

# ASCII NEWSLETTER

ASSOCIATION OF STUDENTS OF COMPUTER SCIENCE FOR  
INFORMATION INTERCHANGE



BEYOND BITS  
**ASCII**

## WELCOME!!

The ASCII Club is launching the third issue of the academic year **2k17-18**. Our aim is to make this newsletter a platform for all Computer Sciences students to share on, be it news, a story, a poem or even a joke! We look forward to your contributions over the many editions to come!

## WHAT'S INSIDE THIS ISSUE:

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*Smart India Hackathon  
Achievements  
ASCII Prize Distribution  
Students Contribution*

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## 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.

## 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.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

The Computer Science & Engineering Program graduates will

**PEO1:** Strive on a global platform to pursue their professional career in Computer Science and Engineering.

**PEO2:** Contribute to product development as entrepreneurs in inter disciplinary fields of engineering and technology.

**PEO3:** Demonstrate high regard for professionalism, integrity and respect values in diverse culture, and have a concern for society and environment.

## PROGRAMME OUTCOMES (PO'S) AND PROGRAMME SPECIFIC OUTCOMES(PSO'S)

**PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2:** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3:** Design and development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4:** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6:** The engineer and society: Apply reasoning informed by the contextual knowledge to Assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7:** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.

**PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11:** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12:** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**PSO1:** Adopt Standard Practices: Ability to design and engineer, innovative, optimal and elegant computing solutions to interdisciplinary problems using standard practices, tools and technologies.

**PSO2:** Research and Innovation: Ability to learn emerging computing paradigms for research and innovation

# SMART INDIA HACKATHON - 2018

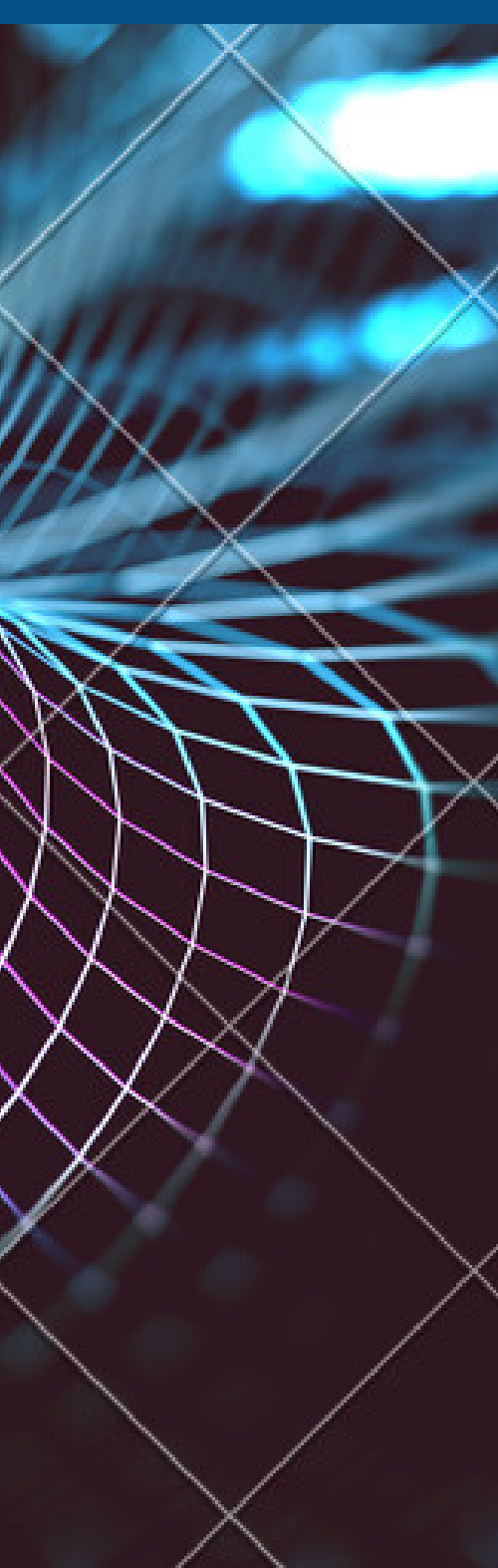


The BTech students of the Department of Computer Science & Engineering, Amrita School of Engineering, Coimbatore, have put up a stellar performance at 36-hour-long Smart India Hackathon (SIH) 2018 by winning the top prize for developing innovative digital solutions for 340 problems posted by 28 Union Ministries and 18 State Governments held from March 30-31, 2018.

Two teams from the Coimbatore campus namely Team Vision and Team Cyber\_Cena won the cash award of Rs. 1 lakh each at SIH 2018.

The team Vision developed an app for 'export cost indicator' and 'trade route map indicator' at Mumbai for the Ministry of Commerce and Industry. While the team Cyber\_Cena developed an app for whitelisting of USB devices which can be subsequently used on the Internet as well as on Intranet at Bengaluru for the Ministry of Defence.





## GIANT STRIDES

# Rich haul for Amrita students in Smart India Hackathon

EXPRESS NEWS SERVICE @ Coimbatore

THREE apps and technology solutions developed by the BTech students of Amrita Vishwa Vidyapeetham in response to the challenges posed by several Ministries have won top awards at Smart India Hackathon (SIH)-2018 organised by the Central government.

While two of these solutions, related to the Ministry of Defence and Ministry of Commerce and Industry, bagged the top awards and cash prizes of Rs 1 lakh each, the third for the AYUSH Ministry got a special award in the students' innovation category. The annual event, considered the largest hackathon in the World lasting a gruelling 36-hours, allows various departments of Central and State governments to engage with over one lakh technical students from different universities across India and challenge them to build digital solutions to improve efficiency and plug revenue leakages.

While three teams of six students each from Amrita Vishwa Vidyapeetham won awards at the event, three others featured in the top 10 teams in India for various Ministries, stated a release from the Institution.

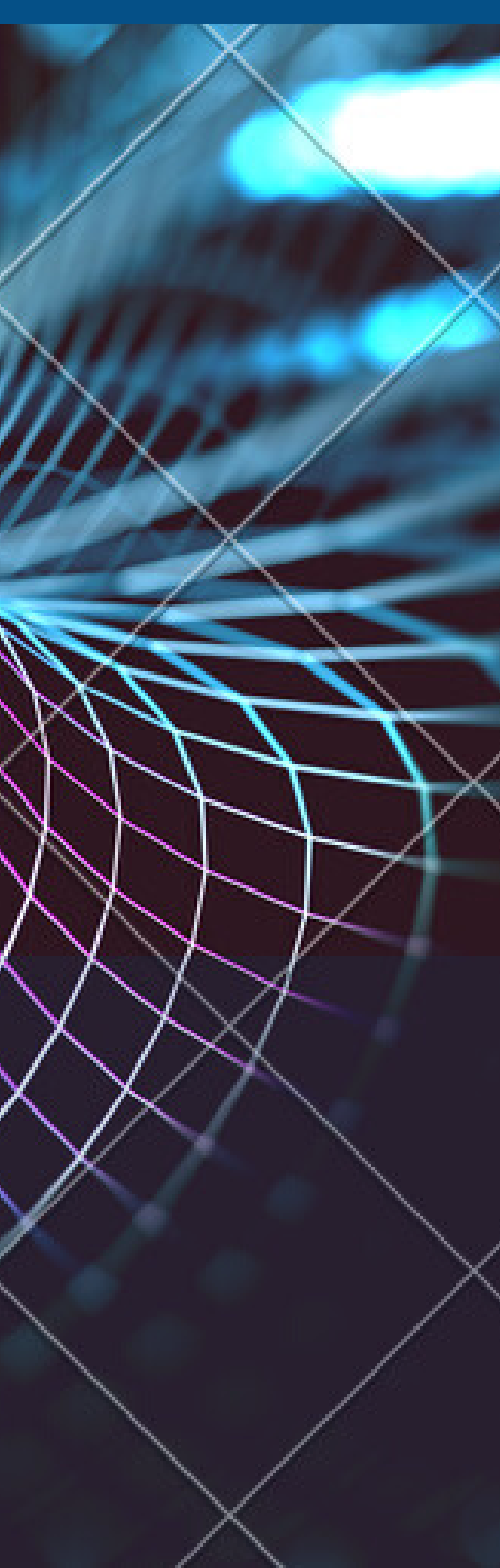
The Andorid app Niryatak, developed by Amrita Vishwa Vidyapeetham's team of second-year BTech students for Indian exporters and manufacturers, has won the top prize in response to a challenge posed by the Ministry of Commerce and Industry. The app helps calculate the correct post-production cost of any product being exported and suggests what the selling price should be for optimum profit. The app has features such as a live in-built map to show optimum routes for transport.

Another team of six third-year BTech students, calling themselves Cyber Sena, has won the top award by developing a secure system for the Ministry of Defence. The solution enables easy transfer of data from one network to another through white-listing pen drives. Yet another team has won the special award in the Students' Innovation Category for developing an app for the Ministry of AYUSH for conversions of Ayurveda units.

### Proposed purpose

The annual event, considered the largest hackathon in the World, allows various departments of Central and State governments to engage with over one lakh technical students

Another team from Amrita, Exalt, won a special award and cash prize of Rs. 1 lakh in the Students' Innovation category from Ministry of AYUSH for developing an app for Ayurveda unit conversions.



## Team Vision



## Team Cyber Sena



## Team Exalt





# ACHIEVEMENTS

## **K Dharani Tejaswini**

Recognition of the Best Project Titled Localization  
Algorithm for Large-Scale RFID based Asset Tracking

## **Surendar S**

Secured 93th rank in Asia Pacific and Japan.

Secured 2nd rank in India

- Cisco Networking Academy Asia pacific and japan 2017  
Netriders CCNA skills competition

## **Lalith Gopan**

Recognition of the Best Project Titled Scene Based Non -  
Uniformity Correction for Opticac remote sensing imagery

## **Vikas K Vijayan**

Recognition of the Best Project Titled Smart Climate  
Monitoring for Large Scale Building

## **Reshma Hiralal**

Recognition of the Best Project Titled Segmentation of  
MRI Brain Images and Creation of Structural and  
Functional Brain Atlas





# ASCII PRIZE DISTRIBUTION

## **Best Outgoing Student - Geethu Mohan Memorial Award**

Priya Dharshini S

## **Outstanding Student Award**

Yaazhlene P

## **Certificate of Appreciation**

Mr. Alampalli Ramu Nikhil

Mr. Prithvi Shah

Ms. B Vasudha

Mr. E Venkata Chaitanya

Mr. Kolanu Sai Saranya

Mr. Rama Ganapathy

Ms. Meghana

Mr. Suraj

Ms. Shraddha Janakiraman

Ms. Keerthanna G S

Mr. Shree Shanmukh

Ms. Snigdha

Mr. N Varun Siddarth

Mr. Vivek K

# STUDENTS CONTRIBUTION



Smitha - CSE 1st Year





# BEHIND THE SCENES

## The Team

ASCII Chair- Alampalli Ramu Nikhil

ASCII Vice-Chair- Prithvi Paresh Shah

Chief Editor- Shradhaa Janakiraman

Keerthana G S

Snigdha P

Varunsiddharth N

## Acknowledgments

Dr. Venkatraman D

Ms. Bagyammal T

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Suraj Anbumani

Eric Joseph

Sri Harsha Patallapalli

# ASCII

SIGNING OFF!!!!

