 The Syllabus for 2015 Regulation (V Sem and VI Sem), 2015R Regulation (III Sem and IV Sem) updated based on the comments received from industry experts for the courses.



SONA COLLEGE OF TECHNOLOGY (Autonomous), SALEM – 636 005. THE BOARD OF STUDIES IN ELECTRONICS AND COMMUNICATION ENGINEERING

23rd JUNE 2017, AT 11.00 A.M.

11th BOS - ECE- MEETING – ATTENDANCE SHEET

MEMBERS PRESENT:

Date: 23.06.2017

S.NO	NAME	DESIGNATION	SIGNATURE
1.	Dr. R. S. Sabeenian	Professor & Head	23/05/19
2.	Dr. R. Vinod Kumar	Professor	29k 16117
3.	Mr. J. P. Senthil Kumar	Asso. Professor	To Centilhay
4.	Ms. S. Deepa	Asso. Professor	C. DROLLA
5.	Dr. K. R. Kavitha	Asso. Professor	1 de
6.	Ms. N. Sasirekha	Asso. Professor	N. Oh 22/6/17
7.	Mr. J. Harirajkumar	Asso. Professor	VE ei
8.	Ms. M. Jamuna Rani	Assistant Professor (Sr.G)	MI
9.	Ms. T. Shanthi	Assistant Professor (Sr.G)	F. 8ha. 19 6
10.	Dr. K. Anguraj	Assistant Professor (Sr.G)	N. Mary.
11.	Dr. S. Jayapoorani	Asst. Professor	Call
12.	Dr. G. Ravi	Asst. Professor	cin !
13.	Ms. P. Priya	Asst. Professor	pp41423/6/17
14.	Ms. S. Vijayalakshmi	Asst. Professor	gm-
15.	Ms. K. Manju	Asst. Professor	00,9
16.	Ms. M. Senthil Vadivu	Asst. Professor	MI. Bradi-
17.	Dr. M. Bhaskar	Associate Professor, Department of ECE, National Institute of Technology, Tiruchirappalli -620015.	M. 8n 3/6/2
18.	Dr. P. Prakash	Associate Professor Department of Electronics, Madras Institute of Technology, Chennai - 600044	Mo23/1/18
19.	Dr. K. Malath	Associate Professor Department of ECE, CEG, Campus, Anna University, Chennai - 600025	1. Hala 1. 33/6/17.

	20.	Mr. K. N. Suryanarayana Rao	Engineer-H, Retired Project Director, IRNSS, Bengaluru	Els_
	21.	Mr. V. Vinoth	Project Manager L&T, Bengaluru	
	22.	Mr. N. Prabhakaran	Project Manager Jasmine Infotech, Chennai	
	23.	Mr. Arunesh Karthik	Lead System Engineer Wipro GE Health Care, Bengaluru	
	24.	Mr. A. P. Sivaraman	Director Sinetec Technologies, Coimbatore.	(Joseph)
	25.	Mr. Sunil Kumar	CEO VI Solutions, Bengaluru	
	26.	Dr. V. Rajeshkumar	Assistant Professor (Sr.) School of SENSE VIT University, Vellore – 632 014.	Dr.
	27.	Ms. B. Kaviya	Student	Karige.
	28.	Ms. G. Anusuya	Student	14.4
0	29.	Ms. M. Priyanka	Student	Priyanka.
	30.	Ms. S. Soundharya	Student	6. Soloh
	31.	Ms. G. Devi Meenakshi	Student	6 Dus mer
	32.	Mr. M. S. Nithish	Student	Hotelhin
	33.	Mr. S. Sriram	Student	S. Shring

9 23/06/19 Dr. R. S. Sabeenian

CHAIRMAN/ BOS ECE

SONA COLLEGE OF TECHNOLOGY (AUTONOMOUS), SALEM – 636005 DEPARTMENT OF ECE

BE – ELECTRONICS AND COMMUNICATION ENGINEERING - REGULATION 2015(REVISED) (CBCS BASED)

CURRICULUM

SEMESTER - III

S. No.	Course Code	Course Name	Ηοι	ırs /	Weel	(
			L	Т	Р	М	С
Theory	•		<u> </u>	<u>.</u>	ı	<u> </u>	
1.		Transforms and Linear Algebra	3	2	0	100	4
2.		Electronic Devices	3	0	0	100	3
3.		Network Analysis and Synthesis	3	2	0	100	4
4.		Digital System Design	3	0	0	100	3
5.		Signals and Systems	3	2	0	100	4
		Seminar	0	0	1	0	0
		Library	0	0	1	0	0
Practic	al		,			ı	
6.		Electronic Devices Laboratory	0	0	2	100	1
7.		Digital Laboratory	0	0	2	100	1
8.		English Laboratory	0	0	4	100	2
9.		Soft Skills and Aptitude - I	0	0	2	100	1
То	tal		15	6	12	900	23

SEMESTER - IV

S. No.	Course	Course Name	Ηοι	ırs /	Wee	k	
	Code		L	Т	Р	М	С
Theory	1		l	<u> </u>		L	
1.		Probability and Stochastic Processes	3	2	0	100	4
2.		Engineering Electromagnetics	3	2	0	100	4
3.		Electronic Circuits	3	0	0	100	3
4.		Linear Integrated Circuits	3	0	0	100	3
5.		Digital Signal Processing	3	2	0	100	4
6.		Analog Communication Systems	3	0	0	100	3
		Library	0	0	1	0	0
		Seminar	0	0	2	0	0
Practic	al						
7.		Linear Integrated Circuits Laboratory	0	0	2	100	1
8.		Electronic Circuits and Simulation Laboratory	0	0	2	100	1
9.		Digital Signal Processing Laboratory	0	0	2	100	1
10.		Soft Skills and Aptitude - II	0	0	2	100	1
To	otal		18	6	11	1000	25

SEMESTER - V

S. No.	Course Code	Course Name	Hours	s / Wee	ek		
			L	Т	Р	M	С
Theory	/						
1.		Digital Communication	3	0	0	100	3
2.		Transmission Lines and Waveguides	3	2	0	100	4
3.		Microprocessors and Microcontroller	3	0	0	100	3
4.		C++ with Data Structures	3	0	0	100	3
5.		Automatic Control Systems	3	2	0	100	4
6.		VLSI Design	3	0	0	100	3
	-	Library	0	0	1	0	0
	-	Seminar	0	0	2	0	0
Praction	cal			<u> </u>			
7.		Microprocessors and Microcontroller Laboratory	0	0	2	100	1
8.		VLSI Laboratory	0	0	2	100	1
9.		Communication Laboratory	0	0	4	100	2
10.		Soft Skills and Aptitude - III	0	0	2	100	1
		Total	18	4	13	1000	25

<u>SEMESTER - VI</u>

S. No.	Course	Course Name	Hou	rs / W	eek		
	Code		L	Т	Р	M	С
Theory	У						
1.		Antenna and Wave Propagation	3	0	0	100	3
2.		Digital Image Processing	3	0	0	100	3
3.		Professional Ethics and Human Values	3	0	0	100	3
4.		Professional Elective - I	3	0	0	100	3
5.		Professional Elective - II	3	0	0	100	3
6.		Open Elective - I	3	0	0	100	3
		Library	0	0	1	0	0
		Group Discussion	0	0	2	0	0
		Internship / Industrial Training	0	0	0	0	0
Praction	cal		<u> </u>				
7.		Digital Image Processing Laboratory	0	0	2	100	1
8.		C++ Laboratory	0	0	4	100	2
9.		Soft Skills and Aptitude - IV	0	0	2	100	1
10.		*Mini Project	0	0	4	100	2
		Total	18	0	15	1000	24

Note-1: Students are allowed to undergo 2,4 or 6 weeks of internship/ industrial training at research organizations / reputed academic institutions / reputed industries between semesters 6 and 7 and semesters 7 and 8 during the summer/winter vacation and can earn 1,2 or 3 credits respectively in lieu of industrial training. The industry/organization is to be selected with the approval of the Department Consultative Committee. The internship has to be taken on a continuous basis for the periods mentioned and in the same organization or organizations that are similar to those of previous internship(s).

A student earning three credits in internship shall be permitted to drop one professional elective/open elective. However, if the number of credits earned is only 1 or 2, these credits shall not be considered for dropping a course or for classification of the degree, but will be indicated in the mark sheet.

Note-2: *List of mini projects is given at the end of document.

SEMESTER - VII

S. No.	Course Code	Course Name	Hours / Week						
			L	Т	Р	М	С		
Theory				I		l			
1.		Embedded Systems	3	0	0	100	3		
2.		Optical Fiber Communication	3	0	0	100	3		
3.		Microwave Engineering	3	0	0	100	3		
4.		Professional Elective - III	3	0	0	100	3		
5.		Professional Elective - IV	3	0	0	100	3		
6.		Open Elective - II	3	0	0	100	3		
		Library	0	0	1	0	0		
		Internship / Industrial Training	0	0	0	0	0		
Practic	al								
7.		Microwave and Optical Laboratory	0	0	4	100	2		
8.		Embedded Systems Laboratory	0	0	4	100	2		
9.		Comprehensive Review	0	0	2	100	1		
		Total	18	0	11	900	23		

Note-3: Students are allowed to undergo 2,4 or 6 weeks of internship/ industrial training at research organizations / reputed academic institutions / reputed industries between semesters 6 and 7 and semesters 7 and 8 during the summer/winter vacation and can earn 1,2 or 3 credits respectively in lieu of industrial training. The industry/organization is to be selected with the approval of the Department Consultative Committee. The internship has to be taken on a continuous basis for the periods mentioned and in the same organization or organizations that are similar to those of previous internship(s).

A student earning three credits in internship shall be permitted to drop one professional elective/open elective. However, if the number of credits earned is only 1 or 2, these credits shall not be considered for dropping a course or for classification of the degree, but will be indicated in the mark sheet.

SEMESTER - VIII

S. No.	Course Code	Course Name	Hour	s / Wee	k		
			L	Т	Р	М	С
Practic	al						<u> </u>
1.		Major Project	0	0	20	100	10
2.		Internship / Industrial Training	0	0	0	0	0
		Total	0	0	20	100	10

Note-4: Students are allowed to undergo 2,4 or 6 weeks of internship/ industrial training at research organizations / reputed academic institutions / reputed industries between semesters 6 and 7 and semesters 7 and 8 during the summer/winter vacation and can earn 1,2 or 3 credits respectively in lieu of industrial training. The industry/organization is to be selected with the approval of the Department Consultative Committee. The internship has to be taken on a continuous basis for the periods mentioned and in the same organization or organizations that are similar to those of previous internship(s).

A student earning three credits in internship shall be permitted to drop one professional elective/open elective. However, if the number of credits earned is only 1 or 2, these credits shall not be considered for dropping a course or for classification of the degree, but will be indicated in the mark sheet

LIST OF PROFESSIONAL ELECTIVES

S. No.	Course	Course Name	Ηοι	ırs / V	Veek		
	Code		L	Т	Р	М	С
1.		Satellite Communication	3	0	0	100	3
2.		Wireless Communication	3	0	0	100	3
3.		Cellular and Mobile Communication	3	0	0	100	3
4.		Cellular Technologies and Applications	3	0	0	100	3
5.		Modern Radio Communication	3	0	0	100	3
6.		Statistical Theory of Communication	3	0	0	100	3
7.		High Speed Network	3	0	0	100	3
8.		Computer Networks	3	0	0	100	3
9.		Wireless Networks	3	0	0	100	3
10.		Network Security	3	0	0	100	3
11.		Advanced Digital Signal Processing	3	0	0	100	3
12.		Speech Processing	3	0	0	100	3
13.		Artificial Neural Network	3	0	0	100	3
14.		Pattern Recognition	3	0	0	100	3
15.		Artificial Intelligence	3	0	0	100	3
16.		Advanced Microprocessors	3	0	0	100	3
17.		FPGA based System Design	3	0	0	100	3
18.		Computer Architecture	3	0	0	100	3
19.		Measurement and Instrumentation	3	0	0	100	3
20.		Bio-Medical Instrumentation	3	0	0	100	3
21.		Virtual Instrumentation	3	0	0	100	3
22.		RADAR Engineering	3	0	0	100	3
23.		RF MEMS	3	0	0	100	3
24.		Electromagnetic Interference and Electromagnetic Compatibility	3	0	0	100	3
25.		Antennas for Wireless Application	3	0	0	100	3
26.		Nano Electronics	3	0	0	100	3

27	Disaster Ma	nagement			3	0	0	100	3
28	Numerical Computation		for	Engineering	3	0	0	100	3

LIST OF OPEN ELECTIVE

S. No.	Course	Course Name	Hou	rs / V	Veek		
	Code		L	Т	Р	М	С
1.		Electronics and Microprocessors -	3	0	0	100	3
2.		Embedded and Real Time Systems	3	0	0	100	3
3.		Analog and Digital Communication	3	0	0	100	3
4.		Signal and Image Processing	3	0	0	100	3
5.		Sensors and Smart Structures Technologies	3	0	0	100	3
6.		Biomedical Instrumentation and Measurements	3	0	0	100	3
7.		Multimedia Communication	3	0	0	100	3

Note-5: A minimum of 25 students must register for the open elective to be offered in current semester. The registration must be done by last working day of previous semester. Status of registration and open elective offerings will be communicated to the Academic Council and COE before beginning of the current semester.

LIST OF MINI PROJECTS

S. No.	Mini Project* - the following topics but not limited to
1.	Electrical Circuits
2.	Digital System Design
3.	Digital Signal Processing
4.	Digital Image Processing
5.	Communication Systems and Networks
6.	Wireless Networks
7.	Microprocessor & Embedded Systems
8.	Analog System Design
9.	VLSI Design
10.	RF Design
11.	IOT based Engineering Solutions
12.	Embedded Engineering Solutions

Note-6: Students must choose any one Mini Project out of above listed areas or similar areas of interest to industry / engineering solutions.

MINUTES OF R & D MEETING

Ref. No.: PRL/R&D /DST/2017-18/421

Date:23.08.2017

To

All Directors, Principal, Dean (R&D), HoDs and R&D Centre Heads

Minutes of Centre Heads & R&D Coordinators Meeting held on 21st August

R&D Review Meeting with Principal, Dean (R&D), Centre Heads and R&D coordinators was held on 18.08.2017 (Monday) at Mechanical Conference Hall of Sona College of Technology between 11.00 am and 12.00 pm. The meeting was headed by our Principal and Dean(R&D).

Members Present

- 1. Dr. M. Usha Principal
- 2. Dr.S.Chandraseker Dean (R&D)
- 3. Dr. B. Sathiyabhama, HOD/CSE
- 4. Dr.Senthil Kumar HoD/Mech
- 5. Dr.M.Selvaraj Joint Director/ MBA
- 6. Dr.J.SenthilKumar Professor/IT
- 7. Dr.S.Suresh Professor / CIVIL
- 8. Dr.M.Umahankar-Assistant Professor/MCA
- 9. Dr.D.Raja Associate Professor /FT
- 10.Dr.G.Gunasekaran HoD/FT
- 11.Dr.R.Mohan Professor / MECH
- 12. Dr. C. Saravanan Assistant Professor/Science
- 13. Dr. M. Raja Assistant Professor/Science
- 14.Dr.T.Maruthavanan Assistant Professor/Science
- 15. Dr. A. Jagadeeshwarn Assistant Professor/EEE
- 16. Prof. J.P. Senthilkumar Assistant Professor/ECE
- 17. Dr. Arulmozhiyal Professor/ EEE
- 18.Dr.J.Jayanthi Professor / CSE
- 19. Dr. C. Prakash Professor /FT
- 20. G. Madhupriya Research Analyst

Dr. M.Usha , Principal welcomed all and briefed about the meeting.

- > Dr. M.Usha Principal, discussed about the Global Initiative of Academic Network(GIAN).
- > Dr.S.Chandraseker Dean (R&D) discussed about the recent call for proposals from DST and other funding agencies applicable for both students and faculty.
- > Dr.S.Chandrasekar Dean(R&D asked the HoDs to display the student scheme circulars on the department notice board.
- > Principal listed out the various funding Schemes for students and asked the HoDs to take necessary action immediately.

- > Principal also informed the staff incharge to display the student Scheme circulars in the TVs.
- > Dr.S.Chandraseker informed that college is applying for DST accreditation and hence asked the centre heads to provide necessary R&D data at the earliest.
- Dr.S.Chandrasekar informed about income tax benefits to industries from SIRO recognition and asked the centre heads to use the tax exemption benefits.
- Principal insisted to apply for INSPIRE Scheme in all departments
- Principal also informed the HoDs about ATAL incubation centre application from our college and asked the HoDs to inform this to students and to get novel incubation ideas.
- > Dr. B. Sathiyabhama, CSE Department to apply for INSPIRE in August
- > Dr.Arulmozhiyal, EEE dept to apply for INSPIRE scheme in September
- > Dr.SenthilKumar, Mech Dept to apply for INSPIRE in October
- Dr.J.SenthilKumar, IT dept to apply of INSPIRE scheme in November
- > Prof.J.P.Senthilkumar, ECE dept to apply of INSPIRE scheme in December
- Principal to identify the proposal writers and discuss the content writing and business plan
- Principal informed the Heads about the ISRO SHAR exhibition to be organized at Sona in the month of October and asked Dr.Raja from Science Department to prepare necessary arrangements for the same.
- All R&D Co-ordinators and center heads are requested to come for the next meeting with the list of proposals from concerned department for various funding Schemes.

With this, the meeting came to an end and next R&D coordinators meeting is scheduled on third week of September.

Dean(R&D) 23/8/17

Principal

Copy to

- 1. Chairman/Vice-Chairman
- 2. All Directors
- 3. All HoDs/Centre Heads/Staff members
- 4. MIS & File

MINUTES OF LIBRARY COMMITTEE MEETING

Minutes of the meeting

The meeting of the library committee was held on 08.02.2017 at 10.30 A.M. at the MBA library to decide on the disposal of 5000 old books that kept in CMG Control room (Previous CMG Room) for over two years.

The following members were present:-

Mr.N. Venkatesan	Mr. M. Soundararajan
Mr. G. Karthikeyan	Mrs. M. Saraswathi
Mr. K. Mani	Mrs. Rajasri Sen Jaiswal
Mrs. P. Priya	Mrs. K. Bhuvaneswari
Mrs. S. Theetchenya	Mrs. R. Santhy
Ms. I. Janani	Mr. M. Muthukrishnan

- The committee has decided to disposes old book in the following way:
- The 5000 books may be written off after following the procedures given below.
- The Books may be displayed and a nominal price of 50/-Rs per book may be collected from the buyers. This may be kept for sale for a week in MCA Library.
- We will publicize the sale of old books through sonatimes, all notice boards and circulars to HOD's of Sona.
- The Management may decide once a year regarding the disposal of outdated and very old scrabbled books after annual audit. During auditing if found any soiled books, they may be written off with the approval of management,
- In case any books required for the Department library use it can be retained and rest of the books handed over to students not more than two books.
- The meeting came to an end at 11.30 a.m.

Member Secretary & Convener N.Sreedharan, Librarian.

Copy to

Principal

All Members

File

Sona College of Technology, (Autonomous), Salem Sona Central Library

Date: 05.01.2018

To,

All Library Staff Members for Information.

N.Sreedharan, Librarian.

Students Speakers Forum / Sona – LIKE Joint Meeting Minutes (4th Jan 2018)

The Members suggested that the SSF can have short events like discussion of Case Studies, short films, Tech Talks, and Quiz programs.

Members also suggested that we should encourage and receive ideas from student for the speakers forum. The coordinators will choose the best among the suggestions for presentation and guidelines for evaluating the best performances / rewards may be framed.

It is planned to conduct the SSF on Weekly Basics and Wednesday is suggested by the members to host the event between **4:30 to 5:30 P.M.**

All the events of SSF will be recorded and made available in Sona Library Database for the internal telecast.

SSF program may be inaugurated during third week of January. It was suggested our Vice Chairman Mr.Thyagu Vallippa may be invited to inaugurate the program on a day convenient to him.

Sona - LIKE Minutes of the meeting:

A Status report of Sona LIKE was distributed to the members.

In the earlier meeting a suggestion was made to have Posters of famous Industrialists.

Accordingly Posters have been fixed on walls. They were appreciated by all members. Acrylic Board of SONA-LIKE is also mounted on the wall adjacent to the posters.

The members suggested the printing of a Brochure on Sona-LIKE and also to have it on Library Website.

The members were informed that Biographies of famous Industrialists have been ordered and are expected to arrive soon.

Vendors have been identified for furnishing the Lounge with sofa sets, Coffee Table and Book shelves etc...

All the members appreciated the work carried so far to make Sona LIKE one of excellence..

The meeting ended with a vote of thinks given by Mr. Sreedharan, Librarian.



- N.Sreedharan, Librarian presents the salient points of discussion he had with Vice Chairman Mr.Thyagu Valliappa on 23.10.2017 about the line of action to be taken.
- He has approved the display of the posters of Major Industrialist and Entrepreneurs.
- The poster will contain a portrait of the Industrialist and his work.
- Brochure will contain a description of the Sona LIKE Lounge and the contents there in.
- A detailed design of the lounge will be made with collaboration of Civil Department. A time flow diagram for the execution of the lounge for Sona LIKE.
- We invited Mr.Ganapathi as a special Invitee from Civil. He is very enthusiastic of the project and he had agreed to give the detail design. He also suggested portraits of great people like Albert Einstein, Charlee Chaplin, Apple CEO Steve Job, Instrumental Music etc.

M. Velpin