MESSAGE FROM DEPARTMENT CHAIR

It gives me immense pleasure to publish the new issue of the E-newsletter. It has been a highly fruitful semester packed with funded workshops, guest talks and industry expert visits. The faculty members and the students have also enthusiastically participated in various academic, extra-curricular and research activities. I congratulate all who have won accolades in all these activities and encourage all of them to continue with this trend. Happy reading!

- Dr. Ashalatha Nayak

Faculty Mentor

Dr. Srikanth Prabhu

Editor- in-Chief

Ms. Vidhya.V

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4. Ms. Rajashree Krishna

5. Mr. Govardhan Hegde

6. Ms. Vidya Pai

7. Ms. Shana. A

Ph. D AWARDEES

Mr. Adesh.N.D has been awarded doctoral degree by MAHE, Manipal, for his thesis titled "Design and Implementation of Efficient Techniques for Packet Scheduling and Congestion Control in 4G LTE Networks" under the guidance of Dr. Renuka.A .

Mr. Rudresh Deepak Shirwaikar has been awarded doctoral degree by MAHE, Manipal, for his thesis titled "Data Mining Framework for Prediction of Apnea and Drug Dosage of Caffeine and Aminophylline in Neonates" under the guidance of Dr. Dinesh Acharya U.

Mr. Mohan Kumar. J ha been awarded doctoral degree by MAHE, Manipal for his thesis titled "Application of soft computing techniques for localisation algorithms in wireless sensor networks" under the co-guideship of Dr. N. Gopalakrishna Kini.

DEPARTMENT EVENTS

INDUSTRY AWARENESS PROGRAM | HPE

The HPE expert team conducted an awareness program in the department on 27th July 2019 about the various opportunities available to the students such as in-house projects, summer projects, internship and placements . The team also acknowledged the students and mentors on the successful completion of in-house summer projects offered by HPE as part of HPE-MIT industry institute collaboration.

AICTE SPONSORED STTP

The Department organised AICTE sponsored six days Short Term Training Program (STTP) on "Big Image Data Processing Using Machine Learning Techniques" from 4th to 9th November 2019. The eminent speakers from premier institutes and industries delivered expert lectures. The objectives of the STTP were to enable the participants to understand Big Image Data and its significance, and to enable them to use Tensor Flow, SPARK, Hadoop, Python, MatLab etc.

NATIONAL INSTRUCTIONAL WORKSHOP ON CRYPTOLOGY

The Centre for Cryptography and Department of CSE, MIT, Manipal and Cryptology Research Society of India (CRSI), Kolkata, jointly conducted a three days National Instructional Workshop on Cryptology (NIWC) from 8th to 10th July 2019. The eminent speakers from premier institutes and industries delivered expert lectures. The workshop is funded by National Board of Higher Mathematics (NBHM), Mumbai and Defense Research and Development organization (DRDO), New Delhi. The workshop witnessed a crowd of 40 participants.

FDP ON OPEN SOURCE TECHNOLOGIES

A 2-day hands-on workshop on "Open Source Technologies" was organized by the department from 15th to 16th July 2019. The event witnessed 38 participants from various departments of the Institute.

GUEST LECTURE ON TECHNOLOGY LEADERSHIP

The department organized a guest lecture by Dr. Ashok N Prabhu on the topic " Opportunity to Capture Technology Leadership" on 26th August 2019. The talk focused on various basic strategies and practices especially for small scale businesses to be in the forefront of the technology.

PROF. RAJARAM MEMORIAL LECTURE SERIES

The Department organised a guest talk by Dr Venkatesh Choppella, Associate Professor, IIIT Hyderabad as part of Prof. Rajaram Memorial Lecture Series on 24th July 2019. The talk titled "Feedback Control Approach to Concurrency" focused on concurrent programs, especially those with shared memory.

AICTE SPONSORED TWO WEEKS FDP

The Department organized AICTE sponsored two weeks Faculty Development Program (FDP) titled "Recent Trends in Machine Learning and Pattern Recognition" from 11th to 24th December 2019. Experienced faculty members and experts from various premier institutions were the resource persons for this FDP. The programme was aimed at providing a platform for understanding the advanced concepts of Pattern Recognition and Machine Learning.

GUEST LECTURE ON RESEARCH WRITING AND PUBLICATION

The department organized a guest lecture on "How to define research problem and write a good technical paper with high probability of acceptance" by Dr. Debebrata Das from IIIT, Bangalore on 31st October 2019. The talk witnessed participation of faculty members and students in large numbers. The emphasis of the talk was on writing a quality paper for its acceptance and publication in a high impact factor journal.

STUDENT ACHIEVEMENTS

PEDIATRIC APP WINS STANFORD'S HEALTH++ HACKATHON

The Pedi-Pod app, designed and developed by Akshatha Kamath (CSE) and Jithin Sunny (EEE) students of third year, received first place in Stanford's Health++ Hackathon held at Huang School of Engineering, Stanford University on 19th-20th October 2019. The application is an augmented reality based app which can provide the required dosage of medicines in paediatric care. The team also won the Global Health category award.

BILLING SOFTWARE FOR CAD LAB

Mr. Giridhar, a third year student, developed a Billing Software for CAD LAB which was recognized and appreciated by Manipal School of Architecture and Planning during the annual day on 5th October 2019.

STUDENTS RECEIVE INTERNSHIP OFFER AT DEAKIN UNIVERSITY

Three students from the department - Govind Chhawchharia, Anushka Datta and Jenit Jain have received an invitation for pursuing research internship at Deakin University, Australia from February 2020 to April 2020.

STUDENT RESEARCH RECOGNITION

Six students received certificate of PRAISE in recognition of their contribution in student research at MAHE and for publishing their research work in Scopus/Web of Science indexed journal during the year 2018-19. The recipients include Sameena Begum Pathan, Arunaav Alok, Bhavya Shahi, Shriya Atmakuri, Rudresh Deepak Shirwaikar and Shikhar Srivatsava.

STUDENT EARNS SCHOLARSHIP TO ATTEND COMPUTING CONFERENCE

Sannidhi.P. Kumar, a final year student, received the student scholarship from AnitaB.org to attend Grace Hopper celebration India; Asia's largest conference for women technologists.

NUPUR SAXENA WINS GOOGLE WOMEN TECH-MAKERS SCHLOARSHIP

Nupur Saxena, a final year student has been selected as a scholarship recipient of the 2019 APAC Women Techmakers Scholars Program by Google. She has also participated in the Scholar's retreat on August 2019 hosted by Google at Sydney. She is the third female student from Manipal to receive the presitigious scholarship.

ALUMNI CORNER

ACHIEVEMENTS

Mr. Pankaj More (1994) is currently appointed as CIO of Walmart, India. He will be responsible for strengthening Walmart India's technology and IT infrastructure.

Ms. Mallika Priya Khullar (2015) has entered in to the portals of Stanford University. She is pursuing a Master's degree in Management Science and Engineering at Stanford.

INTERACTIONS

Mr.Vishwas G Kini, currently pursuing Masters at Deakin University, Melbourne, Australia, has given a technical talk titled ' Virtual Reality and its Applications ' on 12th July 2019. The talk covered various recent topics on virtual reality including HTC Vive and Google Daydream.

FACULTY ACHIEVEMENTS

- ◆ The faculty members have published around twenty one research papers in various Scopus indexed journals and also presented papers in various international conferences during July to December 2019.

- ◆ Ms. Archana kumar has been awarded as the best presenter in the session at IEEE international conference on Distributed Computing, VLSI, Electrical circuits and Robotics held at MIT, Manipal during 11th to 12th August 2019.

- ◆ Mr. Amitkumar Gundad has been certified by Apple as "Apple Certified Trainer (ACT) App Development with Swift 4" on 23rd October 2019.

- ◆ Mr. Amitkumar Gundad has completed "Basic Mountaineering Course" from Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports, Himachal Pradesh during the month of July.

- ◆ Dr. Manjunath K N, has got the corresponding member status of ESR (European Society of Radiology) from July 2019. It is the largest radiological society in the world mainly with members from radiology, radiology residents, professionals of allied health sciences and biomedical engineering researchers.

- ◆ Dr. Srikanth Prabhu gained hands-on experience on Photo Facial Analysis Technique as part of the workshop organised by Forensic Science Institute ,India during 23rd to 24th November 2019.

- ◆ Dr. Manjunath K N, has presented his research work and participated in the global clinical engineers' day at the University of Cattolica Sacro Due Cuore ,Rome,Italy in a Clinical Engineering congress conducted by International Federation of Medical and Biological Engineering Society (IFMBE and IUPESM, France) from 20th-23rd October 2019. He has received young researcher grant support from society.

DEPARTMENT CLUB ACTIVITIES

LINUX USERS' GROUP

Faculty Advisor
Mr. Ashwath Rao

Events Conducted
1. Linux install fest-1 on 22nd Sept. 2019
2. Linux install fest-2 on 17th Aug. 2019

IECSE

Faculty Advisor
Mr. Giridhar. N.S

Events Conducted
1. Code Heat- A two-day online student coding contest on 12th to 13th July 2019
2. Code Meet – A workshop on graph theory on 22nd Aug. 2019.
3. Fresher's Codesprint - A three-day online coding contest from13^{th} to 15th Sept. 2019
4. PSUC Workshop - A two-day workshop for first years from 25th to 26th Oct. 2019.
5. Genesis - database and app development event on 5th to 7th Feb. 2019

ACM STUDENT CHAPTER

Faculty Advisor
Dr. Srikanth Prabhu

Events Conducted
1. Webinar with Arpan Mishra on 16th Aug. 2019
2. ACM ICPC Practise 101 on 25th Aug.2019
3. ACM Manipal Codestart on 12th Sept. 2019
4. Talk on Google Summer of Code on 16th Sept. 2019
5. Guest Talk on RPA on 31st Oct. 2019