

### Social Outreach Program

As part of the Social Outreach Program, students from Baseliious Vidhya Nikethan and St. Paul's Veliyanad Higher Secondary School visited the Department of Mechanical Engineering and its various labs. 3-D printed components, HVAC systems in Diakin Lab, Mechanical systems and BMW engine in Thermal Lab were exhibited for the students as part of Mech Tech-Fest "Yanthrik- 2020".



### An interactive session by Alumni

An interactive session was conducted by alumni Mr Arun Hari (Educational Entrepreneur and Skill Trainer), Mr Shanulraj V S (Planning Engineer, Qatar), Mr Antony Joseph (Entrepreneur, Garner Industries) and Mr Jithin Jose Thayyil, (Engineer, Jordan) with the students of Mechanical Engineering.

They discussed the importance of undergoing training in mechanical related Softwares during the course of study, the importance of internships and add on courses and requirements of hands-on/ practical skills. They also shared reminiscent moments of their TIST Mechanical days.



### Alumni Meet

An alumni meet was conducted on Feb 19, 2020, to update and upraise the present requirements of industry and to fill the gap inn curriculum. They also shared their experience in the industry and interacted with the representatives of final and prefinal year mechanical students.



### Triumph Workshop

The Department of Mechanical Engineering at Toc H Institute of Science and Technology conducted an exclusive Technical workshop by TRIUMPH Kochi on February 15th 2020, as part of the college techno-cultural fest- ADVAY 2020. The cutting edge technologies used by TRIUMPH was explained in the session along with a brief history of TRIUMPH. The workshop witnessed interactive sessions between students and experts from Triumph. They also experienced TRIUMPH'S latest motorcycles. The workshop was followed by a Tech-Quiz. Cash prizes were awarded to the winners of the quiz.



### Technical Talk

IIW student chapter of the Mechanical engineering department at ToCH conducted a tech-talk on "Weldability of steels" for the students, on February 18, 2020. The session was handled by Mr. Abdulla M, an IIW representative.



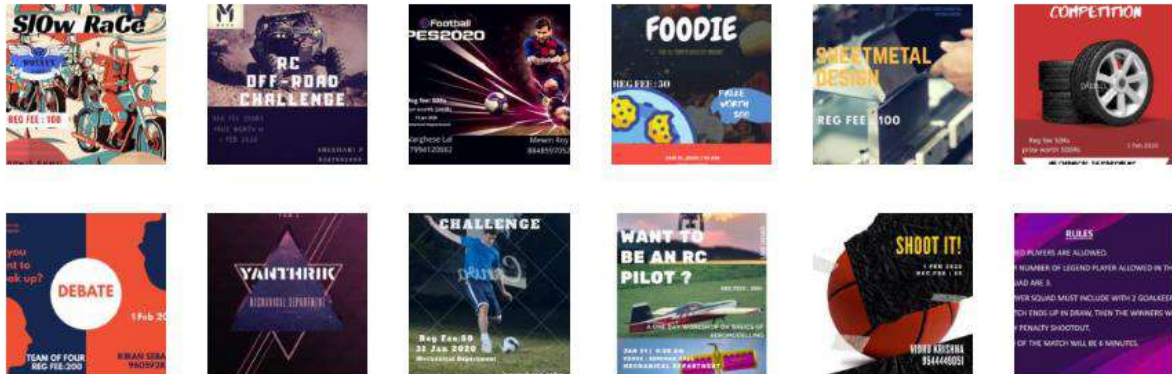
### Technical Talk

Technical talk on **Softwares used by Mechanical Engineers** was conducted for the final year students of the Mechanical Engineering Department by CADD Centre, Vytilla on 4 February 2020.



## Tech Fest

Department of Mechanical Engineering at Toc H Institute of Science and Technology, Arakkunnam is conducting Tech Fest on 31st January and 1st February 2020. The main events are listed below:



## Training Program

The Department of Mechanical Engineering in association with CADD Centre Palarivattom is conducting a software training program on SOLIDWORKS for the final year students. 31 students from the department are presently undergoing the course which will enhance the opportunity of acquiring a job after the course.



## FAB FEST

The final year students from the Department of Mechanical Engineering of Toc H Institute of Science and Technology organised a 3-D Printing Workshop, zonal level FAB FEST, the first of its kind at Toc H. It was a three-day workshop along with an industrial visit. The workshop was scheduled on 24th and 27th January, and the tentative date for the industrial visit was set on 5th February. FAB FEST was announced in the KTU website and had participation from various colleges. We had the support of ASME local chapter and IEDC to organize the workshop. As part of the fest, the students also organised a quiz competition which was held on 27th January. Er. Sreenath Polakhal conducted the classes for both days. He is the CEO of EMI products. We also had the privilege to inaugurate the first-ever portable 3D printer in India. The suitcase 3-D printer was earlier scheduled to be inaugurated at Bengaluru. But he decided to inaugurate it at Toc H after experiencing the immense support from the college. The workshop helped the participants to model and print their designs.



### **Technical Talk**

Technical talk on Industrial Safety and NEBOSH was organized for the final year Mechanical Engineering students on 23 January 2020 by Mr. P Pereira from Inter CADD, Kollam.



### **KTU Sponsored Faculty Development Program On ADVANCES IN BIO-ENGINEERING, 6, 7 & 9<sup>th</sup> January 2020**

A 3- day Faculty Development Program funded by KTU in the topic “ADVANCES IN BIO-ENGINEERING” was conducted by Department of Mechanical Engineering on January 6, 7 & 9, 2020. The program was inaugurated by Dr Alex Mathew (President TIST). Management representatives, Principal and Vice-principal graced the occasion with their presence.

Dr Binsi (CIFT, Kochi), Dr Sujesh S (SCTIMST, Trivandram), Dr Jency S Raj(Dentcare, Kochi), Dr Minimol (Model Engineering College, Kochi), Mr Vijay Nair (Jayan Implants) and Dr Shibu Eapen (STIC, CUSAT) spoke on various topics in Bioengineering stream. An industrial visit to Dentcare, Kochi was organised as part of the FDP program



### **Desktop CNC milling Workshop by ASME TIST Chapter**

The ASME TIST student chapter organized a one-day workshop on the topic “DESKTOP CNC MILLING” conducted by TRYASRA LABS at ME seminar hall on November 14 th 2019. Mr. Benson Gipson (CFO-Trasra Tech Solutions Pvt.Ltd) conducted the workshop for students and the occasion was preceded by Prof.Dr.Babu John, Vice Principal (TIST).

A desktop CNC milling machine is a milling machine that is much smaller and lighter than a normal CNC milling machine. A Desktop CNC Mill is mostly used for cutting wood, plastic, model foam or other soft materials. You can also machine aluminium, but this is mostly for engraving purposes. Precisely cutting woods, metals, and other materials, the CNC mills can do some tasks that 3D printers can't.

Students attended the workshop got an exposure to:

- 3D modelling and subtractive manufacturing.
- CNC G-codes and various milling operations.
- Hands-on experience on the machining process.

A quiz competition based on the workshop was also conducted and separate certificates were issued to the participators.



### **Seminar on Industry 4.0 Robotic Welding & Simulation**

The S3 student members along with staff coordinator Asst. Prof. Saigovind V S of IIW (Indian Institute of Welding) student chapter in the Department attended a one-day seminar on Industry 4.0 Robotic Welding & Simulation conducted by Indian Institute of Welding- Cochin chapter in association with Lorch Welding & Indaids International on 9th November 2019.



### **Awariness talk by Tracez**

Technical talk on mechanical engineer competency for job adaptation by Tracez training and consultancy services Kochi on 7 Nov 2019.



### **A one day workshop**

A one day workshop on Non-Destructive Testing conducted by M/s UNITED NDT, Palarivattom, Cochin for Final and pre-final year Mechanical engineering students. A hands-on skill on the magnetic particle, dye penetrant and ultrasonic tests were conducted on 30<sup>th</sup> October 2019.



### Technical Talk

A Technical talk on Automotive service sector by Mr Shinoy K S from SIRA Automotive for the final year students was organized on 29/10/19. Asst. Prof. Rajesh Kocheril also shared his experiences in the Automotive sector



### Awareness Talk

Awareness talk on Building Information Modelling systems focusing on MEP (Mechanical, electrical and plumbing) – for Mechanical engineering graduates was organised in the department on 25/10/19.



### Peer Learning

Final year Mechanical engineering students teaching the basics of air conditioning to first-year Computer science engineering students.



### **Technical Interaction**

Technical interaction with the Vice-president and officials from Kochi region of Indian Institute of Welding (IIW) and faculty from Mechanical Engineering Department were conducted in the department on September 30, 2019.



### **Career prospective talk by Mr. Jose Manu, ME (BITS Pilani), pursuing PhD in IIM Bangalore.**



### **Awareness program by AECC Global on higher education opportunities abroad for final year students**



### **Technical Talk cum Professional Body Activities Awareness Class**

Technical talk cum professional body activities awareness class conducted on 30 Aug 2019 for mechanical engineering students by Er. Shaji Jacob, Chartered engineer and chief academic coordinator, Member, Institution of Engineers India, State centre committee, Kerala



### **Auto Cad 2D Course Completion Certificate Distribution**

