ASSOCIATION OF STUDENTS OF COMPUTER SCIENCE FOR INFORMATION INTERCHANGE

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OUR VISION

To be acclaimed internationally for excellence in teaching and research in Computer Science & Engineering, and in fostering a culture of creativity and innovation to responsibly harness state-of-the-art technologies for societal needs.
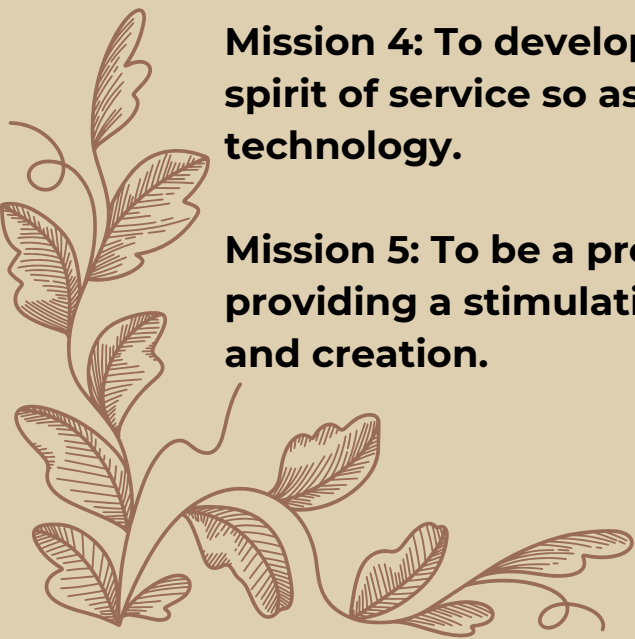

OUR MISSION

Mission 1: To assist students in developing a strong foundation in Computer Science and Engineering by providing analytical, computational thinking and problem solving skills.

Mission 2: To inculcate entrepreneurial skills to develop solutions and products for interdisciplinary problems by cultivating curiosity, team spirit and spirit of innovation.

Mission 3: To provide opportunities for students to acquire knowledge of state-of-the-art in Computer Science and Engineering through industry internships, collaborative projects, and global exchange programmes with Institutions of international repute.

Mission 4: To develop life-long learning, ethics, moral values and spirit of service so as to contribute to the society through technology.

Mission 5: To be a premier research-intensive department by providing a stimulating environment for knowledge discovery and creation.

CLUB ACTIVITIES

GOOGLE DEVELOPERS STUDENTS CLUB 2022-23 INDUCTION [20.10.2022]

VENUE: SUDHAMANI HALL, AB1

This program introduced the audience to a world beyond software development, which included VR/XR, algorithmic art, advanced game development, distributed computing and more.

AN EVENING WITH THE FUTURE- ARTIFICIAL INTELLIGENCE AND DIGITAL HEALTH CARE [21.02.2023]

Venue: Rendezvous Hall, Taj Vivanta, Race Course Road, Coimbatore
Club: ACM Student Chapter
Office Bearer(s): Bindu K R

This was an academic discourse by experts from Ulster university (multi-campus public university located in Northern Ireland).

FDP/WORKSHOPS CONDUCTED

A workshop on behalf of Network Systems and Security TAG from A.S.C was conducted on
January 29, 2022, where 50 people participated. The title of the workshop was "Delving into Cyber Security Incidents". Mr. Aravind P Jayan included methods to identify, mitigate, prevent and recover from some of the biggest cyber security threats. The workshop helped the students gain knowledge in both the theoretical and practical application of security, and understand the practices one needs to implement to enhance protection

SOFTWARE ENGINEERING WORKSHOP [12.04.2023]

Number of Participants: 362
Resource Person(s): Vignesh Kumar (Senior Software Engineer, Bosch Global Software Technologies, Coimbatore) and Keerthana.K (Member Technical Staff 2, VMWare, Bangalore)
Faculty Coordinators: Dr. B.A.Sabarish and Software Engineering Team

Topics covered were on continuous integration and continuous deployment tools (Jira and Jenkins). Workshop covered on the industrial perspective of the tools, and demonstrations were given for better understanding.

Dr. D. Venkataraman, the NSS (National Service Scheme) coordinator, recently attended the Orientation Programme conducted at Don Bosco Retreat Centre in Yercaud, Salem, from March 24, 2023, to March 25, 2023.

NEW FACULTY ORIENTATION AND DEMONSTRATION SESSION (FDP)
[27.04.2023, 28.04.2023]

Venue: A302 - Seminar Hall
Number of Participants: 17
Speakers:
Day 1: Dr. PN Kumar, Dr. P Bagavathi Sivakumar, Mrs. K Nalinadevi, Dr. M Senthilkumar
Day 2: Dr. Balamurugan S, Dr. Nikhil kothurkar, Dr. Rameshkumar K, Dr. Udhaya Bhaskar Reddy Ragula, Dr. Palanisamy T
The first day consisted of an orientation session for new faculty which involved a teaching pedagogy, QP setting and evaluation tools as well as an overview on Outcome Based Education (OBE). Day 2 was the demonstration session.
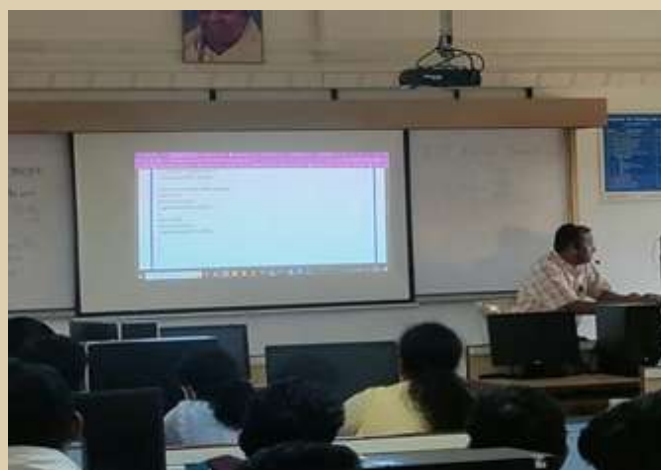

BLUETOOTH LOW ENERGY (BLE) HANDS-ON WORKSHOP
[28.04.2023]

Venue: Computer Lab, D304, Second Floor, AB3
Number of Participants: 70
Resource Person(s): Mr Sankar Karuppannan (Director, Mathiimigal Technologies, Bengaluru)
Faculty Coordinators: Dr V Ananthanarayanan, Dr Vijayakumar Sundar, Dr. N Radhika, Ms. P Malathi

Workshop website:
https://sites.google.com/view/asc-blews

WORKSHOP ON SUCCESSFUL FULL STACK JAVA DEVELOPER [21.02.2023]

Club: ACM Student Chapter
Office Bearers: Bindu K R, C Arunkumar, Dr. Aarthi R
Student Coordinators: Praveen Kumar M, Kishore S, Karthik M
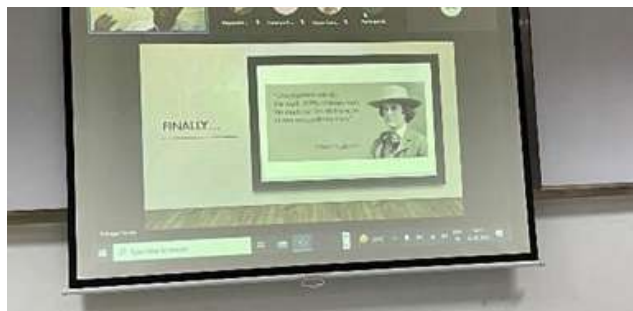Resource Person: Mr. Mohan Chandrasekharan, Cognizant

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WORKSHOP ON THE EMERGENCE OF AI [23.02.2023]

Club   : ACM Student Chapter
Office Bearer(s) : Bindu K R, Dr. Aarthi R, Dr. V Ananthanarayanan
Coordinator(s)   : Praveen Kumar M, Kishore S, Karthik M
Resource Person   : Mr Tathagat Varma, VP Strategy at
                    Walmart Global Tech India

STUDENT ACHIEVEMENTS

XPLORA-WINHACK 2023 (XWH-23) WOMEN HACKATHON

Team 1 (Krishnendu B Menon, Anjana TK, Ashwini K , Bindu K.R. [mentor]) won the first prize for GPS-Enabled Destination Tracking System.

Team 2 (Shreenithi S, Sri Vaishnavi J V, Adwaita) won the consolation prize for Unified Ticket Management System.

The following students Abhinav Surendran, Abhirami N and Deeraj Dayakaran from the M.Tech 2021-'23 batch presented papers at the Second International Conference on Artificial Intelligence, Computational Electronics and Communication Systems (AICECS 2023), organized by the Dept. of Electronics and Communications Engineering, Manipal Institute of Technology under the titles "Assessing Vulnerabilities Using Web Application Scanner","Structured Query Language Injection Attack - Assessing Vulnerabilities and Prevention Measure", "ATM Theft Detection based on Human Behaviour Analysis" and "Assessing Vulnerabilities Using Web Application Scanner" respectively.

Certificate of Merit

This is to certify that Mr./Mrs. _____ **Leonal Robin (Team Duck duo)** _____ of **Amrita School of Engineering (ACE), Coimbatore** has secured **First** place in the _____ **Web Wars** _____ event organised by Pragyan, the International Techno - Managerial Organization of National Institute of Technology, Tiruchirappalli, held from March 23rd to March 26th, 2023.

Pragyan, NIT Trichy, applauds the participant's enthusiastic fervour and believes that this will pave the path for their enormous contributions to society in the future.

Leonal Robin from B.Tech 2021-2025 batch (Team Duck duo) secured first place in the Web Wars event organized by Pragyan, the International Techno-Managerial Organization of National Institute of Technology, Tiruchirappalli held from March 23rd to March 26th, 2023.

Students from B.Tech 2021-2025 batch Vinayak VS, Cheruvu Sahithee Vaibhav and Komatireddy Adithya Reddy have accomplished a significant milestone during their recent internship at EinSicht Technologies. They displayed exceptional skills and dedication throughout their one-month tenure.

B.Tech CSE (2019-'23) student Sriram S provided outstanding contributions as an intern in the research project "An Edge-based Cyber-Physical System for Smart Polyhouse Solar Drying of Agricultural Food Products" funded by Sensing Solutions University Collaboration Program (SSUP) of Sony Semiconductor Solutions.

AMRITA VISHWA VIDYAPEETHAM

SSUP

This is to certify

Sriram S

for his outstanding contribution as an intern in the research project
"An Edge-based Cyber-Physical System for Smart Polyhouse Solar Drying of Agricultural Food Products"
Funded by Sensing Solutions University collaboration Program (SSUP) of Sony Semiconductor Solutions Corporation

Dr. Vidhya Balasubramanian
Principal - Amrita School Of Computing

Dr. Gowtham Ramesh
Principal Investigator

Anil Sasidharan
Person-in-Charge, SSUP India,
Sony India Software Centre

Mitsuru Tanabe
Deputy General Manager,
Technology Planning Dept., InSect,

ArIES IIT ROORKEE

CERTIFICATE OF EXCELLENCE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Potu Tejaswi

In recognition of the excellent initiatives and outstanding contributions made during the Ecell Ambassador program conducted in the month of May.

We appreciate his/her commitment towards work and we wish him/her a successful future.

02-05-2023
Date

Coincent

Director

B.Tech CSE (2021-'25) student Potu Tejaswi received certification as an E-Cell Ambassador from Coincent, an initiative by IIT Roorkee.

ANOKHA 2K23

-THE GRAND CELEBRATION OF INNOVATION

ANOKHA 2023 BLOCKCHAIN WORKSHOP [27.04.2023]

Venue: Sandeepani Hall, AB2
Number of Participants: 200+
Speakers: Anand Thavaseelan (Managing Director, ATCI Coimbatore), Bala Shanmuganathan (Associate Director, ATCI Coimbatore), Sandeep Rajagopal (Innovation Lead/Manager, ATCI Coimbatore) and Neena Mary Cyriac (Senior Principal Consultant - Learning and Head of Infosys Blockchain Academy, Infosys)
Faculty Coordinators: Dr. N Harini, Dr. N Radhika, Ms. P Malathi
Student Coordinator: Pradeep Kumar

Anoka '23 Ragnarök – VALORANT Tournament [27th April to 29th April, 2023]

Venue: IT Lab 1,Ground Floor, AB1, Amrita School of Computing

A 3-day Valorant Tournament was conducted as part of Anokha 2023. In total, 24 teams with 120 participants registered for the event, with two teams ultimately securing the prize money.

Anoka '23 Code Father [28th April to 29th April, 2023]

Venue: Embedded Computing Lab, C304, First and Third Floor, AB2, Amrita School of Computing
Faculty Coordinators(s): Cr. N. Radhika, Ms. Malathy
Student Coordinator(s): Harish Sankaranarayanan S

Ninety-six participants were organized into 32 teams, each comprising three members, tasked with unraveling clues within a given storyline to reach the story's main conclusion. They then tested their typing speed using Keyboard Ninja and Monkey Type exercises. In the afternoon, teams received an introduction to Sigma and were tasked with creatively replicating the AUMS Login page, accompanied by a 2-minute video presentation explaining their work and demonstrating their demo. Only the top 20 teams, determined by marks, progressed to the next day's round.

The following day, only the top 20 teams participated in the first round, which included hardware challenges such as crossword puzzles, part identification, and PC assembly and disassembly, with marks awarded based on task accuracy. The afternoon session focused on UI design using HTML, CSS, and JS, with teams engaging in hands-on coding demonstrations.

ANOKHA 2K23

-THE GRAND CELEBRATION OF INNOVATION

ANOKA '23 RAGNARÖK – CLASH ROYALE [28TH APRIL TO 29TH APRIL, 2023]

Clans Used: Anokha1, Anokha2, Anokha3
The Anokha 2023 Clash Royale Tournament saw a total of 128 participants registered, with 126 attending. 2 winners were announced at the end of the tournament.

ANOKA '23 ENIGMA EXPEDITION [28TH APRIL, 2023]

Venue: A103, Ground Floor, AB3, Amrita School of Computing
Total Number of Participants registered: 66
Total Number of Participants attended: 50

The event was conducted in 5 rounds where the participants had an opportunity to gain knowledge about various technical and non-technical topics, while also thoroughly enjoying themselves. They learnt about ciphers and Enigma. They acquired the ability to speak spontaneously and learnt time management. They experienced a unique event which tested their holistic skills and ability to think on their feet. They witnessed a day of learning and excitement.

B.Tech CSE (2021-'25) student Bharath Kumar J (Team deadcoders) secured 192nd position and a score of 2000 at the Reply Code Challenge - Teen Edition.

B.Tech CSE (2021-'25) students Hari Swaminathan M and J Karthick Prasanna (Team Hari_Karthick) secured 291st position and a score of 1600 at the Reply Code Challenge - Teen Edition.

B.Tech CSE (2020-'24) student Sathi Lakshmi Priyatha Reddy received a handball national level certification at the 51st Senior Women's National Handball Championship, Nandyal, Kurnool, Andhra Pradesh.
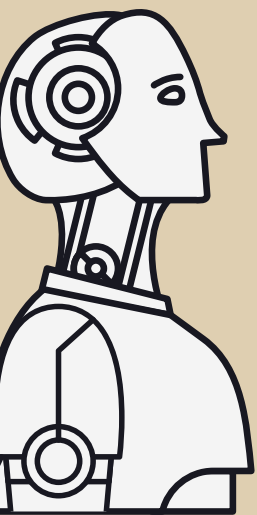
B.Tech CSE (2022-'26) student Arunkumar J secured first place in the CODEBOT event held as part of Anokha 2023.

Alagumathi M, Rahul S, Niti Raut attended the ACM India workshop on "Research Career in Computer Science" held at Indian Institute of Technology Palakkad on 18.02.2023.

B.Tech CSE (2022-'26) students N Rohan Prkash and Ritesh Koushik attended a Space Tech Summit 2023 conducted by Shastra, IIT Madras as Tier-2 delegates on Smart Mobility, Web 3 Decentralised Application using Intel AI Analytics Webinar.

FACULTY ACHIEVEMENTS

Assistant Professor, Dr. Priya Kumar became a Technical Committee Member (TPC) at the IEEE IAS 5th IEEE International Conference on Computing, Power and Communication Technologies (GUCON-2022) which was held during September 23-25, 2022, at India Habitat Centre, Lodhi Road, New Delhi, India.

Dr. G Jeya Kumar served as the resource person for the Faculty Development Programme (FDP) on conducting a project-based course with a focus on Database Management Systems (DBMS) as a case study. The FDP was organized by the Department of BCA at PSG Krishnammal College, Coimbatore, on 04.03.2023.

Professor Dr. G Jeyakumar presented a lecture on "Soft Computing Approaches for Artificial Intelligence" at the techno fest Dyuksha-2023 conducted at NSS College of Engineering, Palakkad.

OUR HEARTY CONGRATULATIONS

DR. DEEPIKA T

acquired her PhD from Amrita Vishwa Vidyapeetam for her thesis "Prediction-based Multi-Objective Optimization Framework for Energy Efficiency in Small and Medium Scale Data Centers".

DR. POOJA MISHRA

acquired her PhD from the Indian Institute of Technology, Dhanbad for her thesis "DNA Coding for Error Correction Data Storage and Image Cryptosystem".

DR. RITWIK M

acquired his PhD from Amrita Vishwa Vidyapeetam for his thesis "Towards Evolving Antigens in Antivirus Systems".

WELL DONE!

RESEARCH PUBLICATIONS

DR.KRISHANKUMAR R

>>> **Cloud vendor selection using choice models based on interactive criteria and varying attitudes of experts.**
International Journal "Expert Systems with Applications", Elsevier.

>>> **"An integrated personalized decision approach with probabilistic linguistic context for grading restaurants in India."**
Applied Soft Computing 136 (2023)

Movement Analysis of Mentally Challenged Individuals Using Cloud and Machine Learning Model.
Proceedings of Third Doctoral Symposium on Computational Intelligence . Lecture Notes in Networks and Systems, vol 479. Springer, Singapore. **<<<**

MATHEW A
RADHIKA N

MS. ABHIRAMI K

>>> Presented two papers entitled **"Ant colony Optimization for Load Balancing in Cloud Computing"** and **"Comparing the performance of Google Cloud Platform and Web Server"**

DR. KRISHANKUMAR R

>>> **Selection of IoT service provider for sustainable transport using q-rung orthopair fuzzy CRADIS and unknown weights.**
International Journal "Applied Soft Computing", Elsevier.

"The selection of appropriate Ro-Ro Vessel in the second-hand market using the WASPAS' Bonferroni approach in type 2 neutrosophic fuzzy environment ". <<<
collaborated on a paper in the International Journal "Engineering Applications of Artificial Intelligence" (Volume 117, January 2023, Article number 105531),

Prediction of Accident and Accident Severity Based on Heterogeneous Data." <<<
International Conference on Distributed Computing and Intelligent Technology. Cham: Springer Nature Switzerland, 2023.

KANDACHARAM SNEHA RAJATHILAGM B

DR. ARUNKUMAR C

>>> **"Multi-Class Classification of COVID-19 in Chest X-Ray Using Deep Convolutional Neural Networks"**
at the 4th International Conference on Data and Information Sciences, ICDIS 2022, held in Agra from May 6 to May 7, 2022.

"Cluster Ensemble Method and Convolution Neural Network Model for Predicting Mental Illness" <<<
in the EAI/Springer Innovations in Communication and Computing journal page number 151-179.

"Investigation of Binding Update Schemes in Next-Generation Internet Protocol mobility," <<<
is part of Volume 24, Issue 1-2, spanning pages 190-205.

DR.SENTHILKUMAR M

"An Optimized Reinforcement Learning-Based Routing Protocol Using Spider Monkey Optimization Algorithm." Journal of <<<
Physics: Conference Series. Vol. 2571. No. 1. IOP Publishing, 2023.

RADHIKA G RADHIKA N

DR. JEYAKUMAR G

>>> Contributed to a book chapter titled **"Modified Discrete Differential Evolution with Neighborhood Approach for Grayscale Image Enhancement."**
The chapter is part of the EAI/Springer Innovations in Communication and Computing in 2023.

Presented a paper titled **"Graph Centrality Measures for Email Networks"** at the 2nd International Conference on Next Generation Computing Systems.
The conference was organized by PSG Institute of Technology and Applied Research, Coimbatore, and took place from 17.03.2023 to 18.03.2023.

<<< ## THIRUMALA KUMAR K

HENRY A
SUJEE R

>>> **Medical Prescription Label Reading Using Computer Vision and Deep Learning.**
In Soft Computing for Problem Solving: Proceedings of the SocProS 2022 (pp. 97-108). Singapore: Springer Nature Singapore.

ViDepBot: Assist People to Tackle Depression Due to COVID Using AI Techniques.
In Proceedings of Data Analytics and Management: ICDAM 2022 (pp. 379-389). Singapore: Springer Nature Singapore.

<<< ## THOMAS J J
VENKATARAMN D

DR. SIKHA O K

>>> **"AI Based Rice Leaf Disease Identification Enhanced by Dynamic Mode Decomposition"**
in the International Journal "Engineering Applications of Artificial Intelligence"

>>> **Contributed to a book chapter titled "Content-Based Image Retrieval Using Deep Features and Hamming Distance."**
The chapter is part of the EAI/Springer Innovations in Communication and Computing in 2023.

HEZAM I M
MISHRA A R
KRISHANKUMAR R
RAVICHANDRAN K S
KAR S
PAMUCAR D S

A single-valued neutrosophic decision framework for the assessment of sustainable transport investment projects based on discrimination measures.

Management Decision, 61(2), 443-471

A Novel Integrated q-Rung Fuzzy Framework for Biomass Location Selection with No Apriori Weight Choices.

Sustainability, 15(4), 3377.

KRISHANKUMAR R
MISHRA A R
RANI P
CAVALLARO F
RAVICHANDRAN K S

ECER F
ÖGEL İ Y
KRISHANKUMAR R
TIRKOLAEE E B

The q-rung fuzzy LOPCOW-VIKOR model to assess the role of unmanned aerial vehicles for precision agriculture realization in the Agri-Food 4.0 era.

Artificial Intelligence Review, 1-34.

"Effective Link Prediction in Complex Networks Using Differential Evolution Based Extreme Gradient Boosting Algorithm"

International Conference on Advanced Network Technologies and Intelligent Computing. Cham: Springer Nature Switzerland, 2022.

UTHAYASURIYAN
AGASH
RAMYA G R
JEYAKUMAR G

KANKARIA T
KRISHNA B V
TEJA D S
DINESH D V S
SUJEE R

>>> **Impact of Pollutants on Temperature Change and Forecasting Temperature of US Cities.**
In Proceedings of Third International Conference on Sustainable Expert Systems: ICSES 2022 (pp. 71-82). Singapore: Springer Nature Singapore.

PROPOSALS ACCEPTED

PI   : Dr. Radhika N
Title   : Wireless Sensor Networks Lab
Title   : CTS- Amrita Innovative Lab Setup
Budget   : 10 Lakhs
Abstract   :The lab is equipped with various kits like smart healthcare, smart agriculture, and smart city.

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2023 NEWSLETTER ISSUE 2 IN JULY 2023

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A SPECTACLE WORTH THE WAIT!

TEAM

FACULTY COORDINATORS

DR. JEYAKUMAR G

MS. MALATHI P

MS UMA J

STUDENT TEAM

SIDDHARTH M

KEERTHANA S

SAMYUKTHA B M

NAGIREDDY SAI MAHISRI

SRAVYA DUVVURI

DHAMINI MANOJ