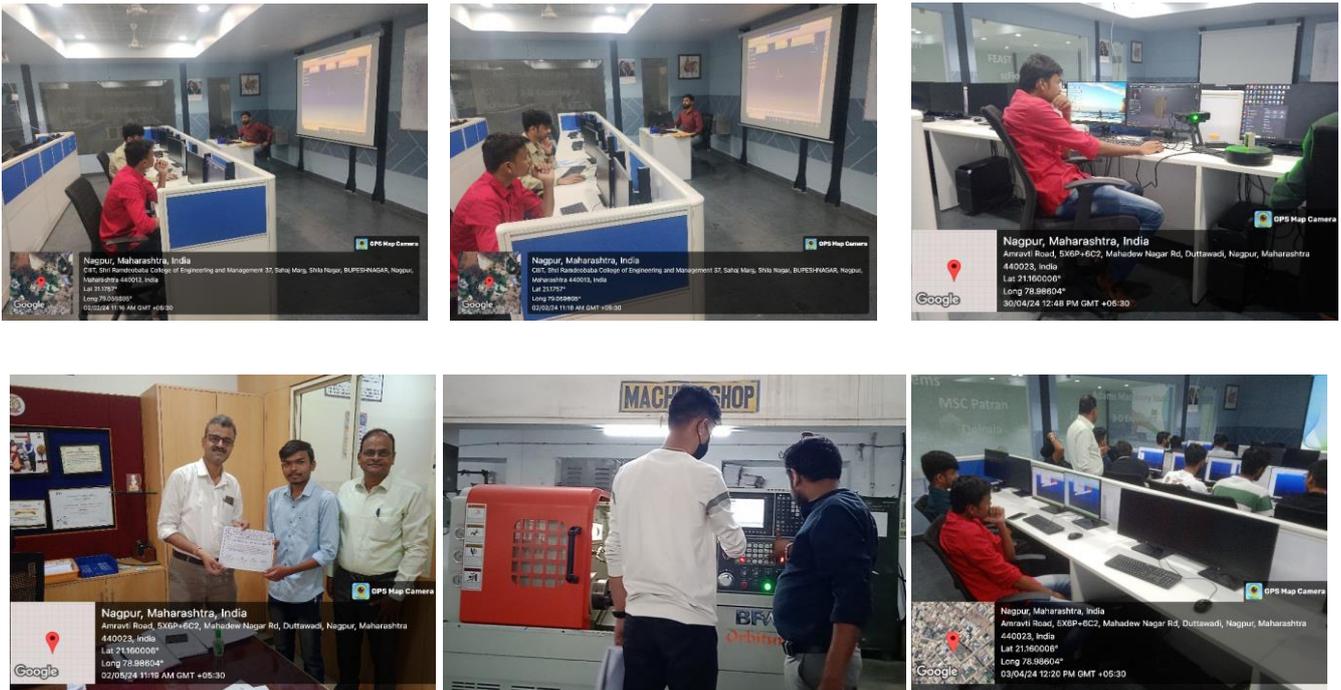


REFLECTION
April-May-June 2024
RCOEM-TATA-CIIT
(Center for Invention Innovation Incubation & Training)

[A] Training Programs: -

1] A four-month internship on “Solid Modeling, 3D Printing, Reverse Engineering, Analysis using ADAMS, and VMC Operations” was conducted from 16th January to 15th May 2024, for students of **Government Polytechnic, Nagpur**, from 11:00 a.m. to 3:30 p.m. at RCOEM-TATA-CIIT. The training program was coordinated by Dr. Y. M. Sonkhaskar and Mr. Shrikant Wankhede, Technical Assistant of RCOEM-TATA-CIIT. At the end, the certificates were distributed at the hands of Dr. Rajesh Pande, Principal RCOEM.

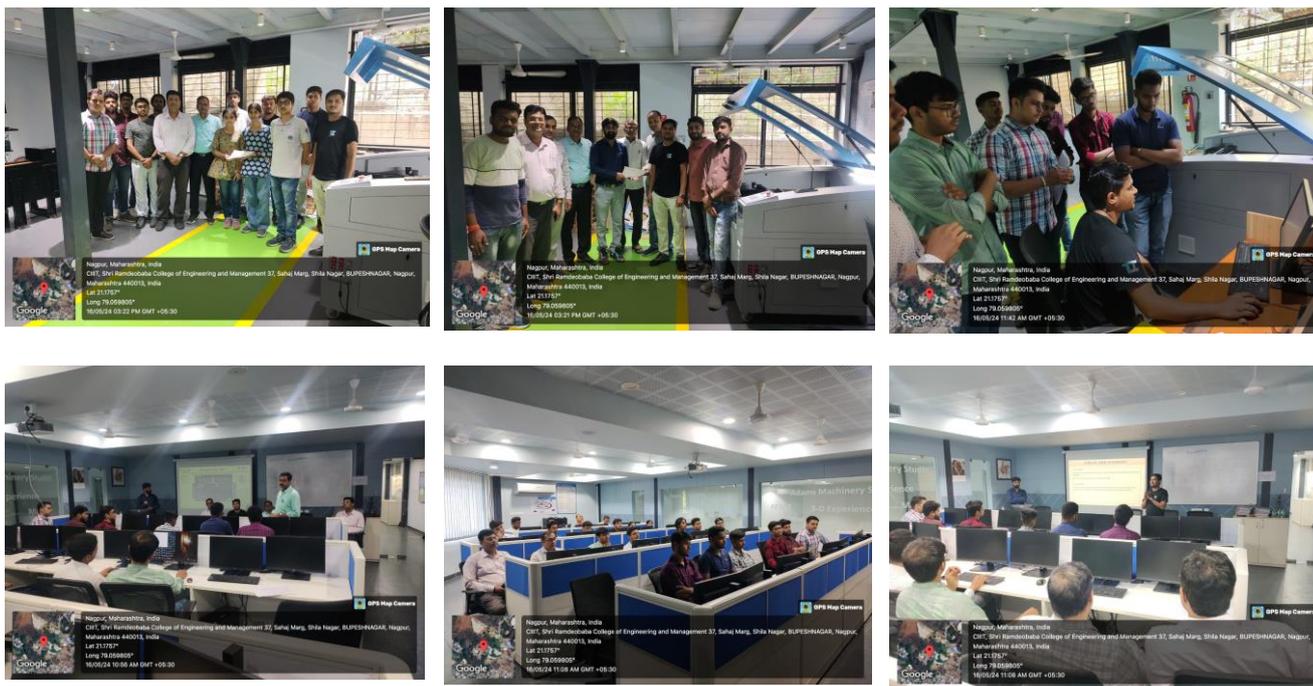


2] A one-month internship on “3D Printing, 3D Scanning, and Reverse Engineering” was conducted from 27th March to 15th May 2024, for students of **Shri Ramdeobaba College of Engineering and Management, Nagpur** (RCOEM) from 11.00 a.m. to 4.30 p.m. at RCOEM-TATA-CIIT. The internship program was coordinated by the faculties Dr. V. V. Shukla and Dr. Y.M. Sonkhaskar (3D Printing Tech., 3D Scanning, and Reverse Engineering) and with technical assistance by Mr. Shrikant Wankhede.



3] A three-day training program on “Laser Cutting and Engraving Machines” was conducted from **May 16–18, 2024**, for students and non-teaching staff of **Shri Ramdeobaba College Engineering and Management, Nagpur**, from 10.30 a.m. to 5.30 p.m. at RCOEM-TATA-CIIT, organized by the Mechanical Engineering department and

coordinated by Dr. A. D. Urade and Prof. N. P. Gudadhe. Training was given by an expert Mr. Tushar from Techno Vantor.

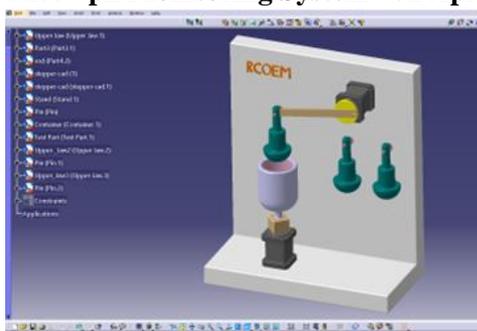


4] A one-month internship program on “Internet of Things (IoT)” will start on **June 3, 2024**, for students of **Government Polytechnic, Gondia**, at RCOEM-TATA-CIIT. The program is being coordinated by Dr. Chithraja Rajan and Dr. Bhumika Neole, Assistant Professors from the departments of CSE (AIML) and ECE, respectively.

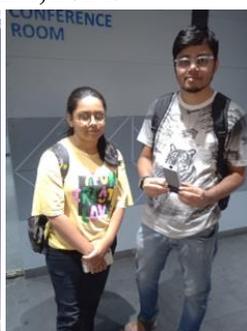


[B] Consultancy & Project:

- **Mr. Aditya Pawar** (Electronics Engineering Dept.) and his team printed 3D parts for the project titled “**Robotics Jaw Rotating**” 3D software design model on **April 4, 2024**.
- **Ms. Harshita Goydani** (AIML Engineering Dept.) and Yash Bansod printed 3D parts for the project titled “**ph Monitoring System**” on **April 4, 2024**.



Robotics Jaw Rotating



Ph Monitoring System



Trinocular Microscope

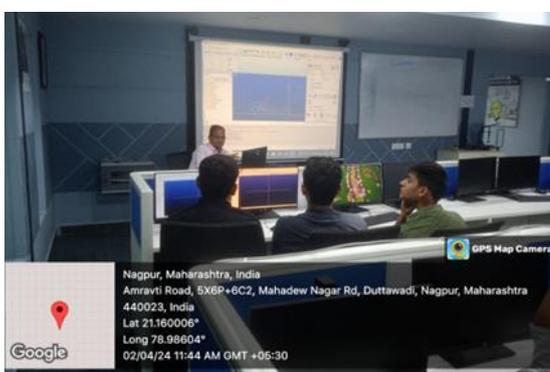


Portable Urine Analyzer

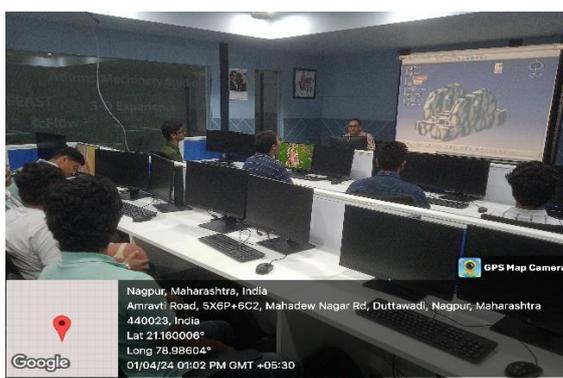
- **Ms. Khushi Wankhede** (Biomedical Engineering Dept.) printed 3D parts for the project titled **“Development of a Portable Urine Analyzer for Point of Care Testing”** on **April 10, 2024**.
- **Mr. Apekshit Sonule** (M. Tech student of Mech. Engg. Dept.) printed 3D parts for **ASG Project** on **June 10, 2024**.
- **Asst. Prof. Manoj Sarve** (EC Dept.) printed 3D parts (Mic Box & Box Plate) for the project titled **“Multimodel Microphone Array System”** on **June 26, 2024**.
- **Dr. Bhumika Neole** (EC Dept.) printed 3D parts (AQI Box) for the students project on **June 2, 2024**.
- **Mr. Shabbir --** (Mech. Engg. Dept.) printed 3D parts for the project titled **“Pipe surveillance robot”** on **June 12, 2024**.
- **Mrs. Rashmi Kulkarni (Zero System [Navitas Lighting])** printed 3D parts (Top and Bottom Attachment, Top and Bottom Object) on **June 26, 2024**.
- **Mr. Aditya Deole** printed 3D parts (top and bottom gear box, IC, motor, disc, and screw) for his project on **June 14, 2024**.

[C] Guest Lecture & lab Utilization:

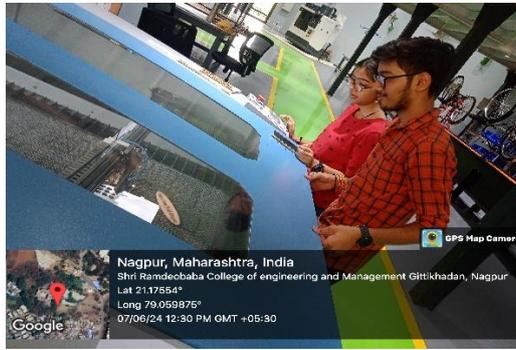
- Dr. Y. M. Sonkhaskar conducted a hands on session for second-year students of Mechanical Engineering on **“Adams Machinery Software”**.



- Prof. N. P. Gudadhe conducted a practical lab session on **“Mechanical Engineering Software Lab”** for Students of Second-year Mechanical Engineering students.

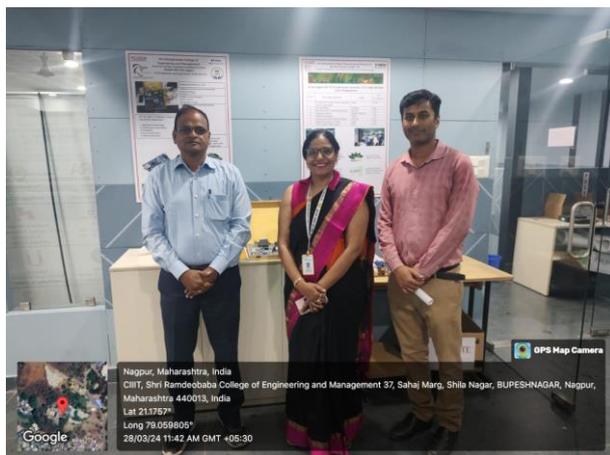


- **Mr. Chirag Singhal & Vani Kaushik** (2nd Year, BME) had used Laser cutting and Engraving machine to **design micro-PAD** for the project entitled **“AI-ML assisted PoCT System to detect Various Biomarkers/Neurotransmitters”** for Biomedical Students. The application came under the guidance of **Prof. Manish Bhaiyya** on 1st June 2024 & 6th June 2024.



- Mr. Aryan Kothari (1st Year, ECE) had used Laser cutting and Engraving machine for the project entitled “Design and Development of POC Device” under the guidance of Prof. Manish Bhaiyya.
- Ms. Shraddha Bhakare & Mr. Kshitij Thote carried out the research internship on Manufacturing Executive System under the guidance of Dr. Y. M. Sonkhaskar & Dr. P. B. Shiwalkar.
- Simran Siddhigui has used Laser Cutting & Engraving Machine for the project of “Development of a portable urine analyser” under the guidance of Dr. Jayu Kalambe.
- Rajveer Singh, Sumit R. & Nikhil B. had used Laser Cutting & Engraving machine for the project of Solar Cleaner under the guidance of Deshmukh.
- Vani Kaushik used Laser Cutting & Engraving machine for the project under the guidance of Prof. Manish Bhaiyya.

4] Visit of Eminent persons to RCOEM-TATA-CIIT:



Dr. Indu Mazumdar from NADP, Nagpur



Prof. TVK Gupta, Mech. Engg. Dept. VNIT Nagpur



Student and Faculty from Budhwanti Education and Research Foundation, Nagpur



Tulsiramji Gaiwad Patil College of Engg. Nagpur



Student and Faculty from YCCE, Nagpur



Shri Vikas Rastogi, Principal Secretary, Higher and Technical Education Department, Govt. of Maharashtra



Shri Bhagwandasji Daga, member of Executive Committee, RCOEM



J D College of Engg. & Mng. Nagpur



Students from Govt. ITI, Umred



Dr. S S Limaye, Former Principal RCOEM, Nagpur