

## **RCOEM-TATA-CIIT Activities April-June 2021 by Dr. Vishal Shukla**

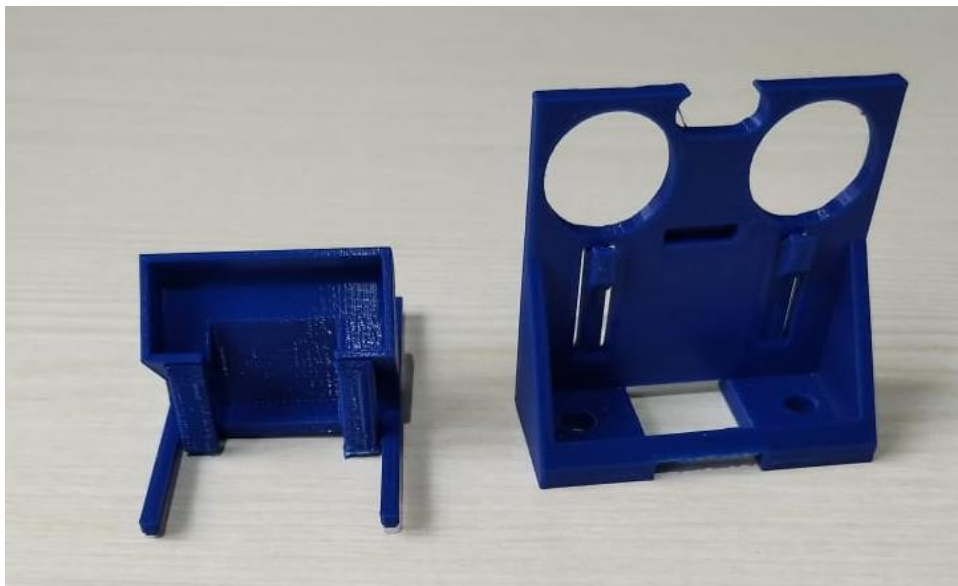
### **Patents published/applied at RCOEM-TATA-CIIT:**

RCOEM-TATA-CIIT Faculty In-Charge, Dr. Vishal Shukla and team of faculty & students, have applied for 3 patents, 2 of which are published and publication of one of these patents is awaited. The details are as follows

1. A PNEUMATIC SAND RAMMER WITH VIBRATION ISOLATOR, Application no.- 202121022980, CBR No.- 11823, published on 24 May 2021. The applicants and inventors are: Dr. V. V. Shukla, Nikhil Chandrawanshi, Sadik Sheikh, Shbhanshu Singh, Dr. P. V. Sawalakhe
2. A DEVICE FOR MAKING FLOWER GARLAND, Application No.- 202121022981, CBR No.- 11823, 11823, published on 24 May 2021. The applicants are: Dr. V. V. Shukla, Aditya Chavan, Animesh Hedao, Syed Hamza Ali, Kaustubh Ghude, Jitendra Singh, Ritik Raj, Abhiram Degwekar and Nitin Ghudhade
3. A DEVICE FOR GENERATING PROFILE ON PIPES, Application No.- 202121022976, CBR No.- 11823, 11823, publication awaited. The applicants are: Dr. V. V. Shukla, , Animesh Hedao, Syed Hamza Ali, Dr. M. M. Gupta

### **Department social technical connect:**

A device casing/cabinet for Tycathon competition project was printed for Mr Kaiwalya Harkare, a student of Government polytechnic Pune based on the recommendation of Dr. Nitin G. Kulkarni, PhD (IIT Bombay), Head of Mechanical Engineering Department, Government Polytechnic, Pune 411016



3-D printed parts of a Toy device

### **Trainings delivered by Industry Experts for students:**

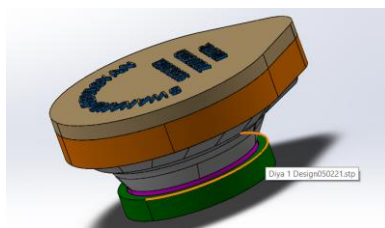
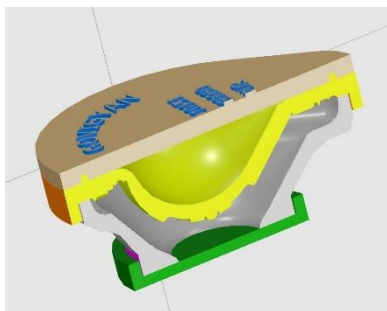
A full day online and offline IoT Training on Arduino Nano for students of PG Robotics & Automation was organized by Dr. Vishal Shukla on 21 May 2021 at RCOEM-TATA-CIIT. Mr. Mayur from Tata Technologies has covered online session and Mr Sumit Nemade from 3-D Wallely, Nagpur has demonstrated it onsite and students of M. Tech. Robotics & Automation were the participants, who performed it on IOTIF Kit.



**IoT Lab hands on practice**

**Research Project and Consultancy:**

A project consultancy on Mold design, 3-D printing and manufacturing of some products for Govigyan Anusandhan kendra Nagpur has been completed. Some of the products designed, 3-D printed and fabricated for the NGO client are Padma Kund, Diya – about 3 types and Hand press machines (12 Nos). A feasibility study and CAD design was done by Mr. Anil Dhole, SME TATA Technologies. The hand press design, fabrication and approval for the sample from GVAK was done by Dr. Vishal Shukla, Faculty In-charge CIIT. The project stage is completed on 18 June 2021.



**Products designed and developed for SGVAK**



Portable Hand press machine, designed and fabricated for SGVAK

#### **Faculty Development Trainings delivered by Industry Experts:**

Dr. Vishal Shukla has arranged online training for **e-learning platform i-Get-it** by CIIT, **on Saturday 19 June, at 11 am**. Online Training will be conducted by Mr. Anil Dhole, SME TATA Technologies Ltd. Some of the faculty members of Mechanical & Industrial Engineering attended the training. **20 user names and passwords for accessing i-Get-it**, are shared with faculty members

The expert training and hands-on Workshop on VMC operations and Programming was organized by Dr. Vishal Shukla on 23 & 24 June 2021. **Mr. Sachin L. Koli**, from Acemicromatic, Pune was the expert speaker. He has **covered** a variety of topics on CNV/VMC and its applications, from basics to advanced and hands-on training. Some Faculty members of mechanical Engineering and PG students of Robotics & Automation and Industrial Engineering attended the 2 days training.





VMC hands on training by Mr. Sachin L. Koli, Acemicromatic



Participants of VMC Training at RCOEM-TATA-CIIT

The expert training and hands-on Workshop on Yaskawa Arc Welding Robot was organized by Dr. Vishal Shukla on 29 & 30 June 2021. **Mr. Shiva Krishna**, from Yaskawa India Private Limited, Pune was the expert speaker. He has **covered** a variety of topics on Yaskawa Arc Welding Robot and its applications, from basics to advanced and imparted hands-on training. Some Faculty members of mechanical Engineering and PG students of Robotics & Automation and Industrial Engineering attended the 2 days training.



**Arc Welding Robot hands on training by Mr. Shiv Krishna, Yaskawa**



**Participants of Yaskawa Arc Welding Training at RCOEM-TATA-CIIT**





Visit of Director MSME, New Delhi to CIIT and ride on SAE e-baja vehicle developed by SAE Collegiate club ( 11 June 2021)



Director MSME New Delhi & Shri Parlewarji, Shri P. M. Parlewar, Director CPIO Nagpur visit to CIIT