

AMITY UNIVERSITY  
—Rajasthan—

Amity Leadership Fest  
Bring Out the Leader in You

# ASET TIMES

Vol. 1.1  
March 2016

Aerolith Racing  
Motorbike Overhauling Workshop

Glimpses of Technology  
Expanding Possibilities







**Prof., (Dr.) S. K. DUBE**  
**Hon'ble Vice Chanscellor, AUR**

On the occasion of the 1st edition of 'ASET Times', I wish to congratulate the H.O.D.'s , teaching and non-teaching staff, the students for working hard at keeping ASET at the top. I have great pleasure in conveying my best wishes to all of you. Education should include all round development of the individual, because that is the goal of education. This will require tremendous self motivation on the part of all concern but will be fulfilling for the student as well as the faculty. I believe this magazine will provide as the benchmark for continued improvement in overall development of the college. I appreciate the efforts of the editorial team to have done an excellent job in compiling ASET activities over the quarter and disseminating them through this magazine.



**Prof., (Dr.) S. L. KOTHARI**  
**Hon'ble Pro Vice Chanscellor, AUR**

ASET has always been a trendsetter but what has also been noteworthy is the excellent support and commitment of the non-teaching staff. I wish to congratulate the entire faculty and the other staff for encouraging and guiding the students in all facets, for their well-rounded development. I am elated to know about this endeavor by faculty and students of ASET to create this magazine. This magazine should be a good source of guidance for faculty and coming batches of students in choosing activities of their choice in their future for building their careers. I wish you all the best for achieving greater success and scaling newer heights in your education and career ahead.





Prof., (Dr.) D. D. SHUKLA  
Hon'ble Director - ASET

The vision we had for this magazine seemed far-fetched but with the efforts of the faculty and students, this magazine has come out successfully beyond our expectations. In order to accomplish our vision and mission, we are prepared to take as much effort as possible for the betterment of academic scenario in the institute. We believe that education is an effective medium of social transformation. We all have to ensure that there is no stone left unturned to equip the students of today for the challenges of life. We feel proud to act as contributors of this social transformation.

*God bless!!*



# CONTENTS

Aerolith Racing	1
Web Designing	2
Amity Leadership Fest	3-4
Amitians at IIT, Madras	5
HackerCup India 2016	6
Glimpses of Technology	7
Working Model Prototype	
Java Jazz	
SAP 2016	9-10
ATV	11
Student Formula 3 Car	12

Spoken Tutorials	13
The Alchemist's Session & Electrochemistry Workshop	14
Workshop on 3D Printer	15
DKOP Labs Pvt. Ltd.	16
Accenture Campus Meet	17
Vision World Tech Pvt. Ltd.	18
HackOgraphy	19
Sewage Treatment Plant	20
Multigeneration Technology	21-22







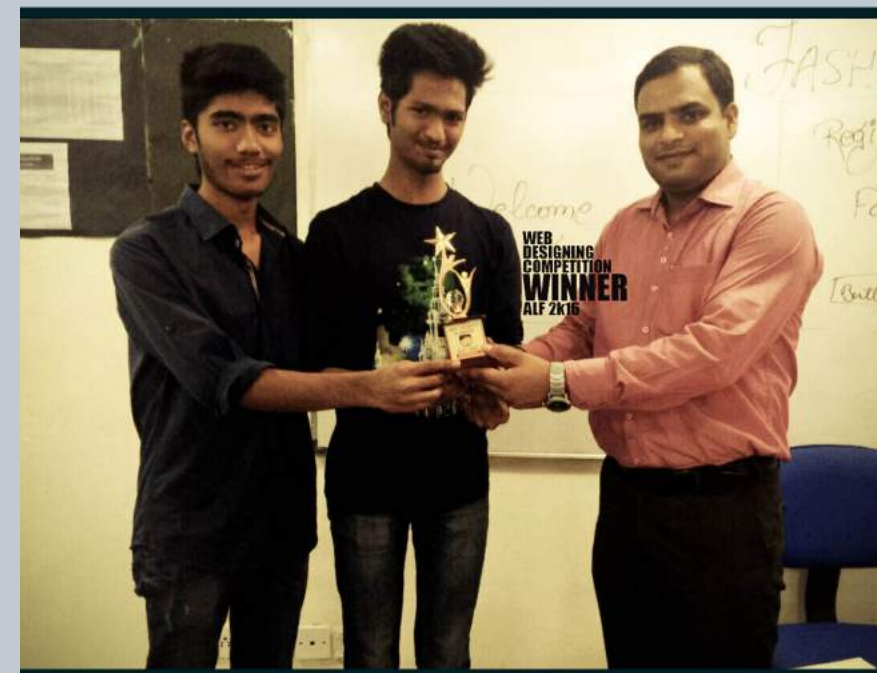
# Aerolith Racing

Aerolith Racing, of our very own ASET Department is the only team that participated in Supra, a competition for modelling and simulating formula type race cars. They organized a Motorbike Overhauling Workshop on the 10th of March of this Spring. The Workshop was a two day event where-in students from Mechanical Department as well as the Chemical Engineering Department had participated. In association with PrigmaEdutech Services, the workshop was a phenomenal success where “It was very interactive and educative” was on one end of the feedback spectrum to “Simply Phenomenal!” on the other. The workshop enabled students to see and

understand the internal workings of the two-wheelers as they were dismantled part by part. The objective of the workshop was to bridge the “Application-Theory” Gap with ease – a plus for both the Students and Aerolith Racing; a win for the ASET Department in all.

## Designing Enthusiasts competed against each other in the war of Web Designing.

Held on 17th march 2016, coordinated by “Shobhi Maheshwari” and “Ankita Mishra” and judged by “Mr. Varun Sharma” & “Mr. Anil Saroliya”. It consisted of two rounds. Five teams qualified



for final round and the winners were “Utkal Sharma” and “Gaurav Rautela” of 6th Semester, B.tech-CSE and the runner ups were “Pratibha Chaudhary” and “Panma Kango” of B.tech-CSE 8th Semester. The other participants were rewarded with certificates.



Amity University Rajasthan conducted two Days of iconic cultural, educational and technical Fest – Amity Leadership Fest on 17th and 18th March, 2016 with the help of Mr. Varun Sharma, Proctor- ASET & member-core committee, ALF2k16. The whole Amity campus turned in festive temper with strong participation from students of Amity and other universities and institutions who participated in various events. Manipal University, JECRC, ICG, Poornima were some of the prominent institutions took part in ALF 2016. Our Honorable Vice Chancellor Dr. S.K.Dube inaugurated the event by releasing colored balloons along

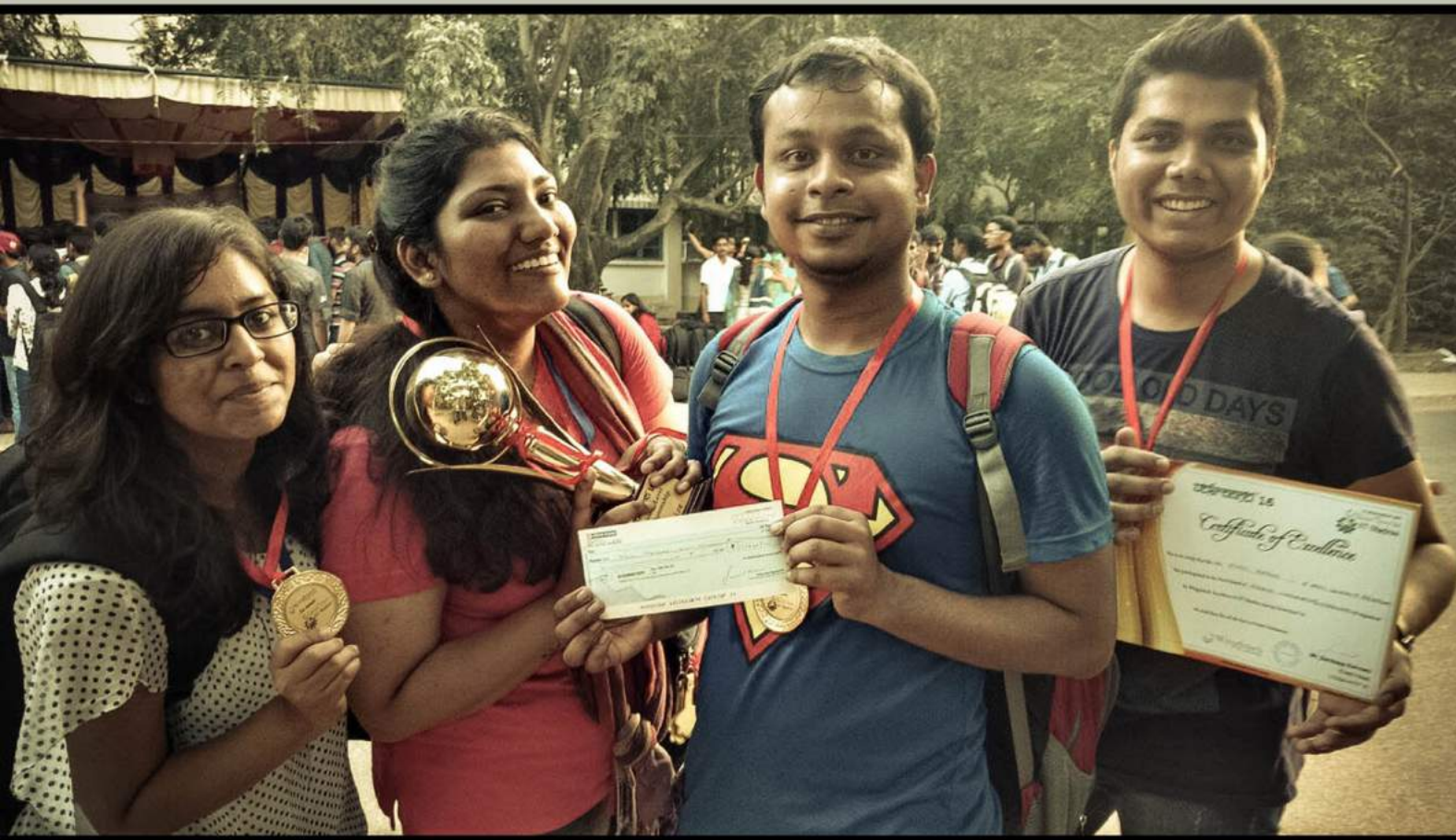


with other dignitaries, faculty members, student volunteers and participants.

ALF 2k16 comprised of various events hosted by different departments of Amity University. The major events were AD-MAD Show, Tech-o-Mania, Code War, Dress the Prop, Urban's Chef, Working Model Prototype, Nukkad Natak, Junkyard Wards, Tech Quiz, Art and Mind, Robo Line Follower, Green Explorers, Fashion Show, Singing & Dancing events, War of DJ, Film Festival, Rangoli, Cellframe, O Marry-Ahh, VJ Hunt, Debugging, LAN Gaming, Shootout Shoot Your Skills, Castle Making, Bisaat, Spell Bee and Beg Borrow n Steel.

Everything that you need and want to know.





## Laurel Won by Amitians at IIT, Madras.

Four students of CSE Department, Ms. Smriti Agrawal - (B.Tech CSE VI Sem), Mr. Lakshay Parnami - (B.Tech CSE VI Sem), Mr. Saurabh Yadav - (B.Tech CSE VI Sem), Ms. Sakshi Gupta - (B.Tech CSE II Sem) secured first position in the technical festival, Utkranti '16 organized in ChemClavee '16, IIT Madras on 5th and 6th March 2016. The team exhibited their exceptional skills in developing the Android Application "Messify" (An application for getting mess updates for hostellers). Moreover, the work of other two teams of ASET should also be praised as they reached the semi-final round of the competition.

## The Ethical Hackers of Amity Jaipur- bagged prizes at HackerCup India 2016

HackerCup India 2016 organized by CCFIS (Cyborg Cyber Forensics & Information Security Pvt. Ltd.) was held at Amity University, Noida. Approx. 200 participants took part in HackerCup India's CTF (Capture The Flag) event



CTOs and CIOs of leading organizations like VMWare, Vodafone, etc. were a part of HackerCup India 2016. 11 students from Amity University Rajasthan also won Prizes in the CTF. The top 10 are as follows:

### Harsh Bothra:

B.tech CSE (2nd Sem) became 5th runner up & was awarded with a trophy along with a Lenovo tablet & 2 certificates.

### Nagendra Singh:

B.tech CSE (8th Sem) acquired 12th position & was awarded with a trophy along with 2 certificates.



# Glimpses of Technology



## Working Model Prototype Competition

Harsh Bothra - 2nd Sem (CSE) and Rohit Parakh Jain - 2nd Sem (MAE) stood second in Working model prototype competition held at Amity University Rajasthan during Amity Leadership fest 2k16.

which can remotely connect-ed from any-where. Just need to have active in-ternet connec-tion. Also that robot car is able to hijack and sniff into net-work so it can also be used for cyber security purpose.



## Java Jazz

Held on 17th march 2016, coordinated by “Somya Bhadauria” and “Prathibha Chaudhary” and judged by “Mr. Anil Saroliya” and “Mr. Sanjay Jain”.

It consisted of three rounds. Five teams qualified for final round and the winners were “Iksha Sinha” and “Nitin Handa” of 4th Semester B.Tech-CSE and the runner ups were “Shobhi Maheshwari” and “Panma Kango” of B.Tech-CSE 8th Semester.

The other participants were rewarded with a certificate.

The competition was to create a glimpse of technology and that must be practically working. The students took part as a team and made a RaspberryPi based





# SAP 2016

## (Study Abroad Programme)



A guest lecture was organized on 29 February, 2016 in the New Moot Court by **Prof. (Dr.) Abhay Bansal**, B.E (Computer Science), M.E (IT), MBA, Ph. D, HOD, CSE, Joint Acting Head, Amity School of Engineering & Technology, Director, International Collaboration for Engineering & Technology. This event was co-ordinated by **Mr.-Varun Sharma**.

Amity University has a great curriculum backed by excellent faculty and world class infrastructure. The most exciting thing

about the university is its ability to give the students international exposure. The Salient Features of this program were to familiarise students with the following:

- Special modules delivered by the Industry experts and Leading foreign faculty.
- Industry Visits.
- Extensive Project Reports.
- Global experience, learning environment and platform.
- Industry dynamics and trends on a global scale.
- Build Network with International Faculty and Students.



# ATV

A vehicle which can conquer any terrain from the mountains to the sands !

Students of MAE are set to create an all-terrain vehicle (ATV), also known as a quad, quad bike, three-wheeler, four-wheeler, or quadricycle is defined by the American National Standards Institute (ANSI) as a vehicle that travels on low-pressure tires, with a seat that is straddled by the operator, along with handlebars for steering control.

They are working under the guidance of **Mr. Abhishek Jain** and **Mr. Nitesh Singh Rajput**

## Aim:

- To design and manufacture a cost effective and high performance ATV.
- To learn how to design and manufacture a vehicle.
- To use the durable and cost effective material in building the chassis.



# Student Formula 3 Car

To be unveiled anytime soon, **BAAZ V2.0** would be the first Student Formula 3 car from Amity University Rajasthan to compete in the SUPRA 2k16, organized by SAE India. **Aerolith Racing**, a team of students of Mechanical and Automation Engineering Department of ASET has come together to bring their brain-child to life and to prove their mettle in the nationwide competition at Buddha International Circuit in this summer of 2016. The team has put their heart and soul and worked days and nights alike to make their dream a reality. BAAZ V2.0, as they call it, is powered by a KTM Duke 390's 390cc, 43bhp engine. Governed by center-shafted rack and pinion steering system and most advanced pushrod suspension system with customized shock absorbers would make the car steer as if it were on rails. Packed with Nitrogen Gas filled cushions, Memory Foam Seats, Z-links and many more of such breakthrough innovations, BAAZ won't let you ask "What's New?". Supported by big shot corporates such JK Tyres and Reliance, BAAZ and **Aerolith Racing** are about to prove their name's worth.



The students of B.Tech MAE, CSE, Civil (VI Semester) engineering attended the workshops in the domain of open source programming technology in C/C++ and Python on February 10th, 15th and 19th, 2016 respectively. The said workshops were held with Spoken Tutorial Project, an initiative of the “Talk to a teacher” activity of the National Mission on Education through Information and Communication Technology (ICT), launched by the Ministry of Human Resources and Development, Government of India.

## Spoken Tutorial Workshop



The pivot of the workshops **Mr. Anil Saroliya**, Assistant Professor, AUR on successful completion of the workshops briefed that such workshops are extremely essential.

**Prof. (Dr.) A. K. Dua** concluded that such events will be made an integral part of the AUR curriculum

## The Alchemist's Session

An enriching workshop on Electrochemistry for Chemical Engineers and its application in Nanotechnology by Dr. Arun Prakash Upadhyay (IIT Kanpur) was held on 18th Feb. 2016. Students of B.Tech (Chemical Engg.) and M.Sc. (Applied Chemistry) attended this workshop under the auspices of faculty members of both dept. and with the coordination of Dr. Pankaj Kumar Pandey, Dept. of Chemical Engg., ASET-AUR.

## Workshop on Electrochemistry for chemical engineers & it's application in nanotechnology



The presentation covered various aspects such as Research and Development (R&D), the role of R&D in society improvement and engineers in R&D. Different areas of R&D where

chemical engineers play an important role were shed light upon like the of chemical engineers in the field of nanotechnology and solar light harvesting.



# Workshop on 3D Printer



Department of Mechanical and Automation Engineering, ASET had organized a one day workshop on 3D printer on 08/03/2016 in New Moot Court, AUR. Over 150 students participated from MAE department. Welcome speech was given by Mr. Mangal Singh Sisodiya, Overall Coordinator MAE department. Dr. D D Shulka, Director ASET expressed his concern about the advancement in the technology and importance of 3d printing in the manufacturing. Event was divided in two session. In first session Introduction about 3D printer, technology and challenges were discussed by Mr. M. Sugumaran (key note speaker) and in second session

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

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

Organizing Committee: Mr. Mangal Singh Sisodiya  
Mr. Ankush Sharma  
Mr. Laxman Kumar Pandey

## DKOP Labs Pvt. Ltd.

The session with Bharat Singh from Dkop labs which is diverging itself and providing students and institution a new era of semiconductor industry and about the growth and vast development all over the world. And it clarify the vision of NEP-“To create a globally competitive electronics and manufacturing industry to meet the country’s need and serve the international market”. It Mainly satisfies the feature dreams of curious minds and need of biggest customer in the world and is increasing exponential, India which graps almost 10-12% of 368 billion industry, so to encourage the student and giving knowledge to student and minimizing the gap between education system and the industry, so that we can serve our nation in a better way and

enlarge the brilliant minds, engineers to crystal clear vision for new developing India. The motive of the workshop was to boost the students for fulfilling the industry needs and can cope up while working with them in future. And encourage the vast crowd of mainly ECE and EEE students by realizing the shocking estimated figure of semiconductor industry by 2020.



# ACCENTURE CAMPUS MEET

Students of AUR attended a Guest  
lecture at AUUP

Amity in association with Accenture organized an informative and interesting lecture by Dr. John Williams-Professor of Information Engineering, Civil and Environmental Engineering, MIT, USA on “Interface of Men with Machines and the growing importance of Machines” at Amity University Uttar Pradesh, Noida on 18-March, 2016.



About 100 students from Computer Science Engineering, IT and Electronics and Communication Engineering along with four faculty members, viz. Mr. Kumar Vaibhav, Mr. Sudhanshu Singh, Mr. Virender Singh and Mr. G.L. Saini attended the lecture.

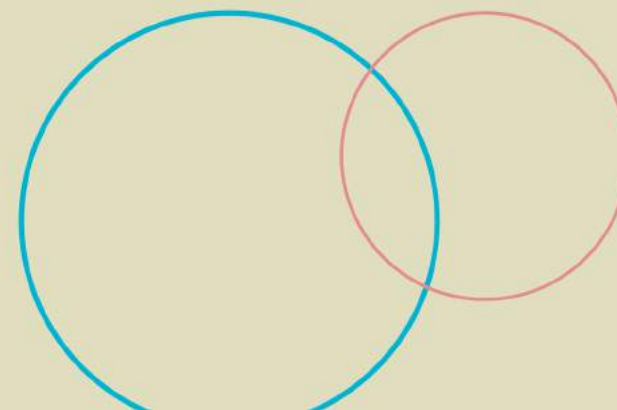


Embedded system plays a vital role in the field of electronics and attending the workshop and organizing it was a great pleasure. The workshop was attended by 80 students of ECE and EEE branch and hosted by Maninder Singh who came from 'Vision World Tech Pvt. Ltd' and share his deep knowledge from the field of microcontroller along with embedded system. The main aim of the workshop was to provide practical knowledge to the students.

## VISION WORLD TECH PVT. LTD.

The session delivered elementary exposure to the Arduino and Proteaus environment and practical demonstration of several embedded projects. The workshop was quite interactive and exhibited how technology can be implemented in the real world.

The outcome of the session was providing students realization of difference between practical and theoretical knowledge and how it can be realized in daily life application.





A one day workshop on Cyber security and ethical hacking was held in Amity University Rajasthan on 15th March, 2016.

The workshop was delivered by a team of students who are working in various fields of cyber security. The session covered practical aspects of cyber threats and real time hacking.

More than 60 students from Technical as well as Non-Technical branches attended the session and thus made the event successful. A competition '**HackOgraphy**' was also conducted during the Amity Leadership Fest to test the knowledge of the students they gained during the workshop.

The team members who delivered the workshop are part of CCFIS Cyber Army and are the Student Ambassadors of CCFIS. **Cyborg Cyber Forensics and Information Security Pvt. Ltd. (CCFIS)** is an Amity based company which deals with various Infosec and Cyber

Forensics cases. It provides various training programs to students, professionals and their ambassadors.

# HackOgraphy!

## Team Details :-

Ishaan sharma - 8th sem (cse)  
Ravi rana- 8th sem (cse)  
Sachit kumar - 8th sem (cse)  
Nagendra singh- 8th sem (cse)  
Utkal sharma - 6th sem(cse)  
Vishal aaditya - 6th sem (cse)  
Aleesha yadav - 6th sem (cse)  
Kaumudi dadu - 6th sem (cse)  
Harsh bothra - 2nd sem (cse)  
Prayas mittal - 2nd sem (cse)

Among the various activities for the students, the Industrial Visit is definitely one of the biggest and best things that happen. As the main aim of university is to go beyond academics in all possible ways, these visits have always offered insights to students about the practical applications of their theoretical knowledge.

An Industrial visit was organized for B.Tech VI & VIII semester Civil Engineering students by Amity School of Engineering & Technology under Amity University Rajasthan on Thursday, 28th January 2016. There were 101 students who attended the visit which was accompanied by Mr. Pankaj Sharma, Ms. Nidhi Gupta, Mr. Ravi Kumar Makode and Mr. Abhishek Srivastava (Faculty members) and Mr. Manoj Kumar Yadav (Technical Assistant). This visit was possible due to sincere efforts of Prof. Hari Shankar Sharma (HOD Civil Engineering, ASET) at Amity University Rajasthan. The students became familiar with the working principle and

## A REPORT ON INDUSTRIAL VISIT

Sewage Treatment Plant, Delawas, Pratap Nagar, Jaipur

functions of various units of treatment plant such as screens, grit chamber, primary clarifier, aeration tank, secondary clarifier, sludge digester, etc. The visit was quite helpful for the students to get the practical knowledge regarding the functioning and process of municipal waste water treatment plant. The students were highly enthusiastic and asked questions which were answered to the utmost satisfaction of the students.

Aeration Tank in Function



View of Aeration Tank & Power generation unit & Gas Holding Tanks 62.50 MLD STP DELAWAS



# SEMINAR ON MULTIGENERATION TECHNOLOGY FOR DECENTRALIZED ENERGY GENERATION



Department of Mechanical and Automation Engineering, ASET had organized a one day seminar on multi-generation technology for decentralized energy generation on 09/03/2016.

A seminar was organized in New Moot Court AIB. The event was successful enough to attract as many as 96 registrations for one day event. **Dr. K.K. Khatri**, Associate Professor LNMIIT University, Jaipur was the keynote speaker of the Event. Session of the event was inaugurated with the traditional lamp lightening by delegates, Thereafter; Sarswati Vandana was presented by **Miss. Kartika**. **Dr. Rahul Singh**, organizing Secretary of the Event felicitated the guests.

**Mr. S. K. Sharma** introduced keynote speaker to the audiences. In inaugural Session, **Dr. DD Shukla**, Director ASET expressed his concern about the need of skill development for engineering graduates. Director ASET also emphasized on the significance of core domain expertise for a technical student.



In the technical Session, **Dr. K.K. Khatri** explained that due to faster depletion of petroleum resources, there is an urgent need to look for alternate economically viable sources. **Dr. Khatri** discussed the various technologies that can be employed for waste recovery in the boilers, engines and other thermal systems. Waste heat recovered can be

utilized for cooling, heating and power generation, simultaneously. It will increase the efficiency of a thermal system with cost optimization. He also discussed that best way to reduce harmful emissions is to minimize the use of non renewable resources.

In the question answer Session, Students **Mr. Naman Lodha**, **Mr. Gaurang Sharma**, **Mr. Rajan**



**Tripathi**, **Mr. Arjun Sanwan** and others discussed their queries with the keynote speaker. Different research areas like earth tube heat exchangers, Chiller plant, and Solid Waste management were discussed by the students. In the Valedictory Session, **Mr. S. K. Sharma** presented a Memento to the **Dr. K. K. Khatri**.

In the last, **Mr. Abhshek Jain** expressed his sincere thanks to all for their support. He said that 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 successful event.



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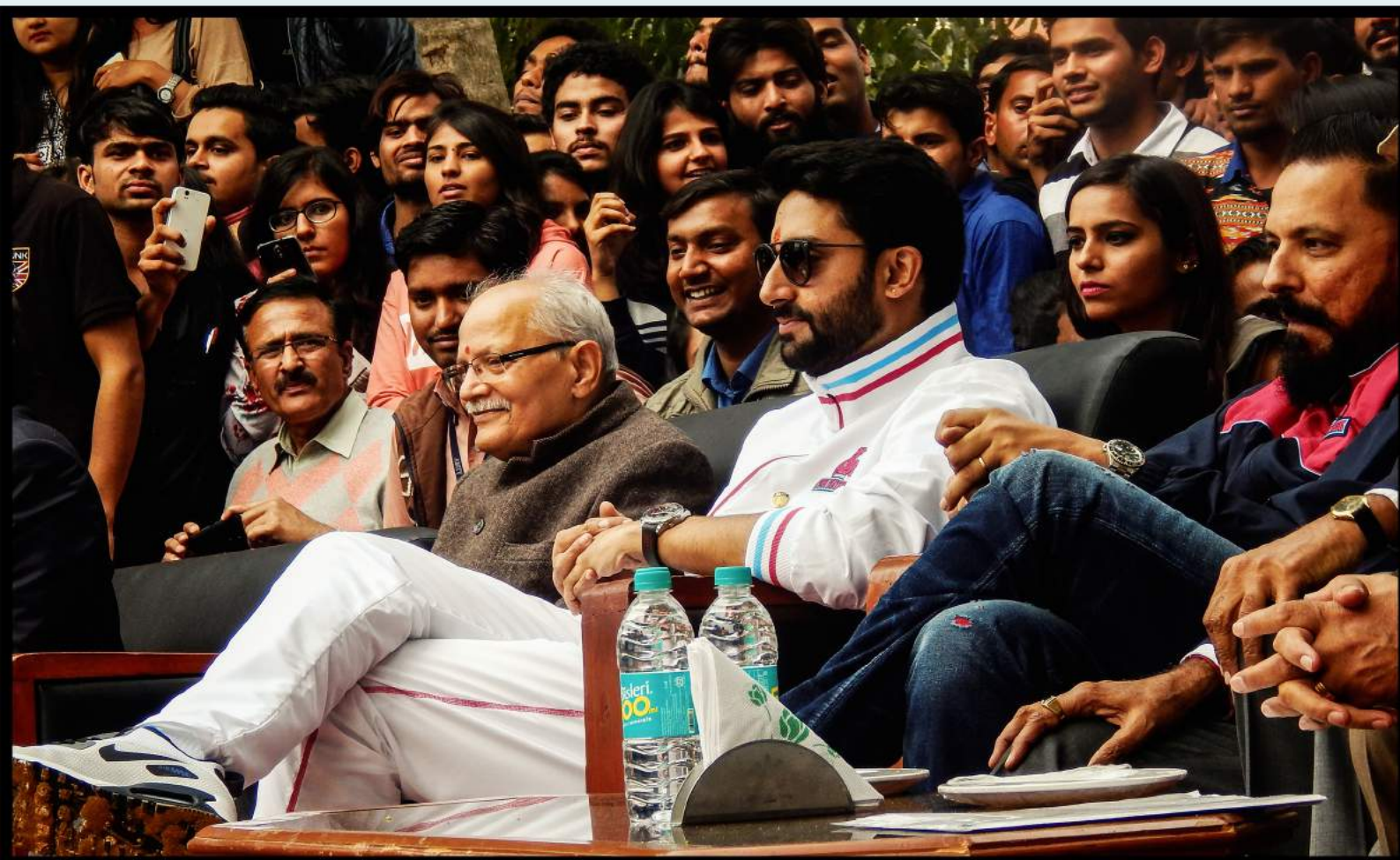


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