

Autodesk - KPRIET

- Students of BE Third year Mechanical Engineering created learning content for CAD/CAM Laboratory using Autodesk Fusion 360 and uploaded in KPRIET YouTube channel. The students received remuneration of Rs.50,000/- for this activity from Autodesk.
- Autodesk and KPRIET along with Automotive Skill Development Council (ASDC), hosted the national selection process for the skill - Prototype modelling, a skill part of the IndiaSkills initiative. For south region, five candidates were selected among, 2 were from KPRIET.
- Autodesk launched FutureSkill India platform for identifying the skills of Indian youth, as a side venture of IndiaSkills. KPRIET is a proud supporting partner of this campaign, helped in organizing, conducting and supporting competitions for various skills such as Prototype modelling, Industrial design technology and Additive manufacturing. For conducting these events, KPRIET received Rs 1,40,000/- from Autodesk.
- Mechanical Engineering Students from our KPRIET participated and three winners were from KPRIET won a total prize money of Rs. 25,000/-
- The website for this campaign is solely developed, run and maintained by students BE Mechanical Engineering. The website can be found at: <https://futureskillindia.com/>
- Our BE Mechanical student project - Autonomous Leaf Collector, done with the help of Autodesk product, Fusion 360 was recognized by Autodesk. The project also received a funding of Rs. 53,900/- from Autodesk.
- Our students from BE Mechanical Engineering is provided an internship opportunity at Autodesk as “Fusion Catalyst Intern” with Stipend of 15,000/- per month for a duration of 10 months.
- KPRIET in support with Autodesk conducted training sessions for students as webinar series with 24 webinar sessions on Fusion 360 and a Two days bootcamp on Fusion 360.

3D Printing Technology

Consultancy facilities (if applicable)

S. No.	Testing & Characterization Facility	Cost (Rs.)		
		For Other Educational Institutes	For Govt. R&D Labs	For Industries
1.	FDM Printer - CR 10s	90/specimen+300 per /day chargeable	90/specimen+300 per /day chargeable	90/specimen+300 per /day chargeable
2.	SLA Printer	200/specimen+300 per /day chargeable	200/specimen+300 per /day chargeable	200/specimen+300 per /day chargeable
3.	CNC Engraver/Laser	50/specimen+200 per /day chargeable	50/specimen+200 per /day chargeable	50/specimen+200 per /day chargeable
4.	3D Scanner	1000/model	1000/model	1000/model
5.	Training, Assembly & Disassembly	4000	4000	4000

Events organized:

1. Role of Additive Manufacturing in Mechanical Engineering

Resource Person : Dr. K. Ravikumar, Professor, Mechanical Engineering, KPRIET.

Date & Time : 18.12.2020 & 3.00 to 4.00 pm (online)

Participants : 45 internal students

Outcome:

1. Awareness about the importance of 3D Printing Technology in Mechanical Engineering
2. Understand the classification of Additive Manufacturing Technologies.

Contact Details:

1. Dr. M. Kumar
Associate Professor – Mechanical Engineering
kumar.m@kpriet.ac.in
+91 9965386514



2. Mr. P. Arunkumar
Assistant Professor – Mechanical Engineering
arunkumar.p@kpriet.ac.in



+91 7200010664

Research Grant Received:

Title : DEVELOPMENT AND CHARACTERIZATION OF NOVEL ADDITIVE MANUFACTURED FUNCTIONALLY GRADED ALUMINIUM COMPOSITE FOR ENERGY EFFICIENT BRAKE ROTOR APPLICATION

PI : Dr.M.Kumar, ASP, Mech Engineering, KPRIET, Coimbatore.

Mentor : Dr.D.Lenin Singaravelu, ASP, Production Engineering, NIT Trichy.

Funding agency : **DST-SERB-TARE**

Amount : **18.30Lakhs**

Date applied : 15th March 2021

Status : Approved

E-Shuttler

E-Shuttler is an electrically Operated Vehicle which is pollution free, designed and fabricated by **Mechanical Department students**. Around **12** members can travel at a time. KPRIET is going to sanction an amount of Rupees **Ten lakhs** for this **startup**.