



## DEPARTMENT OF MECHANICAL ENGINEERING

### NEWS LETTER Volume 6, August 2019 to Feb 2020

#### Principal's Message

I am proud that the Department of mechanical engineering is presenting an issue of news letter with talents of their students and faculty. I am sure that the forum encourages the students and faculty of the department to achieve their best.

#### HOD's Message

At the outset, I congratulate the editorial board for their solidarity in bringing out the newsletter, of the "spark" with flying colors for the academic year 2019 -20. I feel very glad to have the most hardworking result oriented, highly motivated dynamic faculty & staff in the department. I hope this issue of the newsletter comes with more features, brings out the achievements of students & staff and will be the foundation for the upcoming semester for achieving new heights. I wish the editorial board all the success. Each day is the stepping stone for tomorrow. Let all of us with great solidarity strive for better tomorrow.

#### Message from Editors

Greetings and a warm welcome to our "Spark". We are happy to bring out this news letter which aims to create a forum for exchange of information on all aspects of Mechanical Engineering Department. Thank you all for your kind wishes and support.

#### Association of spark Mechanical Engineers

The mechanical departmental association SPARK was started in the year 2010. The association effectively brings the students of the department together and bridges them to the outside world.

#### VISION

To create a center of global standard for imparting education in Mechanical Engineering field and conducting research at the cutting edge of technology to meet the current and future challenges of technological development

#### MISSION

To build enabling environment for excellent teaching, learning and research in order to produce leading entrepreneurs and innovators in the field of Mechanical Engineering for sustainable improvement.

# Events Conducted in the Department

## SPARK ORGANISES “Awareness Program” ASSOCIATION WITH IEL, ISTE & SAE CLUB

The Edu-Cadd seminar was organized to enrich the knowledge of Mechanical Engineering students to get exposure on design and analysis software's on 12-11-2019.

The program was started at 11.30 AM with the welcome speech by HOD-ME and followed by introduction of the resource person Mr. Sunil. The resource person handled an interactive session about the introduction to AutoCAD, CATIA, Simulation models by NX CAD, HYPERMESH and ANSYS fundamentals. The resource person shared the information about the design software's used in Mechanical Engineering industries.

The resource person motivated the students to enrich their skills in software training. The students were expressed that this seminar was highly useful to them w.r.t to design software's required for Mechanical Engineering domain. Finally, the seminar was ended with vote of thanks by Mr. Siva Shankar Asst. Prof.



## SPARK ORGANISES“ Edu-Cadd Seminar ” ASSOCIATION WITH IEI, ISTE & SAE CLUB

Mr. Parameshwar, Manager, **ALTIS Overseas Education Consultants, Bengaluru** delivered an insight “**Awareness program on Overseas Education Options for students** ” at ACSCE II Floor Smart class room on 04-11-2019 which is organized by Department of Mechanical Engineering, ACSCE.

All 5<sup>th</sup>& 7<sup>th</sup> Semester students attended the awareness program and got the required details for perusing higher education in Australia, Canada, New Zealand & other countries.

Altis Overseas Education Consultants believes in continuously reinventing itself with an aim to get as close to perfection as possible. We believe in setting new and high standards. We compete with ourselves thus offering a better value to our students with guaranteed satisfaction. ENGLISH has become world's most popular language in short span of time and everyone should qualify before apply to abroad country. We help and assist and guide you at each and every step.

Though our ways, methods, and material have been blatantly copied by various players in the industry but no one has been able to emulate our reliable and flexible services. This passion and spirit coupled with our intelligent and creative approach has helped us to create a product which is observed to be a benchmark in the industry.



## Opportunities for Mechanical Engineers in CAD/CAM

The CAD-CAX seminar was organized to enrich the knowledge of Mechanical Engineering students to get exposure on design and analysis software's on 21-10-2019.

The program was started at 10.30 AM with the welcome speech by HOD-ME and followed by introduction of the resource. The resource person handled an interactive session about the introduction to AutoCAD, CATIA, and CREO, Simulation models by NX CAD, HYPERMESH and ANSYS fundamentals.

The resource person gave the students regarding various modelling and drafting tool used by different industries. Aeronautical Engineering applications mostly use CATIA, whereas structural engineering application use UG-NX or CREO tools for modelling as they are suited for that application. He gave an insight to students regarding the various tools and how to best select tools based on one's interest and how to improve skills to suit the industry.

The resource person motivated the students to enrich their skills in software training. The students were expressed that this seminar was highly useful to them w.r.t to design software's required for Mechanical Engineering domain. Finally, the seminar was ended with vote of thanks by Mr. Srinidhi S. R. Asst. Prof.



## Awareness Program GATE

Awareness program GATE was organized to enrich the knowledge of Mechanical Engineering students to get exposure/preparation for Graduate Aptitude Test in Engineering on 12-09-2019.

The program was started at 11.30 AM with the welcome speech by HOD-ME and followed by introduction of the resource. The session was started by tell the students the importance of GATE, the opportunities with respect to various Public Sector Units. A detailed list of PSU's which accept GATE as mandatory for job. Not just PSU's even some private player also accept GATE.

Later the resource person explained the various rebates in rates for GATE Coaching with VANI institute for meritorious students. A detailed list of rates and reduction were explained by the resource person along with the list of centers for taking up the coaching based on student preference.

Finally, the awareness program was ended with vote of thanks by Mr. Sandeep G. R. Asst. Prof.



## Awareness Program Opportunities in HVAC

Mr. Asifakther, Manager, Prinston Smart Engineering HVAC, Bengaluru delivered an insight “Awareness program on Placement Mechanical Engineering (HVAC)” at ACSCE II Floor Smart class room on 14-08-2019 which is organized by Department of Mechanical Engineering, ACSCE.

All 5th & 7th Semester students attended the awareness program and got the required details for perusing higher education in Australia, Canada, New Zealand & other countries. Mr. Asifakther explained about Heat Ventilation & Air Conditioning its application in different areas like hospitals, schools, colleges, buildings, airports and factories. He spoke about the opportunities available worldwide for the application of HVAC, especially in Middle East. He also spoke about the tools commonly used for the application of HVAC, AUTOCADD and its importance in the field of HVAC.



## Two Day's FDP

A Two Day Faculty Development Program on Recent Innovations in Mechanical Engineering Sciences was organized by the Department of Mechanical Engineering on 08-07-2019 and 09-07-2019.

The Head of the Department started the proceeding on 08-07-2019 at 10:30 am in seminar hall 2, second floor by giving a brief introduction of the program its importance and also introduced the chief guest Dr. Anand Kumar S, Prof., IIT Jammu. Later the session was delivered by the guest followed by a tea break. After the break the session was continued by Dr. Girisha C., HOD AMC. He spoke about sustainable engineering, its importance. The session was continued after lunch by Dr. H. R. Vittala Prof. SJBIT., after the session the day break was taken the next day session was continued by Dr. KRISHNA RAO. Professor & HOD-ME, GAT, Dr. MAHENDRA MANI., Professor, GEC, Dr. RAJU B. R., Professor & HOD, OXCE. The vote of thank was delivered by Dr. R. Sivasubramaniam.



# ***EXPERT LECTURE ON CAD/CAE/CAM On 25<sup>TH</sup> February 2020 By Bernard Raja CEO Focus Path***

## **About Focus Path & Bernard Raja**

Delivered multiple promotions due to exceptional professional acumen, provide expert assistance to create educational solutions for internal associates to drive key strategies and initiatives. Assess workflow and related processes/requirements and facilitates system enhancement/modifications. Develop & manage project timelines and deliverables while effectively communicating project status to ensure successful implementations of learning solutions.

Having More than 8000 hours delivering training on CATIA V5 & 3DEXPERIENCE Platform. Have a good expertise in delivering training on CATIA V5 Electrical Harness Design, Tubing Design, DMU-Navigator, Space Analysis, Fitting, and Kinematics.

**Details of the Expert Lecture:** The lecture started at 11:30 AM, on 25-02-2020. Mr. Bernard Raja was felicitated by our HOD, Dr. H. S. Siddesha and also he introduced our Chief Guest. The guest started the session with the introduction of Focus Path, the purpose of the firm. He explained the importance of the various CAE tools used in industry. Also he explained about how Focus Path has helped various MNC's in reaching their goals and achieve higher heights. He mainly focused on the importance of CATIA, its uses in Aeronautical and Aerospace industries. Mechanical Engineer with 20 years of increasingly responsible management, Leadership development & Training & Development. Adept at understanding and demonstrating educational products establishing a strong rapport with audience and introducing others to educational innovations. Specializes in innovative technology and large group education. Developed and delivered, using the ADDIE system, online courses.





## **ONE DAY INDUSTRIAL VISIT On 20<sup>TH</sup> February 2020 To Visvesvaraya Industrial & Technological Museum**

### **The details of the visit are as follows**

The visit to the Museum started at 10:00 AM on 20.02.2020. The team of students (4<sup>th</sup> Semester & 6<sup>th</sup> Semester) and Faculty, Mr. Sandeep G. R., and Mr. Kumara B. M., reached Visvesvaraya Industrial Museum around 11:15 AM. Initially students visited the ground floor which housed the engine room, mechanisms, and fluid machines, scale down models of hydro-electric power-stations and basics of machines and mechanical engineering. Next the students visited the aircraft section and space section, where students understood the basics of aircraft and various space missions. The visit to the museum was done by 2:30 PM, and started their backward journey and reached the college by 3:30 PM.



### **Objectives of Visiting the VITM**

- Understand the working of various mechanisms, fluid machinery, engines, space technology, with practical/actual working of mechanisms.
- Students will get a clear cut understanding of the working of various mechanisms as they can learn from the working models present at the museum.
- Working of Internal Combustion Engines & External Combustion Engines can be very clearly understood as models of the same are present at the museum.
- Scale down models of different hydro-electric power-plants helps students understand the working principle and the turbine used for the same.
- Full size models of various power generating hydro-machines (Turbines) helps students understand the working and velocity triangles easily.
- Reform training and extension systems which will enhance human resource quality. Preparing individuals who will have passion for professional excellence and proactively engaged in betterment of society.
- Overall understanding of engineering concepts with full size models or scale down models.

### **Students Feedback:**

The guiding staff was very Supportive to all students and guided us to their best. They also explained the things relating to our subjects. Students had studied the subjects in theoretically, now students have complete understanding of the subjects. Students had a fun experience of understanding subjects like 'Kinematics of Machines', 'Fluid Mechanics', 'Applied Thermodynamics' and others.

# Department Achievements

Final year Mechanical Students **Participated in quiz contest at IMTEX 2020 METAL FORMING EXHIBITION.**



Our Students has participated in Mega ATV-Baja 2019 Car Challenge held at GOA sponsored by RRG I



ACSCE Center for Excellence –Automation Technology Sponsored by Robert Bosch – Rexroth-“**The course is a blend of both Theory and Practical sessions and is spread over four weeks conducted during semester end vacations. The course is being conducted by a dedicated team of experts from industry and academia**”.



**PATENT:** Department has Published a patent on Design and Fabrication of the Bio-Composite Helmet at the year of 2019.

**PATENT:** Department has Published a patent on Differential Locking Mechanism Actuated by Electric Motor at the year of 2020.

## **MOU's:**

Department has Signed MOU with

- ✓ CADDMAX PRIVATE SOLUTIONS.
- ✓ DISTINCT PRODUCTIVE SOLUTIONS.
- ✓ NATIONAL INSTITUTE OF FUNDAMENTAL STUDIES, KANDY, SRILANKA.