



# AMITY UNIVERSITY

Rajasthan

Cook The Code Methodologies  
fuse to solve real  
world problems

Stepping into a  
smarter greener  
world

The evolving Electro-  
mechanical engineering

# ASET TIMES

SAE Supra 2016

Soft Computing & Machine  
Learning

Gear Manufacturing

Placement 2016







Dr. Aseem K. Chauhan  
Hon'ble Chancellor, AUR

I feel proud to head a chain of institutions where we are passionate about grooming leaders who are not only thorough professionals but also good human beings with morals and values. At Amity, we benchmark only against the best institutions around the world. Our faculty and senior team travel all over the globe to learn and imbibe the best practices, so that we can provide a solid foundation for learning and overall development of the students.

Amity is the leading education group of India with over 1,25,000 students studying across 1000 acres of hi-tech campus that is why Amity University has been constantly ranked amongst the top private universities in North-India. Amity has made a global presence with 5 international campuses.

Amity has some of the most talented and dedicated thought leaders in the country who come from the best institutions around the world. Not only are they academically and professionally amongst the best, but have high standards of moral and ethical values, so that they can be true role models. I believe innovation has no substitute.

I strongly believe that it is a collective responsibility of all of us to take AUR to greater heights. We know that excellence is a journey not a destination. ASET Times can serve as a brilliant reflection of our contribution and efforts towards this journey. The success of the Magazine has been the result of committed and competent members of staff and students. I would like to congratulate the ASET Times team.



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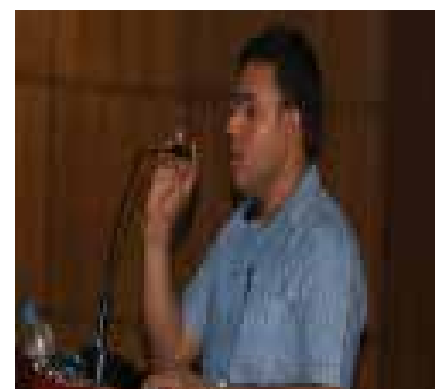
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# TECHNOLOGICAL AND INDUSTRIAL DEVELOPMENTS

SEMINAR



A National Seminar on Technological and Industrial Developments in Electro-Mechanical Engineering was organized by the Department of Mechanical and Automation Engineering, ASET on 01/04/2016 in New Moot Court, AIB. The event was a great success and attracted 133 participants from AUR and Arya Group of Colleges, Kukas. This Seminar was organized. Mr. Rajeev Dandotia, Deputy Director (Administration & Security), National Technical Research Organization (Under PMO, Govt. of India), was the keynote speaker. The event was divided into three sessions, i.e. Inaugural Session, Technical Session and Valedictory Session.

The inaugural Session which was presided over by Deputy Pro-Vice Chancellor Prof. (Dr.) G. K. Aseri. India is a land of customs, traditions and values. Therefore, first of all, lamp was ignited followed by the Gayatri Mantra. Thereafter, Dr. Rahul Singh (Organizing Secretary of the event) and Mr. Nitesh Singh Rajput felicitated the guests. Dr. G. K. Aseri addressed the students and he emphasized on the skill development of engineering students. Dr. Aseri was of the opinion that the gap between Academia and Industries should be bridged up by organizing skill development programs like Seminars, Workshops, and Industrial visits etc. on continuous basis.

### Convener

Prof. (Dr.) D. D. Shukla  
Director, ASET

### Coordinator

Mr. Abhishek Jain  
Asst. Prof. M&AE

### Co-Coordinator

Mr. S.K.Sharma  
Asst. Prof. M&AE

### Organizing Secretary

Dr. Rahul Singh Sikarwar  
Asst. Prof. M&AE

### Organizing Committee

Mr. Pankaj Agrawal  
Mr. Naveen Yadav  
Mr. Nitesh Singh Rajput  
Mr. Rishi Dewangan  
Mr. Charchil Badaya

After inaugural session, a poster presentation competition was also organized. Mr. Naveen Kumar Yadav and Pankaj Agrawal coordinated this competition. Posters related to the different domains like chiller plant, Magnetic suspension, Refrigeration, bike modification, etc. were displayed by the student participants. A panel of three Judges was formed for this competition. Dr. G. K. Aseri, Dr. Rahul Singh and Mr. Rajeev Dandotia were in the panel of Judges. On the basis of design, presentation and creativity, Mr. Arjun Sangwan secured First Position, Mr. Yuvraj Vidyadhar secured second position and Mr. Naman Lodha secured Third position.

The whole event was conducted by Mr. S. K. Sharma who introduced keynote speaker

to the audiences. Dr. D. D. Shukla, Director ASET conveyed his greetings and best wishes for the organizing committee. Mr. Rajeev Dandotia, key-note speaker of the day, a senior A-Class officer in Govt. of India was extremely overwhelmed by the hospitality of AUR. In the technical session, Mr. Rajeev Dandotia shared his valuable experiences of different countries across the world where he had travelled several times. In his session, he discussed the recent trends and future aspects of electro-mechanical engineering and its industrial applications. Mr. Rajeev Dandotia also expressed his views for the necessity of research and innovations.

Response of participants was extremely positive, which was reflected in question answer

session. In the Valedictory Session, Dr. Rahul presented a Memento to Mr. Rajeev Dandotia. Mr. Abhishek Jain presented the vote of thanks. Mr. Abhishek Jain, Coordinator of the event, on behalf of the organizing committee conveyed special thanks to Dr. D. D. Shukla (Director, ASET) and Dr. G.K. Aseri (Deputy Pro Vice Chancellor) for their valuable guidance and support.

In the last, Mr. Abhishek Jain expressed his sincere thanks to all for their support. He said that the Department feels proud to organize such a successful event and would like to convey thanks to Director and management for their timely advice and cooperation for organizing a successful event.



## Workshop on 'Computational Fluid Dynamics'



A workshop on 'Computational Fluid Dynamics(CFD)' was organised by the M&AE Department on 12 th April,2016.The speaker for the event was Dr.(Prof.) A.N.Pathak,Dean,Research, AUR.

It was an interactive and informative event where various avenues in the field of CFD was highlighted alongwith technical concepts and applications based on it.



The students were delighted to know this developing field and the speaker motivated the gathering to take up a career based on it due to its rapid evolution.

The event ended with the students grasping as much knowledge they could. The event was co-ordinated by Mr.Amit Sharma,Asst Prof,ASET and Mr.S.S.Nanda,Asst Prof,ASET.





# International Seminar on Soft Computing & Machine Learning

A two-day International Seminar on Soft Computing & Machine Learning organized by Department of Computer Science and Information Technology, Amity School of Engineering & Technology (ASET) in collaboration with Institution of Engineering & Technology (IET) and was inaugurated on 8th August 2016, 10:30 a.m. at Seminar Hall, ASET block.

Faculty of Electrical Engineering & Computer Science, VSB Technical University of Ostrava, Ostrava, Czech Republic, was the Key Resource Person for the seminar. His research interests include Numerical Optimization, Neural Computing, Brain Signal Analysis, Numerical

Prof. Sebastian Basterrech, Researcher, Department of Computer Science,



Optimization, Human-computer Interaction, Clustering, Time-Series Problems. Over 100 participants including B.Tech., M.Tech. students and PhD scholars from Amity School of Engineering & Technology (ASET) and Amity Institute of Information Technology (AIIT), Amity University Rajasthan along with students from colleges of Jaipur and Punjab and Faculty Members of AIIT and ASET attended the seminar. Following topics were covered in the seminar: Introduction to NNs, historical motivations, biological description, revisiting interesting classic literature, Different types of NNs, mainly FNNs and RNNs., Stochastic NNs: a brief introduction of Random Neural Networks, Optimization algorithms, First-order algorithms, The vanishing and exploding gradient problem, Second-order algorithms, Reservoir computing paradigm, Deep Networks, Hessian-free optimization, Metaheuristic techniques applied for improving NNs performances, Applications on real-world problems: the Internet traffic prediction, weather forecasting and brain-computer interface, A discussion of new trends and challenges on the area for the near future.



Prof. Sebastian Basterrech also offered to work in collaboration with students, research scholars and faculty members of Amity University Rajasthan in Research Projects, Paper Writing and other relevant research activities.

# INTELLIGENT CONTROLLER FOR ROBOTICS

EXPERT TALK

Likewise, he explained the permanent magnet motor concept and its advantages for moving robots. Prof. Kumar also compared different controlling methods and controllers used in robotics. Prof. Rajesh Kumar has shown some examples of controlling in robotics using intelligent tuning methods like fuzzy & neural networks, nature inspired algorithm and genetic algorithm. The audience was very keen to learn about designing a drive for robotics and its controlling methods. Additionally, Prof. Rajesh Kumar encouraged students by giving them tips to start in the field of robotics. This talk completed by an interactive session with students and faculty members.



Prof. Rajesh Kumar delivered a lecture entitled "Intelligent Controller for Robotics". This talk was attended by the students of Amity School of Engineering & Technology. It was felicitated by Mr. Ashutosh Tripathi, Assistant Professor – ASET and Mr. Sanjay Kumar Singh Assistant Professor – ASET. Prof. (Dr.) D. D. Shukla, Director, ASET, AUR, was the honorable chief guest. Sir started this talk by discussing some research projects of robotics, completed or running under his guidance in his research laboratory. He pondered on smart automatic wheelchair using brain control interface, gait analysis, smart loads for smart-grids and exoskeleton.



# POWER AMPLIFIER FOR SATELLITE COMMUNICATION

GUEST LECTURE



Prof. Raghuvir Tomar delivered a lecture entitled "Power Amplifier for Satellite communication". The event was felicitated by Facilitator of the Programme: Mr. Ashutosh Tripathi, Assistant Professor – ASET & Mr. Sanjay Kumar Singh, Assistant Professor – ASET. The guest lecture took place in : Seminar Hall, Ground Floor, Academic Block – II, Amityw University Rajasthan, Jaipur. Talk was attended by the students of Amity School of Engineering & Technology on 20-09-2016. Sir started his lecture by highlighting the various applications of amplifiers in our day to day life, after which he described the use of power amplifiers in satellite communication.

day life, after which he described the use of power amplifiers in satellite communication. He enumerated the different advantages and limitations of satellite communication. Prof. Tomar discussed his two projects of satellite communication system designing with power amplifiers using LDMOS device. Furthermore, he interacted and elucidated the importance of microwave high power amplifiers in satellite communication with the Designing & working of SATCOM system using block diagram.

In his later slides he explained about the novel devices and techniques involved in designing of satellite communication system of recent times. Students were very enthusiastic to learn about modern engineering marvels and great inventions that change the field of satellite communication. Moreover, Prof. Raghuvir Tomar shared his experience of research projects of US army & encouraged students to excel in industrial environment. The lecture ended with discussion and interaction with students.





## AMITIAN MARTIAL ARTISTS GET RECOGNITION ON A NATIONAL LEVEL



### WINNERS AT THE "FEDERATION CUP 2K16"

The members of the first martial art club in amity was winner of Nationals 2K16 Tournament name, FEDERATION CUP 2016, held at Patna. The team won Best Emerging Team 2K16. The team was co-ordinated by their coach Mr. Avinash Sarraf, who is presently a student of Amity University Rajasthan (B.Tech MAE, 7th Semester).

Special Award for the "Best Coach 2K16" by Shihan Premjit Sen, the tournament Director of Nationals 2K16 to coach Mr. Avinash Sarraf.

#### WINNERS LIST-

- 2 Gold - Avinash Sarraf
- 1 Gold - Akshay Kumar
- 1 Silver - Pragati Singh
- 1 Silver - Deepak Barwal
- 1 Silver - Sachin Ojha
- 1 Silver - Vikas Yadav
- 1 Bronze - Sahil Sisodia
- 1 Bronze - Heeral Vishal
- 1 Bronze - Deepti Barange
- 1 Bronze - Jatin Yadav
- 1 Bronze - Nikhil Kumar
- 1 Bronze - Naveen Thakur
- 1 Bronze - Pooja Barwal
- 1 Bronze - Yuvraj Gaur



- 1 BRONZE - SARAJ ALI
- 1 BRONZE - SAHU AMBI
- 1 BRONZE - PALAK GANDHI
- 1 BRONZE - DEEPTI GUR-CHAN
- 1 BRONZE - BHARGAVI PASAM
- 1 BRONZE - JYOTI BHATI
- 1 BRONZE - AKRITI PANDEY
- 1 BRONZE - KARTHIKA
- 1 BRONZE - RAVI PRAKASH
- 1 BRONZE - SIMARPREET SINGH
- 1 BRONZE - ANIL KUMAR

#### SPECIAL AWARDS: Best Emerging Team 2K16

#### Achievements of Student Coordinator: Avinash Sarraf

- 1) 3rd DAN BLACK BELT from Japan
- 2) Best Debut Coach Award 2015 by Government of India.
- 3) Special Award of Best Coach of India 2016
- 4) Administrative Vice President (BLACK BELT COUNCIL MEMBER)

- 6) Chief Judge and Referee (All India Karate Do Association)
- 7) Member of Anti-Ragging Squad at Amity University Rajasthan.
- 8) Head of Discipline Committee Squad at Amity University Rajasthan.

#### THE FOLLOWING ARE HIS MAJOR ACHIEVE- MENTS ON INTERNA- TIONAL LEVEL:

- 1) International Gold Medalist at (C.C.P. Cup) held in Sydney, Australia.
- 2) World Champion at (5th International Karate Do Championship 2010), held in Jamshedpur, India.

He also has numerous medals on his name on state level (BIHAR) and district level (PATNA), which includes gold medals at events like SKAB Championship, etc?



# WORKSHOP ON GEAR MANUFACTURING

## THE MAKING OF GEARS

Gear manufacturing refers to the making of gears. Gears can be manufactured by a variety of processes, to introduce the students to this field a workshop on Gear Manufacturing was organized by the Department of Mechanical and Automation Engineering, ASET on 13/04/2016. The event was a great success which attracted 40 participants from AUR. This workshop was conducted in Seminar Hall, ASET and Manufacturing machine Lab. Prof.(Dr.) D. D. Shukla, Director ASET was the Resource person of the event. The event was divided into four sessions, i.e. Inaugural Session, Technical Session, Practical Session and Valedictory Session. The inaugural session of the event was followed by Technical and Practical Sessions. Students were subjected to a live practical session in which they manufactured Spur Gear and Rack & Pinion on Lathe



## The Department of Mechanical and Automation Engineering

and milling machine using Teflon. The two sub components were then assembled. Later on a test was conducted in which Shah-E-Alam was the topper. The best performers were awarded by the Director, ASET. Mr. Suresh Sharma and Mr. Pooran (Lab Assistants) were highly appreciated by all for their Role/Contribution in the workshop. The event was conducted by Mr. S. K. Sharma. Dr. Rahul Singh presented a Memento to Prof. (Dr.) D. D. Shukla, Director ASET on behalf of the organizing committee to convey their special thanks for his valuable guidance and support. Mr. Abhishek Jain presented

### CONVENER

Mr. Abhishek Jain (Asst. Prof. M&AE)

### COORDINATOR

Mr. S.K.Sharma (Asst. Prof. M&AE)

### ORGANIZING SECRETARY

Mr. Pankaj Agrawal (Asst. Prof. M&AE)

### ORGANIZING COMMITTEE

Dr. Rahul Singh  
Mr. Naveen Yadav  
Mr. Charchil Badaya  
Mr. Nitesh S. Rajput  
Mr. Rishi Dewangan



# WORKSHOP ON : VHDL

## WORKSHOP

## WORKSHOP

DATE: 21ST APRIL  
FACULTY COORDINATOR: MR.SANYOG RAWAT  
STUDENTS: AROUND 40  
VENUE: LT11 ASET

COORDINATED BY: MR.SUSHIL SONI  
COMPANY: HCL

TAUGHT ABOUT VHDL WHICH IS VHSIC HARDWARE DESCRIPTION LANGUAGE USED IN ELECTRONIC DESIGN AUTOMATION.

DESCRIBES DIGITAL AND MIXED SIGNAL SYSTEM LIKE INTEGRATED CIRCUITS.

THE ADVANTAGES OF THE LANGUAGE WERE BRIEFED

- > IT IS A DATA FLOW LANGUAGE
- > VHDL PROJECT IS PORTABLE
- > VHDL PROJECT IS MULTIPURPOSE.

VHDL AS A CAREER OPTION:

IF WE PLAN ON WORKING WITH PROGRAMMABLE LOGIC VHDL IS THE LANGUAGE WE'LL HAVE TO KNOW.

LEARN BOTH AND BE EXAMINED IN BOTH.

HCL PROVIDES JOB OPPORTUNITIES FOR PEOPLE WHO ARE FLUENT WITH THE LANGUAGE AND ALSO TRAINING AND INTERNSHIPS ARE CONDUCTED FOR ONE'S WHO WANT TO KNOW MORE ABOUT THE SAME.

ALSO WE WERE TOLD ABOUT PEOPLE OF AMITY WHO ARE A PART OF HCL NOW.

# Hacking : Be A Hacker



Hacking - Be a Hacker With Ethics is aiming towards making people able to understand the actual meaning of HACKING and the word "HACK". People understand HACKING much as unethical but only the persons who are related to the security field or pursuing to come into this field, Ethical Hackers, and other active people in cyber security are familiar with the real meaning of Hacking. Especially teenagers & youngsters relate hacking to "email id or social networking hacking, website hacking, using full versions of software, free mobile internet only". Is It Hacking? I Must Say NO.

One of the major problems is that our country is not aware in the cyber security. Many people think that HACKERS are CRIMINALS. The first and foremost AIM OF THIS BOOK is to make people aware. A hacker breaks into security but also they can make the security up to that level. Indians these people are generally termed as INFORMATION SECURITY EXPERTS. It is basically about the Knowing the facts about hacking and getting started. All the contents written in the book are for educational and training purposes only.







# FACULTY DEVELOPMENT PROGRAMME

## DEVELOPMENT PROGRAMME

A Faculty Development Programme (FDP) was organised on 7th and 8th July, 2016 in Seminar Hall, ASET. Attended by faculties from various departments and institutes of the Amity University the programme was aimed at enhancing their research and teaching skills. The “Lighting of the Lamp” ceremony took place amidst the gracious presence of Prof. (Dr.) G. K. Aseri, Deputy Pro-Vice Chancellor, Prof. (Dr.) D. D. Shukla, Director, ASET, Prof. (Dr.) A.N.Pathak, Dean Research, Dr. Pankaj Kumar Pandey, HOD, Dept of Chemical Engineering and Dr. S. S. Nathawat with due adherence to Indian traditions where the dignitaries lighted the ‘diyas’.

Prof.(Dr) D.D.Shukla, Director, ASET commenced the first session with a speech on “Importance of Research in Academics” wherein he highlighted the significance of research for academicians. He expressed why it is important to incorporate research based knowledge in the academic curriculum. He shared his vast information-rich experience with the faculties who were completely overwhelmed on receiving such valuable information. Next Prof. (Dr.) Jagdish Prasad, Director, ASAS emphasised on ‘Introduction to Research Methodology’. He elaborated on the methodology that needs to be followed in for an outstanding and worthy research. The interaction with the assembled faculties was an extremely enthusiastic one. Post lunch, Dr.Tarun Sharma, AIIT delivered his presentation on ‘SPSS, LaTeX’. The session was very informative and enriching. He explained every possible aspect of the subject very well. The last session of 7th July, 2016, i.e, the first day, was on ‘Mathematical Modelling’ by Dr.

Pankaj Pandey, ASET. He demonstrated various mathematical modelling possible and the presentation was attended in utmost attention to the topic of discussion. The second day, 8th July, 2016, started off with ‘Review Papers & Reference Writing’ by Prof. (Dr.) G. K. Aseri, Deputy Pro-VC, AUR. He described in detail, the systematic approach towards review paper writing as well as reference writing for the same. The faculties were highly motivated to implement and execute such things. Following it was a session on ‘Data collection and Analysis’ by Prof. (Dr.) Jagdish Prasad, Director, ASAS who briefly summed up the methodologies of data collection and its further productive analysis. Thereafter, Prof. (Dr.) A. N. Pathak, Dean Research took a session of ‘Soft Skills’ in which it was emphasized the development of the same for the benefits of ourselves.

Post lunch, the last lecture of the FDP took place entitled ‘Plagiarism, H-Indexing & Impact factor’ by Prof. (Dr.) Deepshikha Bhargava, Deputy Director, AIIT who summarised and presented the various aspects of plagiarism and ways to avoid it. She also elaborately spoke on H-indexing and the impact factor involved. Lastly, the Valedictory session took place where the ‘Vote of Thanks’ was conveyed to the dignitaries for giving their valuable time and input as well as sharing their knowledge and experience with other faculties. The faculties who attended it were also extended a sincere gratitude for their presence there and making the FDP a huge success.

# MATLAB SEMINAR

A seminar on Wear of Dental Materials & Optimization and Simulink in MATLAB was organized by Department of Chemical and Mechanical Engg. on 9 September 2016. Around 70 students of B.Tech(Chemical & Mechanical Engg.) participated in the seminar. Dr. Amar Patnaik from Department of Mechanical Engg., MNIT-Jaipur delivered an expert talk on Wear of Dental Materials and Dr. Sushant Upadhyay, Department of Chemical Engg., MNIT-Jaipur presented some expert views on Optimization and Simulink in MATLAB. Dr. Pankaj Kumar Pandey and Mr. Abhishek Jain were coordinators for this event.





# GEAR MANUFACTURING WORKSHOP-II

## WORKSHOP

The Gear Manufacturing Workshop-II was organised from 31st August to 02nd September, 2016 by the Department of Mechanical & Automation Engineering, ASET. The event was another successful workshop of the department which had 40 participants divided into 8 groups of 5 members each. These groups were named after famous scientists of Indian origin namely Late APJ Abdul Kalam, Late C V Raman, Late Jagdish C Bose, Late H Bhabha, Late S Ramanujan, Late Chandrashekhar, Late Aryabhatta & Late S N Bose. The event was conducted in Seminar Hall, ASET & Manufacturing Machines Laboratory. The entire workshop was divided into three days of six sessions which were Inaugural, Technical, Theoretical, Practical, Competitions & Valedictory. Prof. (Dr.) D. D. Shukla, Director, ASET was the key speaker of the occasion. The event started off with the lighting of the lamp by Prof. (Dr.) D.D.Shukla, Director, ASET, Prof. (Dr.) A.K.Dua, Dy Director, ASET & Mr. Abhishek Jain, Asst Prof & Overall Co-ordinator, M&AE. Thereafter, Mr. S.K. Sharma, Asst. Prof., ASET, who was the anchor for the event, invited the speaker to initiate the technical session. Prof (Dr) D.D.Shukla, Director, ASET had an extremely interactive session with the participants and he shared his vast knowledge on the subject of the workshop as well as many guidelines from his previous work experience in the industry. He even showed a video relating to the necessity of upgradation of knowledge with due time. He asked a number of interesting questions during his speech which were very informative as well as eye-opening in the field of gear manufacturing.

Coordinator:  
Mr. Abhishek Jain,  
Asst Prof & Overall  
Co-ordinator, M&AE

Co-ordinator:  
Mr. S.K.Sharma,  
Asst Prof, M&AE

Organizing Committee::  
Mr. Nitesh Singh Rajput,  
Asst Prof, M&AE

Mr. Charchil Badaya  
, Asst Prof,M&AE

Mr. Rishi Dewangan  
, Asst Prof,M&AE

The second day of the workshop, the sessions were both theoretical and practical. The co-ordinators of the day were Mr. Abhishek Jain, Asst. Prof. , M&AE and Mr.Charchil Badaya, Asst. Prof. , M&AE. Other faculty members namely Mr.S.K.Sharma, Asst Prof, M&AE and Mr. Nitesh Singh Rajput, Asst. Prof., M&AE also assisted them. The various technical aspects and mathematical formulae related to gear manufacturing were again taught & revised with the participants. The other session consisted of manufacturing of rack & pinion gear in the milling machine. This session was carried out in Manufacturing Machines Lab and here the participants got an on-ground practical exposure to manufacture gears by themselves. The lab assistants were a great support in executing this important part of the workshop. The students were extremely excited and enthusiastic and, performed the manufacturing part with dedication and the day concluded fruitfully. The final day of the workshop had competitions like "Article Writing" & Quiz. It was conducted efficiently by Mr. S.K.Sharma in co-ordination with Mr. Abhishek Jain, Mr.Nitesh Singh Rajput, Mr. Rishi Devangan & Mr. Charchil Badaya of the M&AE Department. In the first event, the groups were told to write an article on the subject followed by a presentation in which each group was mentored by a faculty. The second event was a technical quiz and consisted of 5 rounds among the same groups. It was an extremely thrilling event and a knowledge gathering session for all. Last but not the least was the valedictory session in which prize winners of both competitions were awarded certificates of merit. For each of the two events, groups were declared as award winners. The lab assistants were also felicitated by Prof (Dr.) D.D. Shukla, Director, ASET. Likewise, he was also gifted a small token of appreciation from the M&AE Department. Mr.Abhishek Jain, Overall Co-ordinator, M&AE forwarded his sincere vote of thanks to Prof (Dr.) D.D.Shukla, Director, ASET for investing his valuable time in the workshop as well as agreeing to do so inspite of an unfortunate injury sustained by him. The 3-days workshop ended successfully and the students were highly motivated and delighted with the experience and knowledge gained.

| POSITION | ARTICLE WRITING   | QUIZ   |
|----------|---|--|
| 1st      | Sachin<br>Vinod Kumar<br>Sajid<br>Vishwas<br>Rishika Singh                        | Tushar Pareek<br>Mohit Rachh<br>Aakash Kumar<br>Rahul Dev<br>Saurav Suman          |
| 2nd      | Narayan Karnani<br>Rohit Bist<br>Yash Sisodiya<br>Aditya Malhotra<br>Rohan Mathur | Md Afsar<br>Navdeep Vaishnav<br>Anam Jaiswal<br>Awadesh Rajput<br>Sankhadeep Ghosh |



# NATIONAL WORKSHOP ON ADVANCES IN AUTOCAD

## WORKSHOP



## A Step Closer to Computer-Aided Designing

The whole event was conducted by Mr. S. K. Sharma. In the Valedictory Session, Mr. S. K. Sharma presented a Memento to Mr. Sunil Sharma. Dr. Rahul Singh presented the vote of thanks. Dr. Rahul Singh, on behalf of the organizing committee conveyed special thanks to Dr. D. D. Shukla (Director, ASET) for his valuable guidance and support.

National Workshop on Advances in Auto CAD was organized by the Department of Mechanical and Automation Engineering, ASET on 25/04/2016. The event was a great success which attracted 45 participants from AUR. This workshop was conducted in Seminar Hall, ASET and Computer Lab. Mr. Sunil Sharma, Assistant Executive Engineer in P.W.D (Government of Rajasthan) was the resource person of the event. The event was divided into four sessions, i.e. Inaugural Session, Technical Session, Practical Session and Valedictory Session. First Session of the event was inaugural Session followed by Technical and Practical Sessions. Students were subjected to live practical session in which they designed two assemblies of foot step bearing and nut-bolt assembly. This was a great learning session for the students, which was reflected by their active involvement in the workshop.

### Convener

Prof. (Dr.) D. D. Shukla (Director, ASET)

### Coordinator

Mr. Nitesh S. Rajput (Asst. Prof. M&AE)

### Organizing Secretary

Mr. S.K.Sharma (Asst. Prof. M&AE)

### Organizing Committee

Dr. Rahul Singh

Mr. Naveen Yadav

Mr. Abhishek Jain





# EVENTS of M&AE Anti-Narcotic Club

Motto of the club "Prevention is better than cure"

## WORKSHOP

Anti-Narcotic club was formed by the initiative idea of Prof.(Dr) DD Shukla & Retd. MajorGen. C.P Singh in Month of May 2016. This club was formed in AUR with the express purpose of organizing programmes like campus workshops, seminars, campaigns, Pamphlet distribution etc against alcoholism and drug abuse among various sections of society and the youth of today in particular.

Alcohol and substance abuse have become common in schools & universities, among both boys and girls. A well developed drug network functions around universities & schools to hook impressionable adolescents. There is an ever increasing need to be vigilant against these anti-social elements.

## Events:

- 1) A 'Sign Campaign' was organised on 2 nd and 3 rd May, 2016 under the aegis of this club.
- 2) A "Logo and Tagline Competition" is underway and is to be held on 10 th August, 2016 based on the theme "Anti-Narcotics".

### Committee Member:-

Anti-Narcotic Club has been formed in AUR on 4 th May 2016 to ensure a drug free AUR Campus.

### Mentors:

Dr.(Prof.) D.D.Shukla, Director, ASET  
Maj Gen C.P.Singh(Retd), DSW

### Faculty Co-ordinators:

Mr.Amit Sharma, Asst Prof, ASET  
Mr.S.S.Nanda, Asst Prof, ASET

### Student Co-ordinators:

Munish, M&AE, 5 th Sem  
Hemant, M&AE, 5 th Sem  
Abhimanyu, M&AE, 5 th Sem  
Yashdeep, M&AE, 5 th Sem

# SAE SUPRA 2016 Competition



Aerolith Racing, had successfully participated in SAEINDIA SUPRA 2016 competition held at BUDDH INTERNATIONAL CIRCUIT, GREATER NOIDA between 4 July 2016 and 9 July 2016 for the first time representing Amity University Rajasthan. This competition is a very prestigious one for students who have keen interest in the automobile industry. The main event was sponsored by MARUTI SUZUKI. Over 170 teams from all over India had participated in this competition. On day 1st, the team registered themselves, then a brief introduction was given to the captains and vice captains of all teams about the rules and regulation and how the event will proceed and finally, we were allotted our pits.

On the 2nd day at BIC they headed for the scrutiny of the cost report, business report and design report. On the 3rd day they made the F3 car ready and applied for technical inspection and after 2 hours they got the chance to present the vehicle in front of the judges. The judges were from Germany and Russia. They pointed out few mistakes that they had to correct. Due to the long queue for the technical inspection they could not apply for the second attempt. On the 4th day they again applied for the technical inspection with all the correction and then they finally cleared the round. Then they had the Egress test (In which drive has to come out

of the car in 5 second with all the safety equipment and the driver suit on).

On the 5th day they had the Noise test and that is where they could not qualify. This was a heart breaking moment as they could not go any further in the competition but now after such a wonderful experience, with the support of the University, the team has again started to work on the next car i.e. BAAZ v3.0. In SAE SUPRA 2016 COMPETITION the team secured 42nd rank all over India. The results are now available on SAEINDIA SUPRA official website and facebook page as well.







# POSITIVISM

## WORKSHOP

A workshop was organised on “Pathway to live a good life through Positivism” on 29 th April, 2016. It was organised by Mr. Mangal Singh Sisodiya, Asst Prof, ASET and Mr. S. S. Nanda, Asst Prof, ASET. The speaker for the event was Dr. S. S. Nathawat who spoke on optimism in life and guided the congregation to have a positive attitude towards life.

## OVERHAULING OF MARUTI 800 ENGINE

Prof. (Dr.) D. D. Shukla, Director ASET, Amity University, Jaipur (Rajasthan), was invited as the “Key-note Speaker” in the Workshop on “Overhauling of Maruti 800 Engine” on September 20, 2016. His expertise and experience in this field of work was an excellent addition to this event as many of the visitors and participants were looking forward to hear and learn from his work. It was an honor to invite him as the “Key-note Speaker” since he has contributed a lot in this field of work.



# WORKSHOP ON “BASICS OF AUTOCAD”

## WORKSHOP

An one day workshop on “Basics of AutoCAD” on 15/04/2016 (Friday). In the event 30 students have participated from M&AE. Mr. Ankush Sharma, Asst Prof, ASET and Mr. Pankaj Agarwal, Asst. Prof., ASET was the facilitators of the workshop. In inaugural session, a welcome speech was given by Mr. Ankush Sharma. He heartily welcomed the guest and all participants on behalf of Department of Mechanical & Automation Engineering and gave a little introduction about the workshop. Traditionally lamp was ignited by the delegates, thereafter, Saraswati Vandana was presented by Mr. Vaibhav and Mr. Vinod, IV semester, MAE and after that Dr. Rahul Singh, Asst. Prof., ASET felicitated the guest. Dr.(Prof) D D Shukla, Director ASET expressed his concern about the advancement in the technology and importance of Design and analytical softwares in Mechanical Engineering.

The workshop was conducted in three sessions in first session Introduction about AutoCAD and commands were discussed. After that students prepared drawing using command. In second session basics of 3D command were discussed and in the third session a test has been conducted in that students have to prepare different views of the given drawing using knowledge that they have learned in the workshop.

The main purpose for organizing this workshop was to get knowledge about how to develop the skill in Building designing in AutoCAD. The whole session was very informative. The participants enjoyed the session and appreciated the training methodologies.

The main purpose for organizing this workshop was to get knowledge about how to develop the skill in Building designing in AutoCAD. The whole session was very informative. The participants enjoyed the session and appreciated the training methodologies.

During whole session all faculties of MAE were involved enthusiastically and keenly to make the grand success of event.

Convener :  
Dr. D D Shukla  
Director, ASET

Coordinator:  
Mr. Ankush Sharma  
Mr. Pankaj Agarwal

Organizing Committee  
Mr. Mangal Singh Sisodiya  
Mr. Laxman Kumar Pandey  
Mr. Amit Sharma  
Mr. Deepak Kachhot  
Mr. S S Nanda

# FUTURE ENDEAVOURS

The M&AE Department has undertaken three future projects as follows:

- SAE SUPRA Car for 2017 Competition under faculty co-ordinators Mr.Mangal Singh Sisodiya, Asst.Prof, ASET and Mr.Ankush Sharma, Asst Prof, ASET. Student co-ordinator is Mr.Dushyant Sarvayia, 7th Semester.

- SAE BAHA Car for 2018 Competition under faculty co-ordinators Mr.S.S.Nanda, Asst Prof, ASET and Mr.Amit Sharma, Asst Prof, ASET.

- The above two projects are under overall co-ordinator Dr.(Prof) D.D.Shukla, Director, ASET.

- GO KART Car for ISK-2017 competition under faculty co-ordinators Mr.Abhishek Jain, Asst. Prof, ASET and Mr.Nitesh Singh Rajput, Asst Prof, ASET. Student co-ordinator is Mr.Yash Sisodiya, 5th Semester.

## INDUSTRIAL VISIT

The M&AE Department is about to organise an Industrial Visit to Parle-G Ltd., Neemrana on the 24th of August, 2016. It will be co-ordinated by Mr.S.S.

Nanda, Asst Prof, ASET and Mr.Amit Sharma, Asst Prof, ASET.



# CODOTHON

## COMPETITION

CodeChef is a global competitive programming platform which supports over 35 programming languages and has a large community of programmers that helps students and professionals test and improve their coding skills. CodeChef Campus Chapters aim at promoting competitive programming in various colleges and schools around the world and help students become better at problem solving which goes a long way in learning as well as in their career development. Codothon programming event was held on 6th April 2016 conducted under CodeChef Campus Chapter Domain.

The following are the points table for the first round:



### Convener:

Prof.(Dr.) A. K. Dua (HOD, CSE/IT and Dy. Director ASET)

### Organizer of Event and Chapter Adviser of CodeChef:

Mr. Anil Saroliya (Asst Professor and Programme Coordinator, CSE, ASET)

### Faculty Coordinator :

Mr. Varun Sharma (Asst Professor and Department Coordinator, CSE, ASET)

### Students Coordinators :

Sachit Kumar 8th Sem  
Nagendra Singh CSE 8th Sem  
Vaibhav Zambad CSE 8th Sem  
Aayushi CSE 6th Sem  
Kaumudi Dadu CSE 6th Sem  
Utkal Sharma CSE 6th Sem  
Gajendra Singh CSE 4th Sem  
Shimona Gupta CSE 4th Sem  
Prayas Mittal CSE 2nd Sem  
Mansi Mehta CSE 2nd Sem  
Shreya Gupta CSE 2nd Sem  
(Students of B.Tech(CSE))



After the first round, a total of 35 teams qualified for the Final round which was held on 6th April, 2016 between 1:30 pm and 5:00 pm. Separate questions were set for both juniors and seniors and they were given 3 questions to win the battle. They all tried their level best to solve the questions in time and a few of them succeeded.

The event as a whole was very exciting and very informative. We thank the organizing committee for all the hard work and dedication put in by them.

The event was divided in two parts. The qualifying round which was held on 4-5 April 2016. It's a 26 hour round which started on 4th April 2016 at 4:00 pm and ended on 6th April 2016 at 6:00 pm. This round was also categorized in two parts one for the juniors (1st and 2nd year) and the other for seniors (3rd and 4th Year). Our main aim in dividing the first round in two parts was to give equal opportunity and motivate 1st and 2nd year students about programming. In juniors competition there were 38 teams and in seniors there were 20 teams participated. They all were given six problems.





Abhishek Jain - CSE  
 Amit Mehta - CSE  
 Anantaneni M. Kumar - CSE  
 Anchit Arnav - CSE  
 Avdhesh Kumar Sharma - CSE  
 Gautam Sharma - CSE  
 Kanika Saraswat - CSE  
 Kaumudi Dadu - CSE  
 Kulgaurvi Tak - CSE  
 Lakshay Parnami - CSE  
 Mahendra singh Rathore -CSE  
 Prateek Kumawat -CSE  
 Ritu Singh -CSE  
 Virendra Sihag -CSE  
 Y Raghavendra -CSE  
 Gundimeda Anirudh -CSE  
 Dhruv Rawal -CSE  
 Harsh Vijay -CSE



DECIDE.  
 COMMIT.  
 SUCCEED.

Aakansha Sharma -CSE  
 Aayushi -CSE  
 Abhinav Chandra -CSE  
 Akash Galav -CSE  
 Akshay Gupta -CSE  
 Aleesha Yadav -CSE  
 Avleen Singh -CSE  
 Burra Sravan -CSE  
 Gaurav Rautela -CSE  
 Gunish Chawla -CSE  
 Pooja Sharma -CSE  
 Poorva Joshi -CSE  
 Prakhar Goyal -CSE  
 Pratik Agrawal -CSE  
 Priyal Saxena -CSE  
 Sharthak Pundir -CSE  
 Saurabh Yadav -CSE  
 Uday Verma -CSE  
 Utkal Sharma -CSE  
 Anupam Pareek -IT  
 Harshita Chittlangia -IT  
 Mayank Khunteta -IT  
 Ayush Agrawal -ECE  
 Heena Dhabhai -ECE  
 Veruva Venkata Sai Prem  
 Chandu -ECE  
 Kushagra Dixit -ECE  
 Rimsha Mariam Alam -EEE  
 Jereddy Mnaoj -MAE  
 Yogindrer Thakur -MAE  
 Rahul Bandral -MCA



**“IT’S NOT  
 ABOUT IDEAS.  
 IT’S ABOUT  
 MAKING IDEAS  
 HAPPEN.”**

“No matter how big  
 a crowd may be,  
 a person like you  
 always stands out;  
 There’s no one who  
 has worked as hard  
 as you have in the  
 last years. Now your  
 efforts have paid off.  
 CONGRATS!”



A. Ravi Teja -CSE  
 Hitakshi Mahajan -CSE  
 Lakshat Parnami -CSE  
 Stuti Pindawala -CSE  
 Suraj Prakash Tarani -CSE  
 Vishnavi Ray -CSE



\*data as of 20/09/2016



# ENGINEER'S DAY CELEBRATED

## CELEBRATION

Engineer's day was celebrated on 15 th of September at Amity School of Engineering and Technology in remembrance of Sri. M. Vishveshvaraiah, who was an Indian engineer, scholar, statesman and the Diwan of Mysore. The event began with the garlanding

of the portrait of Sri. M. Vishveshvaraiah by Prof. (Dr.) D. D. Shukla, Director ASET, Amity University, Jaipur (Rajasthan), who then gave the welcome speech. After the ceremony, Vaishnavi Ray, student of Computer Science and Engineering, 7 th semester,, shared her experiences and journey of becoming an engineer. Then a competition was held amongst the engineering students of amity.

The winners of the competition were awarded with gifts and certificates.

“ The Human Foot Is A Materpiece Of Engineering And A Work Of Art





# SOCTA 2016

WORK PLACE



The term soft computing represents an umbrella term for computational techniques like fuzzy logic, neural networks and nature inspired algorithms. In the past few decades there have been an exponential rise in the application of soft

computing techniques for solving complex and intricate problems arising in different spheres of life. The versatility of these techniques have made them a favorite among scientists and researchers working in diverse areas.

SoCTA, an international conference being organized at the Amity University Rajasthan, Jaipur.

The objective of SoCTA 2016 is to provide a common platform to researchers, academicians, scientists and industrialists working in the area of soft computing to share and exchange their views and ideas on the theory and application of soft computing



“ Soft Computing:  
Theories and Applications

techniques in multi disciplinary areas.

The aim of the conference is to highlight the latest advances, problems and challenges and to present the latest research results in the field of soft computing with a link to scientific

research and its practical implementation. SoCTA especially encourages the young researchers at the beginning of their career to participate in this conference and invite them to present their work on this platform.

More than 200 researchers from all over the world will be interacting and exchanging their ideas and work through presentations, seminars, keynotes and workshops. The proceeding of the conference will be published in Springer (AISC).

| CATEGORY            | Indian Author | Foreign Authors | IET/IETE Authors |
|---------------------|---------------|-----------------|------------------|
| Student Author      | Rs 4500       | USD 150         | Rs 4000          |
| Regular Author      | Rs 8000       | USD 400         | Rs 7000          |
| Extra Paper Charges | Rs 4000/paper | USD 150/PAPER   | Rs 3500/Paper    |
| Extra Page Charges  | Rs 1500/Pages | USD 75/PAGE     | Rs 1500/Page     |
| Only Attending      | Rs 1500       | USD 75          | Rs 1500          |



# SCILAB:

## AN OPEN SOURCE SOFTWARE FOR ACADEMICS AND RESEARCH

### DEVELOPMENT PROGRAMME

The Department of Computer handling, User Defined Input Science & Engineering, Am- and Output, Integration, Solv- ity School of Engineering and ing Nonlinear Equations, Linear Technology(ASET), organized a equations Gaussian Methods, Faculty Development Programme Linear equations Iterative Meth- (FDP) on "SCILAB: An open ods, Interpolation, ODE Euler source software for academics and methods, Control systems, Dis- crete systems, Calling User De- research" on 12th July 2016.

The FDP was organized in asso- ciation with The Spoken Tutorial The day's proceedings com- project of MHRD, Govt. of India menced with the inaugural ses- sion at 10:00 a.m., Seminar Hal, teaching and learning a particular Ground Floor, ASET Block. Prof. FOSS (Free and Open Source Soft- (Dr.) D. D. Shukla, Director ASET ware) via an easy audio-visual tool. and Convener of the FDP wel- The FDP aimed at stimulating dis- comed the participants with his cussions on various research appli- address. Dr. A. K. Dua, Dy. Di- cations and new directions in the rector ASET and Co-Convener of the field of SCILAB which is an open FDP expressed through source software, very useful for his address the need for conduct- modeling, computing and simula- ing such FDPs, followed by the tion purposes. It could also be use- address of Prof. H. S. Sharma, ful in data analysis and applied nu- H.O.D., Department of Civil En- merical work in both research and gineering. The coordinator of the teaching.

The workshop incorporated topics participants about the Spoken Tu- like SCILAB :Introduction, Vector torial Project of MHRD and ex- Operations, Matrix Operations, plained the basics about SCILAB Scripts and Functions, Conditional through his presentation. The Branching, Iteration, Plotting 2D training was conducted through a graphs, XCOS Introduction, File 2 hour FDP in computer labs.



The day concluded with the valedictory session where the participation certificates were distributed to the participants. 47 participants from ASET and AIIT participated in the FDP. The conduction of FDP was coordinated by Mr. Anil Saroliya, Mrs. Preeti Gupta, Mr. Sanjay Jain and Mr. Jitendra Rajpurohit from the Department of Computer Science & Engineering, ASET.





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What is Done if it's not known to all about who actually did it?

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# Got Some News ?

## Employee of The Month



**S.K. Sharma**

MAE - May



**Preeti Gupta**

CSE - June



**Pankaj Sharma**

Civil - July



**Ashiwini K. Yadav**

ECE - August



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# ASET TIMES



AMITY UNIVERSITY  
—Rajasthan—