

VAP (VALUE ADDED PROGRAM COURSE)

Ansys Training

Date of Commencement: - 24th August 2018

Organized by: - Indian Society of Manufacturing Engineers (ISME)

Organized for: TE Production Engineering Students

Conducted by: - CADD CENTER, ANDHERI

Faculty In Charge:- Prof. Sanket Parab

Keeping in view the fierce competition, the students have to face in outside world and the need for skill expertise, the ISME organized a 50 hours training session on Ansys in collaboration with CADD Centre, Mumbai. Overall, 26 students registered for this VAP course.

INDUSTRIAL VISIT to HINDUSTAN AERONAUTICS LTD

Date: - 12th February, 2018

Place: - Hindustan Aeronautics Ltd, Nashik

Conducted by: -ISME (Indian Society of Manufacturing Engineers)

Faculty In charge: -Prof. S.R. Vaity & Prof. A.A. Samant

An industrial visit was arranged by Indian Society of Manufacturing Engineers for the First, Second and Third year students of Production and Mechanical departments on 12th February, 2018 to Hindustan Aeronautics Limited, Nasik.

The facility was a production line for the Sukhoi 30MKI fighter jets and also used to overhaul older Russian made jets like the Mig 21 and Mig 29.

The final assembly and the fuselage production line of the SU30 MKI was shown to the students and also the runway airside was shown. The Finance Minister of Maharashtra, Mr. Sudhir Mungantiwar had flown into the airstrip and he interacted with the teachers and students of DJSCE.

Some defense concepts were taught to the students and some of them even got to view the cockpit of the SU30MKI.

The students overall got to understand how an airplane flies and how is it made, and the future of this flourishing aeronautics industry in India. Overall it was a great experience, and a great opportunity for the students



HAL Plant

Union Budget – Decoded

Date: - 09th February, 2018.

Organized by: - ISME

Organized for: - SE & TE Production and Mechanical Students

Conducted by: - Mr. Vikash Mittersain, Mr. Jay Kalra and Mr. Amit Trivedi.

“Knowledge is having the right answer and intelligence is asking the right question”

The students of DJSCE got an opportunity to experience this right balance between knowledge and intelligence and this was only possible because of the 3 dynamic personalities that the panel consisted of - Mr. Vikash Mittersain, Mr. Jay Kalra and Mr. Amit Trivedi. Students interacted and discussed their questions regarding the Union Budget with them.



Glimses of the event

Mr. Vikash Mittersain is the president of India business group, Mr. Jay Kalra is a practicing chartered accountant, and Mr. Amit Trivedi is the co-founder at www.investworks.in. These three were the perfect team of experts for the day as the topic for panel discussion was UNION BUDGET – DECODED.

The huge amount of experience, knowledge and skills helped them to cater the expectation of audience out there. The event started at 12:00 noon and lasted for 2 hours. A brief introduction about the topic of the day was given to the students. As the level of topic was getting intense, so were the discussion and the participation of the crowd. An active participation from the honorable principal as well as the students was eye catching.

A series of questions was lined up for the panelists. The tougher the question was, the simpler they made it, decoded it and justified it. The way they explained it did not only attract the students' attention but also created a sense of responsibility for engineering students to take interest in topics like these. Questions asked and the level of interaction also impressed the panelists as it was beyond their expectations, according to one of the speakers.

This seminar thereby provided the students with a detailed justification of the union budget. One of the speakers marked that this seminar was not only a source of knowledge for the students but also created a sense of responsibility and awareness for them.

INDUSTRIAL VISIT to BHARAT FORGE

Date: - 19th January, 2018

Place: - Bharat Forge, Pune

Conducted by: -ISME (Indian Society of Manufacturing Engineers)

Faculty In charge: -Prof. Meeta Gandhi & Prof. Amit Chaudhari

The Second year students of the Production department of D. J. Sanghvi College of Engineering were taken to Bharat Forge (Mundhwa, Pune) to witness the manufacturing process of forging.

Bharat Forge is world's second largest forging company. It was established in 1962 by Mr.Nilkanthrao Kalyani and is currently run by his son Mr. Baba Kalyani. It is into various sectors such as Oil and Gas, Defense equipments, Wind energy, automobile components, construction, marine, metals and mining, rail etc. It has acquired over 9 companies all over the world.

The students were welcomed by Mrs. Leena Deshpande, V.P. H.R. with a brief introduction about the history of Bharat Forge and how many sectors it is into. Then the students were made to test their knowledge by a senior employee with a short question and answer session on forging.

After this, the students were taken to see the manufacturing unit which engineers' crankshafts. The Mundhwa facility of Bharat Forge is the world's largest forging facility spread across 100 acres and hence the students were shown only one of the units. This unit was fully automated and hence required minimal manual interference. The students got to see the forging and finishing of the crankshafts led by a field employee from the unit. They were explained all the different manufacturing processes in detail by the employee.

It was an overall nourishing experience for the students to see how things work in multinational companies and see the forging to give them a different perspective view of the process.



INDUSTRIAL VISIT to ADICO FORGE

Date: - 19th January, 2018

Place: - Adico Forge, Pune

Conducted by: -ISME (Indian Society of Manufacturing Engineers)

Faculty In charge: -Prof. R. S. Khavekar & Prof. Meeta Gandhi

The Second year students of the Production Engineering department were taken to Adico Forge to witness the actual procedure of how connecting rods are made by forging. They were ecstatic to see the undergoing processes.

On reaching, they were shown a presentation on how the plant operates and were given a brief introduction about the complete process of forging connecting rods. Then they were briefed by Mr. Dhananjay Patil, the V.P. of Adico Forge (Pune) regarding the history of the company and forging process as a whole. After that they were taken into the plant to see the forging by one of the employees. The students got to see the full process beginning from cutting of the dyes according to the shape of the connecting rod required, finishing of the dyes, cutting the raw material as per the requirement and then forging it to engineer the connecting rod, to the finishing of the connecting rod. All these processes had minimum automation and included manpower.

Lastly, the students were asked to give their feedback about whatever they felt was needed to be improved and whatever they liked. The students happily obliged. Overall, it was an enriching experience for the students as it is not possible to witness such things in day to day life.



Raw materials ready to undergo forging.

Talk on 3D Bio-printing

Organized by: - Indian Society of Manufacturing Engineers

Organized for: - SE & TE Production Engineering Students

Conducted by: - Dr. Rohan Shirwaiker

Date: - 25th October 2017

The students were delighted to witness the presence of **Dr. Rohan Shirwaiker** an Associate Professor in the Edward P. Fitts Department of Industrial and Systems Engineering and an Associate faculty of the Joint Department of Biomedical Engineering at North Carolina State University.

He received his BE in Production Engineering from D.J Sanghvi College of Engineering and MS and PhD in Industrial Engineering from Penn State University. On the basis of his vast source of knowledge and experience he took a session on **3D-Bioprinting of Tissues: The Confluence of Biomedicine and Manufacturing.**

Dr. Shirwaiker's research team focuses on design and scalable manufacturing technologies for engineered tissues. They study fundamental relationships between biomaterials and tissue manufacturing processes and their effects on the quality of engineered tissues, and develop new manufacturing strategies and medical products in collaboration with surgeons and other engineers.

First of all, the students were taught what role the implantable medical products play in the treatment of injuries and diseases and how conventional implantable medical devices are made out of metals and polymers using various process. Once implanted, the intent is for such engineered tissues to integrate within the body and replace the function of injured or diseased natural tissues. Several tissues such as bone, ear, knee meniscus, and bladder have been successfully engineered this way in research labs. The micro- and macro-scale design and 3D-bioprinting processes used to manufacture these tissues are highly interrelated, and have a significant impact on their quality and functionality.



Glimpses of Talk on 3-D Bio Printing: Dr. Hari Vasudevan giving memento to Dr. Rohan, the trainer (Right). Students listening attending seminar(Left).

Technical Talk on Digital Payments

Date: - 15th September, 2017

Organized by: - Indian Society of Manufacturing Engineers

Organized for: - SE & TE Production and Mechanical Students

Conducted by: - Mr. Sourabh Tomar

ISME organized a technical talk on digital payments on 15th September, 2017 on account of engineer's day to train the engineers on the importance of net banking. Technical talk was hosted by Mr. Sourabh Tomar, Sr. Manager and head of business intelligence of NPCI i.e. National Payments Cooperation of India. Mr. Sourabh Tomar is a post graduate in sales and marketing from IIM Indore and a B.E. Computer science graduate from Rajiv Gandhi Technical University. This Talk was also attended by the Finance officer of NMIMS Mr. Karuna Bhaya and the CFO of SVKM, Mr. Anil Bapat along with the Principal & other staff members. Students in this Technical Talk were educated on the necessity, importance and use of digital payments in today's economy after the effect of demonetization. The speaker also enlightened us with different techniques of digital payments by suggesting different applications and ATMs by which payments are possible by anyone anywhere. The talk was a unique mix of technical and business acumen, which was made highly interesting with videos and fun facts. It was a positive learning experience for the students and we hope to have many more interesting technical talks in the future.



Mr. Sourabh Tomar & Dr.Hari Vasudevan during the event.

Industrial Visit to Tata Motors

Date: - 27th July, 2017

Place: - Tata Motors, Pimpri, Pune

Conducted by: - ISME (Indian Society of Manufacturing Engineers) **Faculty In charge:** - Dr. Atul Dhale & Prof Sandip Mane.

The Third Year students from Production department of DJSCOE were delighted to witness one of the world's most prominent industries, TATA MOTORS located at Pimpri, Pune.

First of all, they were shown a presentation of the company's history and a brief explanation on their progress report. **TATA MOTORS Limited is a \$42 Billion company, which manufactures a wide range of sports cars, military vehicles, trucks and buses.**

Spread over a 1200 acres plot this industry has various departments where the vehicles are designed, manufactured, assembled and tested. The students were given a brief guide of some of these departments by the senior members of the company. They were accommodated in shuttles and shown departments such as gear box assembly unit, chassis unit, paint job unit, suspension unit, etc. One of the most intriguing departments was the assembly line where the vehicles were manufactured in different stages in a line. TATA Motors, on an average, assemble one car in 5 minutes.

The students were also shown the Test Track where the vehicles are tested for the maneuverability and stability by driving them on a series of tracks. They were also shown the company's latest model the **TATA ZEST**. The most mesmerizing fact about the plant is that it had its own separate lake having thousands of trees to compensate for the pollution caused apart from the manufacturing of cars.



Third Year Students Posing for Photograph outside Tata Motors with **Dr. Atul Dhale & Prof Sandip Mane.**