



# ANJUMAN COLLEGE OF ENGINEERING & TECHNOLOGY,

Sadar, Nagpur.



## Department of Mechanical Engineering

### From HOD's Desk

**Prof. Dr. Akash M. Langde**  
Head of the Department

The department's approach is very student centric. Our vision is to groom tomorrow's critical problem solving engineers, help them make successful careers in industry/research/ higher studies and above all groom them in professional skills and ethics. In continuation of our efforts of developing various SKILLS of our students and making them 'Industry ready', we have various platforms.

Our students Forum MESA - Mechanical Engineering Students Association formed earlier, gives a wonderful platform for developing them. In the past, MESA has contributed in organizing and conducting various events like National conference, Technical Outreach Program 'Radiance' in association with IIT Mumbai, ICAET - 'International Conference on Advances in Engineering and Technology', Mechawings, Tech Saga- 2K15' an Inter-Collegiate Technical Quiz competition etc.

Our SAE India - ACET Collegiate Club is very active and students participate in various 'Collegiate Design Competitions' like BAJA (baha) in Ahmedabad in 2014 and recently in Chandigarh. The purpose of these competitions goes beyond textbook theory by designing, building and testing the performance of a real vehicle besides offering placement to deserving students. Our 'Aztecs Team' designed a car and won

cash award of Rs. 10000 as 'Best Marketing Scope' vehicle in national level event ECOKART -2016 at New Delhi on 13th Feb 2016.

Recently, we launched ISHRAE students Chapter in our College for the advancement of the art and sciences of Heating, Ventilation, Air Conditioning, Refrigeration Engineering & other related Building Services. The student chapter will provide students with Interaction with professionals, National Level Quiz and Design Competitions, Grants for Project work and above all, develop leadership potential and enhance resume.

We focused on having industry and academic expert lectures, Industrial visits, industrial tour, industry based projects, etc. We also focused on developing academic skill by conducting test series and enhancing technical skills by conducting training workshops on ANSYS and other softwares.

'Parent-Teacher's meet' is organized frequently to keep parents updated about the performance of their wards and also to felicitate parents of meritorious students.

Our endeavours have resulted in producing excellent students with good University Ranking and high-quality placements catering to the needs of Indian as well as multinational industries.

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● MESA

MESA- Team Installation

Engineering & Technology  
Managed by Anjuman Hami-E-Islam



● ISHRAE

Team Installation

Engineering & Technology



● ISHRAE

Visit to Mumbai ACREX, Feb 2016

India 2016

25-26-27 February, 2016  
BCEC, Mumbai, India



● ISHRAE

Placement Activities



# Academics

## ● TEST SERIES Gate Forum Mock Test

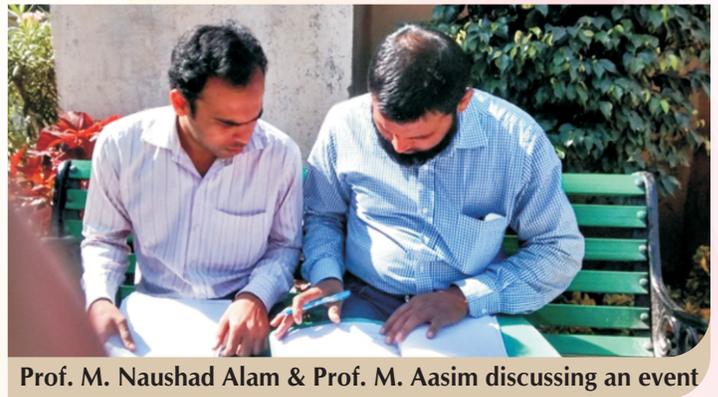


Prize winners being Felicitated at the hands of Principal, Dr. Sajid Anwar

## Test Series - Thermodynamics



Faculty engaged in valuation of Test Series Papers.



Prof. M. Naushad Alam & Prof. M. Aasim discussing an event

## Parents Teacher Meet

Parents - Teacher meet is organized regularly for briefing the parents about their wards progress. This helps the parents to interact with the faculty and know the development of the ward. The department also has a 'Mentor' scheme, in which 20 Students are assigned to a Faculty member for guiding, counseling, looking into the problems faced by the students related to academics, Seminar, Project selection and also extracurricular activities for the whole duration he is with the department.

Parents of the meritorious students are also felicitated.



# Industrial Visit & Tour

The Department organised a highly successful and fulfilling Industrial tour to Delhi, Manesar, Gurgaon and Manali for B.E. & M.Tech students (Jan 2016)



At SUBROS Ltd. Plant, Manesar



At HERO Motor Gurgaon Plant

Prof. Atul Ganorkar giving Presentation at HERO plant



Agrofab Machineries, Hingna MIDC

At Heat Well & Garud Yantra, MIDC Hingna



At CP Foundry Works, Uppalwadi Indl. Area

At Food Planet – Haldiram



At Kinetic Gears Hingna, MIDC

At Vasudhara Dairy Milk, Hingna, MIDC

## STTP

2 week Short term Training Program on 'Sustainable and Renewable Energy for Power Generation – Economics, Financing and Environmental Concern' was organised from 26th Oct – 5th November 2015 contributing towards making Earth a 'Green Planet'.



## Social Activities

### Blood Donation Camp

Students participated enthusiastically in Blood Donation Camp in serving the society.

**Prof. Dinesh Borkar Donating Blood**

### Swatch Bharat Abhiyaan

**Prof. M.N. Nasim and Prof. D. Borkar** in Swatch Bharat Abhiyaan drive in college.



## Seminar

### Guest Lecture



Dr. V. V. Shukla, Associate Prof., RCOEM on 'Design Approaches in Mech Engg'



Guest Lecture on Engg Metallurgy by Dr. R. S. Taiwade, VNIT



Guest Lecture by Gate forum on Fluid Power



Mr. Uday Thakre on Thermal Power Plant Retd. Executive Director of Thermal Power Plant



Mr. Sachin Mankawade Director, GATE Forum, Nagpur



## Extra Curricular



Faculty and students interacting at CM's meet

## Faculty members attending Workshop at NEERI on 'Solar Energy Utilization (Sun) for Sustainable Development'



Prof. Namrata Lotia Giving Presentation

Prof. Namrata Lotia receiving award for best Presentation

## Industrial Training at M.S.E.B. Power Plant, Koradi



Anant Phate VP Dinshaw presenting best Trainee Award to our 7th sem Students Deepak K. Singh & Shruti Bagde

I am JAWWAD AHMED KHAN LODHI; I have a post graduate degree in Mechanical Engineering Design, in the year 2012 I got an opportunity to realize my dream of making a public transportation device.

The initial idea was to make a light foldable electric PET (personal electric transporter) but due to unavailability of exact parts and materials we have to adjust with a much bulkier design I designed the whole vehicle in cad, and with my group we fabricated the same it was a great success. But there was something with which I was not satisfied (actually there were “many things”) so kept on finding new solutions and designs in which I can implement the lean to steer steering mechanism, and that is how I got to know about these leaning vehicles. The leaning technology is not new. This has been in practice from the early 1800’s.

In the beginning this was used by horse and buggy riders they discovered that leaning during turning can prevent them from skidding, overturning and ultimately falling but this was not so practical for the passengers as they have to lean side to side in order to maintain the high speed of vehicle. This was always a challenge to design an effective mechanism that can allow the vehicle to lean laterally to counteract the side forces. I researched it and I got many leading automobile companies that are deeply involved in the leaning vehicle technology, Toyota, Nissan piaggio etc. to name a few of them. Different companies are competing against each other to develop a cost effective leaning mechanism. And this was the



starting point for my research and development I designed the leaning mechanism which is totally mechanical and a way much economical from the foreign products in this category.

Then started the laborious process of actually fabricating the trike, here I got help from a group of final year Mechanical students, and after intense work of research on design, finding correct parts, carefully molding and welding the frame, fitting it all together it took about 10 months to bring the vehicle on road and actually riding it. Although this wouldn’t be possible if my guide Prof Mr. Nafees P. Khan; doesn’t had faith on me, so I whole heartedly thank him for allowing me to take this challenge and show my skills. I also

■ **Jawwad Ahmed Khan Lodhi**, Mech. Design Engineer

## FIFTY SEVEN FAMOUS ALIBIS BY OLD MAN - IF

People who do not succeed have one distinguishing trait in common. They know all the reasons for failure and have what they believe to be air tight alibis to explain away their lack of achievement.

Some of these alibis are clever and a few of them are justifiable by the facts But alibis cannot be used for money. The world wants to know only one thing-HAVE YOU ACHIEVED SUCCESS?

A character analyst compiled a list of most commonly used alibis. As you read the list enomine yourself carefully & determine how many of these alibis if any are your own property.

Remember too the philosophy presented in this book makes every one of these alibis obsolete.

- If I didn't have a wife and family...
- If I had enough pull...
- If I had money...
- If I had a good education...
- If I could get a job...
- If I had a good health...
- If I only had time...
- If times were better...
- If other people understood me ...
- If conditions around me were only different...
- If could live my life over again...

- If I did not fear what “THEY” would say...
- If I had been given a chance...
- If I now had a chance...
- If I were only younger...
- If could only do what I want...
- If had been born rich...
- If nothing happens to stop me...
- If other people didn't “have it in for me” ...
- If I could meet “The right people”...
- If I had the talent that some people have...
- If I dared assert myself...
- If I only had embraced past opportunities...
- If people didn't have to keep house look after children...
- If I could save some money...
- If the boss only appreciated me...
- If I only had somebody to help me...
- If my family understood me...
- If I lived in big city...
- If I could just get started...
- If I were only free...
- If I had the personality of some people...
- If I were not so fat...
- If my talents were known...
- If I could just get a break...
- If I could only get out of debt...
- If I hadn't failed...
- If I only knew how...
- If everybody didn't appose me...
- If didn't have so many coories...

- If I could marry the right person...
- If people weren't so dumb...
- If my family were not so extravagant...
- If I were sure of myself...
- If luck were not against me...
- If I had not been born under wrong star...
- If it were not true that “What is to be will be”...
- If I did not have to work so hard...
- If I hadn't lost my money...
- If I lived in a different neighborhood...
- If I didn't have a “past”...
- If I only had a business of my own...
- If other people would only listen to me...

If and this is the greatest of them all - I had courage to see myself as I really am, I could find out what is wrong with me and correct it then I might have a chance to profit by my mistakes and learn something from experience of others for I know that there is something WRONG with me.

Building alibis with which to explain away failure is a deeply rooted habit. Habits are difficult to break specially when they provide justification for something we do. Plato had this truth in mind when he said “The first and best victory is to conquer self to be conquered by the most shameful and vile”.

■ **Faez Babbu Sheikh**, VI Sem (Mech)

## SAE India Collegiate Club

### ECOKART – 2016

Students participated in national level ECOKART - 2016 at New Delhi and brought laurels to the college winning a cash award of Rs. 10000 under 'Best Marketing Scope' category.



ECO-KART fabrication in College Workshop



## Students Achievement

### RTMNU Best Volunteer Award-2016

6th Sem Mechanical Engineering Student Receiving

### RTMNU Best NSS Volunteer Award

in the presence of VC Dr. S. P. Kane, at

RTMNU Convocation Centre on 25.04.2016



Mr. Sanket Nikose, Best Volunteer Award