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## **A Half-yearly E-newsletter of the Department of Computer Science and Engineering Manipal Institute of Technology**

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A Half-yearly e-newsletter of the Department of Computer Science and Engineering  
Manipal Institute of Technology, Manipal Academy Of Higher Education, Manipal  
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## Message from Department Chair

New Year Greetings to all,

The year 2017 has been a memorable year as we celebrated Diamond Jubilee of the Institute. As a part of this major milestone, we hosted a few international conferences, guest lectures and technical sessions which has been a truly satisfying experience for all of us. Now moving ahead in the year 2018, we are going to celebrate Silver Jubilee of Manipal Academy of Higher Education (MAHE) wherein we would like to continue with the same enthusiasm adding more value to the teaching-learning pedagogy. On behalf of CSE Department, I acknowledge the spirit of involvement of every individual in making the year a remarkable one. The department appreciates the whole-hearted support and encouragement extended by our former Director Prof. Dr. G. K. Prabhu in all our endeavors during this landmark year and would like to congratulate and welcome our new Director Prof. Dr. Srikanth Rao.



## Department Events:

### Workshop on High Performance Computing

A four-day workshop on High Performance Computing was organized by the Department of CSE and I&CT in association with CDAC Pune in the month of June 2017. The workshop was steered by the three Principal Technical Officers from CDAC Mr. Manjunatha Valmiki, Mr. Samrit Kumar Maity and Mr. Chithranjan Singh. They emphasized on the parallel programming models viz., OpenMP, MPI, OpenCL and CUDA.

### IEEE ICACCI '17 Conference

The Computer Science Stream of MIT organized the 6<sup>th</sup> IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI'17) from 13th to 16th September 2017. The highlights of the conference include 20 keynote sessions by eminent academicians and researchers from reputed universities across the world.



### DST-NBHM-INS-ISRO-CSIR Sponsored Conference:

CSE Department jointly with the Department of Mathematics organized a workshop and conference titled "Computer Application based on Modern Algebra" from 1st to 4th July 2017. The conference highlighted the concepts from modern algebra and demonstrated their applications in computer science. The event provided an ideal platform for the participants to reinforce their knowledge in the inter-disciplinary domains.

### Women Empowerment

Department of CSE in collaboration with Anita Borg Institute (ABI) arranged a talk on "Women Empowerment" on 2nd September, 2017 which focused on empowering women in technology. Their flagship program in India is the Grace Hopper Celebration India (GHCI), the largest technical conference for women in the country and one-of-its-kind in Asia. Ms. Sudha Meruva, a group development leader at Intuit addressed about ABI and the opportunities it provides for the empowerment of women.

## Faculty Achievement

### Ph.D Awardees

Mr. Narendra V G has been awarded doctoral degree by MAHE, Manipal on 21st July, 2017, for his thesis entitled "Design of an Intelligent Grading System for Cashew kernel using Image Processing and Soft Computing Techniques".

Mr. Manjunath K.N has been awarded doctoral degree by MAHE, Manipal, on 15th July, 2017, for his thesis entitled "Computer Aided Assessment of Colon Polyps in CT Colonography using Image Processing Techniques".

### Faculty recognition – Toastmaster International

Dr.Srikanth Prabhu received Advanced Communicator Bronze award in July 2017. The program comprises delivering key note address, Humor Speech, Vocational Speeches connecting technical, medical and management.

### Travel Grant on Early Career Research

Dr. Manjunath K N has presented his research work in a research Colloquium "Germany and India – Partners in Education and Research" organized and conducted by Alexander Von Humboldt Foundation, Germany in Bangalore and has received early career researcher's travel grant in this event.

### Throw ball tournament

MIT, Manipal organized Karnataka State Level Inter Engineering College Staff Women's throw ball tournament as part of Diamond Jubilee Celebration on 5th Nov 2017. The MIT team led by Dr. Geetha Maiya (CSE) won the first prize. Ms. Roopashree Shetty(CSE) was one of the team member.

## Student Achievements:

### Student Publications

Around 70 budding researchers of the department have presented 34 research papers in various International Conferences under the guidance of the department faculty members. Shikhar Srivastava won the best paper award at ICHTR conference. The department appreciates the students' inclination towards research.

### SimpLiFi : Stunning Win in TechTatva'17

Sidharth Soni and Shaleen Kalsi participated in BizzVenture, a featured event of TechTatva. The use of light fidelity in homes and office spaces is the concept of the project "SimpLiFi".

### Pro.Verb '17: Outstanding Speaker Award Winners

Amandeep Singh Kalsi (CSE) and Ninaad (ICE) won the MV Kamath National Parliamentary Debate Tournament, Pro.Verb '17 held at School of Communication, Manipal. The team was adjudicated the best team. Amandeep was adjudged the best speaker.

### Akshaya Patra: Innovative Energy Saving Project

Vinayak Prabhu (CSE) and Kavya Prabhu (MBA) designed a low-cost, multi-purpose vessel called Akshaya Patra. The vessel is covered with glass wool which prevents heat from emanating outside the container, thereby keeping the food warm and fresh for long. The duo won the consolation prize at the InkMakers competition in Hyderabad

### M.Tech Student Awarded Runner-up in Chrono Entrepreneurship Challenge '17

Siddarth Pai Manur has secured second place in 24H Chrono Entrepreneurship Challenge organized by French Embassy in India and IISER, Pune during 1-2 December 2017. The 24H Chrono Entrepreneurship Challenge is a flagship project of "Bonjour India", a platform which celebrates the Innovation and Creativity of the long-lasting partnership established between France and India.

## Department Club Activities

### IECSE

Faculty Advisor: Mr. Giridhar N S

Events Conducted:

- 1.CodeHeat, a three-day coding competition.
2. Data Structures workshop.
3. Code Meet, Web Meet and Dev Meet.

### Linux User Group

Faculty Advisor: Mr. Ashwath Rao

Events Conducted:

1. Linux Install Fest
2. MUPy, Manipal's Python Developer Conference
3. Linux Install Fest 2.0

### ACM Student Chapter

Faculty Advisor: Dr.Srikanth Prabhu

Events Conducted:

1. Technical weekend in collaboration with MIST
2. Open Source, OpenCV and Git workshop
3. New sibling chapter ACM-W, specifically aimed at women was started.

## Faculty Deputations

The department congratulates the following faculty members for completing their deputation in various organizations:

**Dr R Vijaya Arjunan – MU, Dubai campus**

**Mr. Kishore B - Manipal International University, Malaysia**

**Mr.Bhargav Bhatkalkar - Toshiba Software Pvt. Ltd.**

This exposure has catalyzed their mentoring and leadership skills. The faculty members have thanked the institute for giving them an opportunity to gain experience in international teaching methods, research and advances in various fields of Computer Science. We from CSE Department, wish the faculty members all success in their professional career.

## Semester Abroad Experience:

### **An experience not to be missed**

*I had a wonderful and exciting semester abroad program at Epitech University, France. Epitech is keen in providing a professional and engaging learning environment, with enthusiastic and supporting faculty. The students were also very welcoming and friendly and there was a lot to learn. There were a lot of events added up to have a good holiday in Paris as well. Overall, the experience was incredible and I would recommend my fellow mates to use this opportunity every year.*

**Saurabh Grover, Fourth year B.Tech student**



## Go Green Initiative for Air Purification

The team comprising Dhruv Suri (AERO), Rahil Nayak (AERO) and Priyanshi Somani (CSE) has developed an eco-friendly billboard. The model has an inbuilt carbon dioxide scrubber that acts as an air purifier. As a winning team of the Manipal Innovation Challenge, the team will receive funds to develop a working prototype.

## CSE Students as Campus Ambassadors

Mr. Suyash Singh has been nominated as the Campus ambassador for Schneider Electric for the current academic year. Ms. Abhishree Shetty has been chosen as the Campus ambassador for GeeksforGeeks for the current session.

## Runner-up in State Level Badminton Tournament

Govardhan Shenoy secured Runner-up in "Karnataka State Dasara Badminton Tournament 2017" organized by Department of Youth Empowerment & Sports, Karnataka Sports Welfare (Govt. of Karnataka) and Dasara Sports Committee, Mysore from 21-24 September.

## Student Successfully Completes Harvard B-School Course

Bhaskar Suman Singh has completed a course on "Leading with Finance" from Harvard Business School, Boston, USA. This program highlights the importance of incorporating subjective judgments into financial decision-making, empowering one to become a more effective business leader.