

Manipal Academy of Higher Education

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Faculty work

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**A Half- yearly E-newsletter of the Department of Computer
Science and Engineering, Manipal Institute of Technology -Jul
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MESSAGE FROM DEPARTMENT CHAIR



Greetings to all !
With the beginning of new academic year, on behalf of the department, I extend a warm welcome to the new batch of students to the unique experience of quality learning. Being one of the most happening departments of MIT, we have a series of events and activities in every semester which has continued to enhance the teaching-learning and research perspectives of the department. It is my pleasure to put forth all the major activities and events in this edition of newsletter. I congratulate all faculty members, students and alumni for the achievements and contributions they have made towards the department and the institute. Wish you a great semester ahead.

- Dr. Ashalatha Nayak

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DEPARTMENT EVENTS

TECH TALK BY HPE

Prominent personalities from HPE visited MIT, Manipal on 15th February 2018 to conduct workshop, hosted by the Department and Industrial Liaison, Placements and Practice School. The resource persons delivered informative talk on “Data Center – Virtualization & Cloud”. Hands-on sessions were conducted on “How to design and create web applications for today and future!” and “OpenStack – Architecture, Components and Private Cloud Deployment”. Around 80 students and faculty members from CSE, ICT and ECE Departments participated in the workshop.



EMPOWERED FOR THE FUTURE-KPMG

The department organized a guest lecture “The Hitchhikers Guide to the Future” on 22nd February 2018. The lecture was delivered by Mr. Biswajit Das, Director, KPMG, Bangalore and Mr. Mathew Paul, Associate Director, KPMG, Bangalore. The duo discussed the various concepts related to real time data acquisition and storage optimisation techniques currently practised in the industry.

SOFTWARE TESTING WORKSHOP

The department in association with LDRA Academic Alliance Program organized one day workshop titled "Interactive Session on LDRA tools" on 25th June 2018. The workshop highlighted the importance of coding standards and also demonstrated various features in LDRA tool.

PROF. RAJARAM MEMORIAL LECTURE SERIES

The first talk in the Prof. Rajaram Memorial Lecture Series was organised by the department on 22nd June 2018. Retd. Prof. Dr. Tapan Kumar Basu delivered a talk on the topic, “Need for Educational Technology: Aims & Objectives”. He gave insights on the various multimedia tools like speech processing, image and video processing, data compression and coding etc.

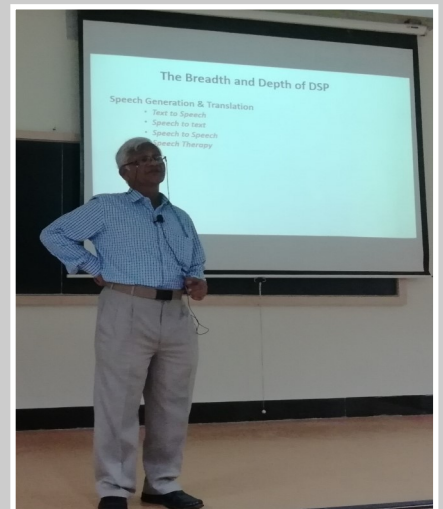
SEMINAR ON RESEARCH OPPORTUNITIES

In association with the Departments of ICT and DCA ,the Department organized one-day seminar on the topic “Research at University of Hochschule Bremen” by Dr. Helmut Eirund and Dr. Willi Wittig on 24th February 2018. The seminar witnessed 40 participants and highlighted the various research opportunities available at the University of Hochschule Bremen, Germany.



GUEST TALK ON DIGITAL SIGNAL PROCESSING

The department together with Education Technology Cell organized a guest talk on “Digital Signal Processing (DSP) – Science, Engineering and Technology Perspective” on 19th June 2018. The inspirational speech was delivered by Retd. Prof. Dr. Tapan Kumar Basu, IIT Kharagpur and presently serving as Research Advisor at C-DAC Kolkata. The session focused on various applications of DSP in a multitude of domains.



STUDENT ABROAD EXPERIENCE

“I'm thankful to MAHE and EFREI Group - Engineering School of Information and Digital Technologies, Paris, for providing the wonderful student exchange program. I have completed 3 years at MIT and continuing studies at EFREI under the 5-year integrated course. I have worked on close to nine projects as part of the curriculum. This had been one of the most challenging experiences so far. Working in groups composed of people from across the globe widens perspectives and equips one with soft skills that lets students deal with any kind of situation in a global corporate world.”

-Akhil Muraleedharan, Class of 2018



STUDENT ACHIEVEMENTS

STUDENTS WINNING DELOITTE TECHNOUTSAV

CCTC

Team Accel emerged as the National Champions of Deloitte TechnoUtsav Collegiate Cyber Threat Competition (CCTC) by winning a sum of ₹ 2.4 Lakhs. The event was held on 13th April 2018 at Deloitte, Hyderabad Campus, conducted in around 60 campuses through a series of



online rounds and challenges for over a month to test the students' skills as a cybersecurity specialist. The three-member team included Kushagra Sharma (Team Captain - CSE), Poorvi Hegde (CCE) and Aakash Bahl (EEE), all third-year students.

BADMINTON VANQUISHERS FROM MIT

Govardhan Shenoy, student of third year, captained MIT team that emerged as winners of the MAHE Inter Collegiate Badminton Tournament 2018 which was organized by MCODS Mangalore on 15th and 16th of Feb. at Marena Sports Complex Mangalore. Rahul Reddy, student of third year was also part of this team.

RESEARCH SCHOLAR TAKES HOME FIVE MEDALS

Asjad Nabeel, Junior Research Fellow won a total of five medals in MAHE staff athletics meet 2018, held on January 28. He bagged gold in 100mts and 200mts sprint events, silver in 400mts race, bronze in long jump and relay.

SMART BIN APP'S ROAD TO MICROSOFT AXLE 2018

The team Noobs involving Rajat Shenoy and Jithin Sunny (CSE) showcased an effective waste management app - Smart Bin, in Microsoft Axle 2018, held at Hyderabad on May 15. This microcontroller powered smart bin opens up automatically when dumping the garbage and also notifies the municipality when there is a bin overflow.

MIT ALUMNI BAGS INNOVATION AWARD 2018

The team led by our alumni Ms. Saakshi Bagrodia Agarwal (2014, CSE) working in TIF Labs Pvt Ltd has received an Innovation award 2018 from BCIC in the category of Disruptive Technology.



MANY FEATHERS IN ITS CAP: SHOWSTOPPERS

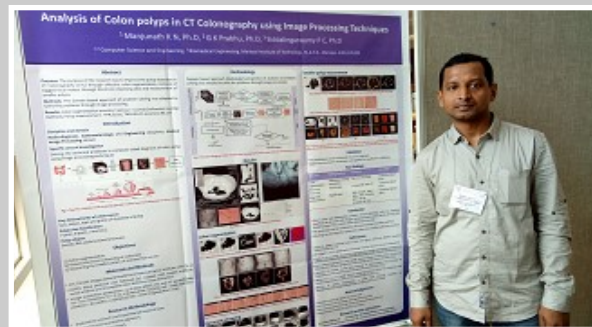
A western dance group of MAHE won first position in Adrenaline'18 Cultural Fest organised by Father Muller Medical College, Mangalore, during 21-24 February. The team also bagged first in Revels '18 and Utsav'18 conducted by MIT and MAHE respectively. Three of our second year students Manas Gupta, Yashasvi Anand and Rohit Das were part of this winning team.

JOURNAL PUBLICATIONS

1. Kurady, Rajendra, Rakshith Shetty, K. N. Manjunath, and Bhuvan Salanke. "Tele NICU Connect-The Concept and Solution for Neonatal Application." *Journal of Advanced Research in Dynamical and Control Systems* 9, no. 15 (2018): 847-852.
2. Arjunan, Vijaya R., and Vinayaka K. Kamath. "Cloud computing system for small and medium corporations." *International Journal of Engineering and Technology* 7, no. 1.1 (2018): 173-176.
3. Adesh, N. D., and A. Renuka. "Adaptive downlink packet scheduling in LTE networks based on queue monitoring." *Wireless Networks* (2018): 1-18.
4. Pathan, Sameena, K. Gopalakrishna Prabhu, and P. C. Siddalingaswamy. "A methodological approach to classify typical and atypical pigment network patterns for melanoma diagnosis." *Biomedical Signal Processing and Control*, no. 44 (2018): 25-37.
5. Kamath, Vinayaka K., and Arjunan Vijaya. "Cloud Computing for Small and Medium Enterprises Using Infrastructure-as-a-Service Approach." *Journal of Advanced Research in Dynamical and Control Systems* 10, no. 4 (2018): 56-62.
6. Angle, Sachi, Ashwath Rao, B; N. Muralikrishna, S. "Kannada morpheme segmentation using machine learning." *International Journal of Engineering & Technology*, no. 2.31 (2018): 45-49.
7. Verma, Rohit, and Abhishek Srivastava. "A Dynamic Service Description for Mobile Environments." *Springer Computing* (2018): 1-29.
8. Pathan, Sameena, K. Gopalakrishna Prabhu, and P. C. Siddalingaswamy. "Techniques and algorithms for computer aided diagnosis of pigmented skin lesions—A review." *Biomedical Signal Processing and Control*, no. 39 (2018): 237-262.

FACULTY ACHIEVEMENTS

- ◆ Dr. P. C. Siddalingaswamy, along with Dr. Ramesh S V, Department of Optometry, School of Allied Health Sciences, Manipal in collaboration with industry partners Vuon Technologies, Mysuru have received a grant from BIRAC for the project titled "Virtual Reality based technology for Screening and Monitoring of sight threatening macular diseases". This interdisciplinary work involves development of wearable device to capture functional loss of eye and to train patients suffering from central vision loss.
- ◆ Dr. Srikanth Prabhu is appointed as the Lead Indian supervisor at Deakin University Australia for the doctoral program of Mr. Akshay Jaivittal. He will be collaboratively working with Prof. Gang Li at Deakin.
- ◆ Dr. Manjunath K N presented his research work in an International conference on 'Image Science 2018' conducted by the Gordon Research Conferences (GRC) at Stonehill College in Boston, Massachusetts during 17-22 June 2018. He has received Carl Storm underrepresented minority fellowship from the GRC committee and National Institute of Health, USA.



DEPARTMENT CLUB ACTIVITIES

IECSE

Faculty Advisor
Mr. Giridhar. N.S

Events Conducted

1. Cryptocurrency workshop on 13th and 14th Jan. 2018.
2. Kaiser - an annual offline coding event on 16th Jan. 2018.
3. Codesprint 2.0 - an online coding competition on 27th and 28th Jan. 2018.
4. Prometheus - an annual flagship technical fest on 23rd and 24th Mar. 2018.
5. Pixel - a three day design workshop from 13th - 15th Feb. 2018.
6. Intersection Coding - coding contest on 23rd and 24th Jan. 2018
7. Webweek - a three day workshop from 31st - 2nd Feb. 2018.
8. Webmeet - a web development workshop on 10th Jan. 2018.

LINUX USERS' GROUP

Faculty Advisor
Mr. Ashwath Rao

Events Conducted

1. 'Git and Github' workshop on 10th Jan. 2018.
2. AngularJS workshop on 7th Apr. 2018.

ACM STUDENT CHAPTER

Faculty Advisor
Dr. Srikanth Prabhu

Events Conducted

1. Research 101 workshop on 22nd Jan. 2018.
2. 'She Mentors' - an event by ACM-W to hone the programming skills of girl students on 4th Mar. 2018.
3. 'Rendezvous with Research' - an event that covered talks by Professors from CSE and ICT Departments on 25th Mar. 2018.