MANAV RACHNA INTERNATIONAL UNIVERSITY
Department of Computer Science & Engineering

Newsletter
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Vision
To empower the graduates to be technologically adept, innovative, self-motivated and responsible citizens, possessing human values and contribute significantly towards being a center of excellence in providing globally standard education, through a conducive Teaching and Research environment, that responds swiftly to the challenges of the ever changing world.

MISSION
• To achieve academic excellence by imparting in-depth knowledge to the students through effective pedagogies and hands on experience on latest tools and technologies.
• To pursue interdisciplinary research that will serve the needs of the entire global community.
• To prepare students to be continuous learners in a connected world and imbibe professional skills and ethical responsibilities in them.
• To strengthen the Industry-Academia interface that will help the graduates to emerge as leaders in academics or an inspiring revolutionary in entrepreneurship.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)
• PEO-1: To prepare the graduates for a successful career in industry, consultancy, teaching and allied areas related to the subjects of Computer Science and Engineering.
• PEO-2: To assimilate the graduates with team-spirit, leadership and problem-solving skills so they can lead organizations they join or initiate their own ventures.
• PEO-3: To prepare and assist the graduates to be successful in higher education leading to Masters and Research programmes, thereby creating and disseminating knowledge through research activities in the theory and application of computing.
• PEO-4: To groom the graduates as professional engineers with an understanding of professional and ethical responsibilities, enabling them to contribute effectively to the growth and development of a body of knowledge.
• PEO-5: To instill the ability to analyze the requirements, understand the technical specifications and design the innovative solutions by applying the principles of computing.
A STUDENT-ALUMNI INTERACTION

A Student-Alumni Interaction has been organized on January 31, 2017, at its MRIU Campus, Faridabad. One of our alumni Mr. Pankaj Singh is successfully running his Company “Simplified Product Solutions” in Auckland, New Zealand. He shared the memories of his golden college days with the students. He motivated the students to work harder, participate in technical competitions and not waste any opportunity to learn something new.

FDP on Experiential, project-based learn-by-doing learning approach using Java Programming (Online)

A 10 days showcase program was organized from 13th February, 2017 to 24th February, 2017. The resource person for the program was Prof (Dr) Lynn Carter, from Robert Carter Academy, USA. He is a former Professor of Carnegie Mellon University, Pittsburgh, Pennsylvania, USA. This showcase program was designed to make the participants familiar with the methodology to develop software with a test driven approach. This program provided an “on the job” experience to students by going through the phased development of a software in which all the participants were provided with some activity, in which they were asked to enhance the code keeping in mind all the constrained provided by the trainer. All this comes under Test-driven Development (TDD).

ACADVIEW ORIENTATION

Student-Industry Interaction was organized on February 20, 2017. The event was an Orientation programme regarding summer training course being offered by AcadView. Mr. Himanshu Batra, AcadView Founder, made an impactful and detailed orientation, an ice breaking session to present his summer training platform to the students in the domain of front-end development using JavaScript, HTML, CSS, JQuery, Angular JS, Bootstrap and Django Framework.
Event Highlights

Workshop on Cloud Computing and Security in Social Networks under ACM Student Chapter

A workshop was organized on Cloud Computing and Security in Social Networks under the banner of Association for Computing Machinery (ACM) student chapter on February 22, 2017.

The speaker of the session was Prof. Ponnurangam Kumaraguru ("PK") who is an Associate Professor, at the Indraprastha Institute of Information Technology (IIIT), Delhi, India, since August 2009. He is a TEDx and an ACM Distinguished speaker. He plays an advisory role in various government organizations and a Fortune 500 company. In the past 8 years of his faculty life, he has managed projects close to 800,000 USDs (approx. 5 crores of Indian rupees). Prof PK spoke about Privacy and Security in Online Social Media where he stated other facts like “the rising number of deaths related to selfies and discussed few ideas to prevent these”, following to this he talked about his research regarding browser extensions which are stealing your data.

Another speaker was Mr. Amit Sharma – Technical Seminar Expert at APTRON Services, where he discussed about cloud computing and its advantages over tradition IT systems. He also stated some facts and figures on how using AWS (Amazon Web Services) is cheaper.

SEMINAR ON CYBER SECURITY

A seminar was organized on ‘Cyber Security and Ethical Hacking’, on March 18, 2017. Mr. Rahul Tyagi, Vice President - Training, Lucideus Tech Pvt. Ltd., was the resource person of the seminar. The seminar started with a brief introduction to security terms in an interactive manner. He also showed the students how phone tracing is not a difficult task anymore and how various fraudulent websites steal personal information from users. He introduced students to the art of password keeping and easy downloading of books, research papers, literary material etc.
**Event Highlights**

**Project Carnival**
The Project Carnival was conducted on the theme titled Internet of Things (“IoT”) on 28th March 2017. A total of eleven project teams comprised of twenty eight students participated. Some of the projects exhibited were:
- Dentist Posture Belt,
- Android ticketing of railways with GPS validation using QR code,
- Smart Grievances Redressal system,
- Smart City Solutions etc.

Dr. Suresh Kumar, HOD-CSE and two Industry Experts addressed these students followed by detailed evaluation of each project team by the experts. Many good suggestions were given by the experts for the improvement of the projects. Hence it was a learning experience for students. The team of ‘Dentist Posture Belt’ won the title of Best Project in the exhibition.

**Short Term Course on “Artificial Neural Network and Fuzzy Logic Through ICT”**
A five days short term course on “Artificial Neural Network and Fuzzy Logic through ICT” was organized during 24.04.2017 to 28.04.2017. The course was delivered by the faculties of National Institute of Technical Teachers Training and Research, Chandigarh.
There were 28 participants, wherein 25 Participants were from MREI and 3 participants from DAV Institute of Management, Faridabad. During this course, a wide variety of topics were discussed and some of the current research topics were explored.

On the first day Dr. Maitree Dutta, Head, Department of CSE, National Institute of Technical Teachers Training and Research, Chandigarh, inaugurated the event. Dr. Maitree Dutta, explained all the terms and terminologies which are commonly used in neural networks to lay down the foundation of the course. On the second day, Dr Maitree Dutta, delivered a talk on ‘Perceptron’, in which she explained about the Perceptron and how do we train a Perceptron. On the third day, first session was taken by Dr. Renu Vig, Director, UIET, Chandigarh, in which she explained Associative memory and its applications. Later, Dr. H K Sardana, Chief Scientist, CSIO, Chandigarh, discussed some research examples of neural network. Mrs. Shano Solanki discussed about the Fuzzy logic and its application in different areas.

On the Fourth day, first session was taken by Dr. Maitree Dutta on Adaptive Resonance theory. She explained MATLAB Programming for neural network and some programming Examples. After that one of her research scholar Ms. Jagrity Saini took a session on Optimization techniques. On the Fifth day, first session was continued by Ms. Jagrity Saini, in which she explained Hopfield, RBF network and MATLAB solutions of different problems were discussed. After that an On-line test was conducted to ascertain the knowledge gained through this course. And it was followed by a Valedictory session, which was addressed by Dr. Maitree Dutta, in which she took a feedback from each remote center, and some suggestions were provided to improve the quality of such Course.
National Conference on Networking, Cloud computing, Analytics and Computing Technology

Department of Computer Science and Engineering (CSE) in association with Engineers India Ltd (EIL) and IBM, organized a two-day National Conference on ‘Networking, Cloud computing, Analytics & Computing Technology’, during May 26-27, 2017. The conference aimed to encourage development and promote scientific information exchange between faculty, researchers, engineers, students and practitioners working in India as well as abroad, in the field of “Networking, Cloud Computing, Analytics and Computing Technology”.

Mr. Sandeep Malhotra, VP, HCL Technologies was the chief guest of the inauguration of the conference.

Mr. Sandeep Malhotra expressed his gratitude and immense pleasure for being a part of this conference. He explained the business dynamics of various companies such as FlipKart, PayTm, Shopclues, Ola Cabs, Google etc. along with the role, technology has played in elevating these companies. The conference constituted of five Keynote speakers. On the first day, Mr. Vikas Bhardwaj, IBM spoke on the topic ‘Blockchain Technology’; Mr. Ashish Arya, Senior Integration Engineer, SAP, delivered his talk on ‘Blockchain, IOT and Machine Learning’; and Dr. T. V. Vijay Kumar, JNU, addressed the topic ‘Big Data Revolutionary’.

On the second day, Dr. Vikram Goel, IIT Delhi, delivered his lecture on ‘Graph mining using Map-Reduce’ and Er. N. K. Garg, R Systems International Ltd, Noida, spoke on the topic ‘Mobile Computing: Recent Trends and Future’. In a span of two days, a total of around 50 research papers were presented in the conference, in two parallel sessions, covering topics ranging from cloud computing, big data analytics in healthcare, data and web mining, to social networking, machine learning and Internet of Things.

ONE DAY WORKSHOP ON ‘AGILE METHODOLOGY’

One day workshop was organized on the topic ‘AGILE METHODOLOGY’, delivered by Ms. Srilekh Sridharan, working with TCS from more than 12 years, was the resource person for the workshop on 19th August, 2017.

Faculties and students from CSE department participated in the workshop. The workshop focused on making people comfortable with Agile. She involved all the faculty members and students in various activities related to the topic. The practical scenarios focusing on various live case studies were also discussed in workshop, for better understanding. All the faculty members and students actively participated and successfully completed the workshop.
Faculty Achievements

- Mr. Sanjay Blaggan, Assistant Professor, emerged as winner of Inter Faculty & Staff tournament of MREI, in the event Table Tennis Open Men's Doubles Tournament.
- Ms. Poonam Nandal presented her final PhD presentation and viva on “Design of Techniques to identify similarity between Semantic Web documents”, on March 16, 2017, at YMCA University of Science & Technology, Faridabad.
- Ms. Urvashi Chugh completed her PhD titled “Clustering and Information Fusion in Wireless Sensor Networks for the Fire Detection Application”, from JUIT, Waknaghat.

Student Achievements

- Team Swastika, comprising of three B. Tech (CSE) students namely Sujit Roy, Aakash Bhadana and Vasu Kaushik, participated in the Microsoft Imagine Cup 2017, and showcased remarkable creativity and innovation to push technology forward. They received appreciation certificates for their hard work and dedication.
- Sujit Roy, student of B. Tech 8th semester, interacted with 2nd, 4th and 6th semester students, regarding their basics of Programming languages and requirements of IT companies.
- First year B. Tech CSE student Vaibhav Jha has authored a book namely ‘Hack the World before World hacks you’, ISBN 9781365802430, published by Lulu, on March 5, 2017. He also is the Founder & CEO of DimCats, Founder & Chief Mentor to DRIC.
- Students of Deptt. of CSE are underwent a short term Cyber Security Course- under a joint initiative by Manav Rachna and TCG Digital Solutions, since January 05, 2017, completed in March 2017.
- Sujit Roy and Rishav Verma, B. Tech CSE students participated in the project competition event namely Anveshan 2017 in category Health Sciences and Allied Subjects, North Zone in Student Research Convention held at Chitkara University, Punjab and won First position.
- Students of Department of Computer Science and Engineering (CSE), Faculty of Engineering and Technology, Manav Rachna International University participated in “CSI Haryana State Student Convention” held on 17th – 18th February 2017. Dronacharya College of Engineering, Gurugram was the host institute for the state student convention. Various Technical Events were organized in the convention and our students participated in 3 Technical Events namely ‘Android Application Development’, ‘Code Debugging’ and ‘Fact and Furious’ and bagged the Prizes, as follows:
  - Sahil Verma and Pooja Saha got 1st Position in Android Application Development.
  - Rohandeep Khurana and Vedant Sood got 2nd Position in Fact and Furious.
  - Sahil Kukreja and Naman got 3rd Position in Code Debugging.