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## Workshops organized



1. The workshop on “Ethical Hacking” was organized from 26th – 28th July 2018 in association with i3indya Technologies Noida, Uttar Pradesh” at SET by Computer science & engineering Department. Dr. Anand Sharma and Dr. Niranjn Lal were the coordinators for this workshop from SET and Mr. Nitesh Bhatia, (Cyber Security Analyst, i3indya Technologies) was the resource person for the sessions. He covered various topics like Theoretical knowledge of hacking-related tools, Social media Hacking- Facebook hacking, System hacking: Windows 7, Windows 8.1, Windows 10 hacking and theoretical knowledge about Wi-Fi hacking. In workshop total 118 students participated, from different Schools of Mody University of Science & Technology, Lakshmangarh, Sikar (Rajasthan), India. 6 Students were selected to participate in National Level Competition, CYBER DISEASE, to be held on 16th- 17th March 2019 at IIT Bombay.



2. The workshop on “IoT Challenges” was organized from 26th – 28th July 2018 in association with i3indya Technologies Noida, Uttar Pradesh at SET by Computer science & engineering Department. Dr. Anand Sharma and Dr. Niranjn Lal were the coordinators for this workshop from SET and Mr. Ravi kant, Mr. Rishabh Singh (Embedded Engineer, i3indya Technologies) were the resource persons for the technical and hands on session. They covered various topics including, A full explanation of ATmega16 microcontroller and it’s components and sensors, glowing LED in increasing order and pattern LED blinking with the buzzer, toggling bits of code B, Understanding the serial peripheral interface and Sending data to the server using Hercules. In workshop total 58 students participated, from different Schools of Mody University of Science & Technology, Lakshmangarh, Sikar (Rajasthan), India. 4 Student Groups have been selected to participate in National Level Completion: “IoT Challenges 2019 to be held on 16th-17th March 2019 at IIT Bombay.

3. The workshop on “Machine Learning with Python” was organized from 30th -31st July, 2018 by School of Engineering and Technology (SET), Mody University of Science and Technology. The workshop was supported by ECE department and Robota (Robotic society of SET). The workshop instructors were Mr. Ketan and Ms. Ayushi Srivastava from Techinest Jaipur. Total of 102 students participated in the workshop. The workshop covered topics such as introduction and need of Machine Learning, Running Machine Learning on a Linux platform, importance of Linux and introduction to vector machine. The students were taught to design a ML system for real datasets by using the concept of Neural Networks, Image searching, loading image with cloud library, Registering image for training model, training image datasets, recognition of different images to detect face and deregistering images from cloud library. The second project that the students were taught to develop was an AI based Door Access using face recognition technique.



## Workshops organized

4. Dr. Pinaki Ghosh from CSE Department visited Delhi Public School, Jaipur on 17th Oct, 2018 and conducted an interactive session on "Internet of Things". Students of 11th and 12th class participated in the session. Introduction to IoT, various applications of IoT, future scope and career opportunities were discussed in the program.



5. Mr. Hitesh Jangir from CSE Department visited Apex School, Fatehabad and DAV School, Fatehabad in Haryana on 30th Dec 2018 and 1st Jan 2019. Mr. Jangir interacted with the students of 11th and 12th standard through the seminar on IOT and Underlying Technologies. To grab the attention of the students the content was delivered with powerful visualisations and video clips.



6. Dr. Anil Saroliya from CSE Department visited the following engineering colleges to give a presentation on "Internet of Things and Fog Computing":
- Sobhasaria Engineering College, Sikar on 21st January 2019
  - Rajasthan Institute of Engineering & Technology, Jaipur on 30th January 2019
  - Rajasthan College of Engineering for Women, Jaipur on 31st January 2019
- The presentations were highly interactive, and the participants have shown interest by providing valuable thoughts for the implementation of IoT enabled solutions which are truly required by our society.



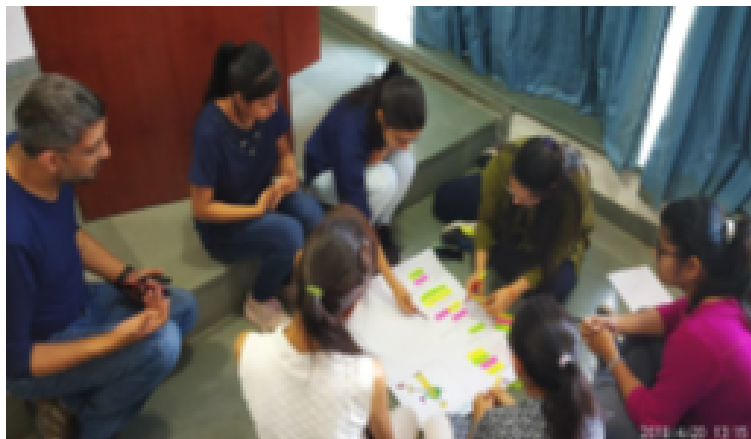
7. A workshop on "Virtual Lab", IIT Delhi (An Initiative of MHRD under NMEICT) was organized by School of Engineering & Technology, Mody University of Science & Technology on 1st March 2019. Mr. Prateek Sharma and Mr. Ashish Mudgil (V-Lab Workshop In-charge and Mentors, IIT Delhi) conducted the full day workshop for First & Second year students (300 approximately) of SET and for engineering faculty members. This workshop was coordinated by Dr. Anil Saroliya, Associate Professor, Department of CSE, SET. The first session of the workshop is conducted for the students. The Virtual Lab project was described in detail by explaining how the VLab is developed in self-learning mode, and provides a complete 'Learning Management System' that includes web resource, animations, simulations, etc. It also provides a unified platform for students from all engineering institutes. These labs can be accessed with the help of the Internet anywhere and anytime. The main emphasis of this Virtual lab is performing all the experiments on open source tools. The second part of the workshop was conducted for SET faculty members; they were also trained in their respective subject related experiments. The session was concluded with a question/answer round.



## Workshops organized

8. A workshop on “Design Thinking” was organized by School of Engineering & Technology in association with IBM on April 20, 2019, Mr. Manish Vashist, IBM Design Director conducted the full day workshop for IET student members of SET. The event was coordinated by Dr. Anil Saroliya and 32 students participated in this synergistic event. The session was quite interactive with hands on experiences and practical applications.

Mr. Vashist introduced the students to the basics of design thinking and explained how “Design is a process rather than an outcome” through a series of fun activities. Initially, the students were divided into groups of 5-6 members and were made to decide upon different problem-statement. He taught the students to emphasize on the identification of problems rather than focusing on the solutions.



9. Five day workshop on “Data Analytics” has been conducted by IBM research center for CSE faculty members at CSE-PG Lab from 3rd June 2019 to 7th June 2019. This workshop was conducted under the MOU between Mody University of Science and Technology and IBM, which aim to develop research excellence in the area of Machine Learning and Data Analytics. The workshop was lead by the resource person Ms. Nivedita Sinha, Technical Consultant - IBM Analytics & Data Science. A total of 11 faculty members of CSE department participated in the workshop which delivered content regarding data analytics and machine learning

algorithms and gave practical exposure to the tools such as SPSS Modeler, IBM WATSON etc. used in IT industry for the same. The participants were assigned group projects on data analytics followed by a presentation on the second last day of the workshop. The predictive models as Digging deeper - ANN, Decision trees, CHAID, Time series forecasting etc has been explored in entire workshop. She had also discussed various case studies with the participants. The workshop was ended with vote of thanks by IBM coordinator Dr. Ajay Kumar Singh Associate Professor CSE Department



## Workshop on AI and Deep Learning at Galgotias University

Mody University of Science and Technology is a one of the Lead Partner of a nationwide initiative on "AI and deep learning Skilling and Research" funded by Royal Academy of Engineering, UK under Newton Bhabha. University College, London, Brunel University, London and Bennett University, India are collaborators of the project. NVIDIA and AWS Educate, Videoken and Edvantics are industry partners. On the Behalf of Mody University Dr. Puneet Kumar, Dr. Sourabh Singh Verma and Mr. Hitesh Jangir attended the workshop on AI and Deep Learning at Galgotias University, Greater Noida, U. P. during July 17, 2018 to July 19, 2018. Since the accommodation facility was not available at Galgotias University, hence we stayed in budget hotels in Greater Noida.

In this three-day workshop first two day devoted on Deep Learning and last day The NVIDIA Deep Learning Institute offers hands on training for developers, data scientists and researchers, looking to solve challenging problems with deep learning. There were around 60 participants from different colleges and universities participated in the workshop from various parts of India. Professor Deepak Garg, Director leadingindia.ai started the session. In the first half of the Day 1 Prof. Garg delivered lectures on Fundamentals and Need of Deep Learning, Machine Learning Basics, Linear Regression, Logistic Regression Gradient Descent. After Lunch Dr. Sridhar Swaminathan (Post Doc, Bennett University) delivered a talk on Designing & Optimizing Neural Network Model, Building Deep Models and Hyper Parameter Tuning & Deep Learning Hacks. The hands on exercises will be facilitated by Dr. Suneeet (Bennett University).

In Second day session started with discussion of Convolutional Neural Network & Computer Vision

with CNNs by Prof. Biswas (Retd. Professor from IIT Delhi and currently Dean at Bennett University) and in second session following topics Recurrent Neural Network Sequence Modelling with RNNs, Auto encoders, generative modelling in Deep Learning were discussed by Dr. Sridhar Swaminathan.

Day three Started with a quiz session. An online questionnaire containing 40 questions was given to participant of this workshop with time duration of 40 minutes. All three of us have cleared the examination successfully. After quiz session Hands on training Image Classification, Object Detection & Neural Network Deployment with DIGITS and Tensor RT (lab) provided by NVidia. Finally, the workshop was concluded by Pro Vice-Chancellor, Prof. Rakesh Shankar of Galgotias University.

Prof. V. K. Jain, Dean-SET and Prof. P. P. Bhattacharya attended "IOT India Congress" organized by IET and Exhibition India during 9th to 10th October, 2018 at NIMHANS Convention Centre, Bangalore. It has been a fabulous 3rd edition of the IoT India Congress with over 2,000 attendees, 113 speakers, 16 partners, 50 exhibitors and 20 supporting associations.

Prof. V. K. Jain took part in the Panel Discussion on IOT – Upskilling Higher Education as an Expert along with representatives of other sponsoring Institutes. He discussed how the concept of our Prime Minister, Sri Narendra Modi's concept on "Beti Bachao, Beti Padhao" is followed in our University since last 28 Years and how through Project Based Learning and Industry Collaborations our Institute is contributing in the progress of IoT.

Dr. Anand Sharma (Asst. Prof., CSE) has been invited as "Session Chair" to chair the session on "Next Generation Network Security" in "4th International Conference on Cyber Security (ICCS 2018)" held at Suresh Gyan Vihar University, Jaipur, India on October 26-27, 2018. The proceedings of this conference will be included in ELSEVIER-SSRN Digital Library, which is indexed in Scopus. The vision of the session was to focus on network security for the next generation, specifically on the developing security protocols to consider: new definitions of cyber security, new frameworks for the cyber security, and new directions for the awareness regarding cyber security.

Three girls Ms. Muskan Singla, Ms. Navya Marthur, Ms. Twinkle Baradia of B.Tech CSE fourth year has been shortlisted for the AICTE Vishwakarma Awards 2018. All shortlisted applicants are eligible to participate in the Regional Convention of the AICTE-ECI-ISTE Chhatra Vishwakarma Awards 2018, scheduled to be held at their Regional Venues in the last week of October 2018. They are working on pollution control sensors under Software Development Cell of SET. The top five selected teams in each category and in each region will be called for the National Convention of 2nd AICTE-ECI-ISTE Chhatra Vishwakarma Awards 2018 at AICTE HQ's in Delhi on 2nd week of November, 2018.

Dr. Niranjan Lal Chaired as a "General Chair" in International Conference on Future Computing and Communication Technology (ICFCCT-2018) held at MIET, Meerut, India on Dec 22, 2018.

