



### Institute Vision

To achieve excellence in engineering education with strong ethical values.

### Institute Mission

To impart high quality Technical Education through :

- Innovative and Interactive learning process and high quality, internationally recognized instructional programs.
- Fostering a scientific temper among students by the means of a liaison with the Academia, Industries and Government.
- Preparing students from diverse backgrounds to have aptitude for research and spirit of Professionalism.
- Inculcating in students a respect for fellow human beings and responsibility towards the society.

### Department Vision

To build electrical engineers with a global perspective and a strong dedication to Societal service.

### Department Mission

**M1:** To transform the students from diverse background into skilled electrical engineers.

**M2:** To enhance industrial interaction to meet the changing industrial needs.

**M3:** To serve society with deep awareness of social responsibilities and ethical values.



**DEPARTMENTAL ACTIVITIES**

**Expert Talk on Basics of Energy conservation and Audit**



Electrical Engineering Department, RCPIT, Shirpur organized an Expert talk on "Basics of Energy conservation and Audit" on 03rd November 2022 by Dr. Sanjay Khot. The objective of an expert talk on the basics of energy conservation and audit is to educate the students about the importance of conserving energy and implementing energy audits in various settings. The talk aims to provide a clear understanding of energy conservation principles, techniques, and strategies, while also highlighting the benefits and impact of energy audits. 144 students attended the talk and participated in interaction, with expert.

**Alumni Talk on Entrepreneurship Development-Idea generation, planning and company formation in online mode.**



Electrical Engineering Department, RCPIT, Shirpur organized an Alumni Talk on "Entrepreneurship Development-Idea generation, planning and company formation in online mode." on 26th November 2022 by Mr. Shubham Sugandhi. The objective of an alumni talk on Entrepreneurship Development with a focus on idea generation, planning, and company formation in an online mode can be to inspire and educate students about the entrepreneurial journey, provide practical insights and guidance, and empower them to pursue their own entrepreneurial ventures.

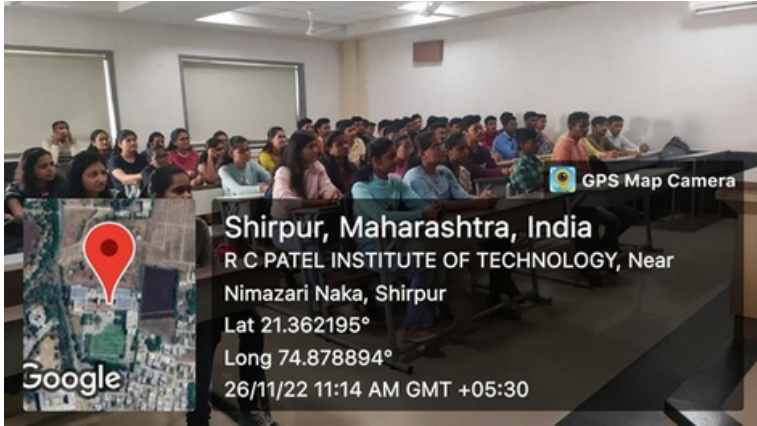
**Alumni Talk on Importance of Curricular and Extracurricular" Activities in Students' growth**



Electrical Engineering Department, RCPIT, Shirpur organized an Alumni Talk on "Importance of Curricular and Extracurricular" Activities in Students' growth." on 16th February 2022 by Mr. Darshan Borse. The objective of an alumni talk on the importance of curricular and extracurricular activities in students' growth is to highlight the significant role these activities play in shaping a well-rounded education and personal development. The talk aims to emphasize the benefits of both curricular and extracurricular activities and how they contribute to the holistic growth of students. 55 students attended the talk and participated in interaction, with expert.



**Alumni Talk on Opportunities of electrical engineering software industry**



Electrical Engineering Department, RCPIT, Shirpur organized an Alumni talk on “Opportunities of electrical engineering software industry” on 26th November 2022 by Mr. Tushar Vikas Patil. The objective of an alumni talk on the opportunities of the electrical engineering software industry is to provide current students or recent graduates with insights and information about the potential career paths, growth prospects, and opportunities available in the field. The talk aims to bridge the gap between academia and industry by connecting students with successful alumni who have established themselves in the electrical engineering software industry.

**Alumni Talk on Current market scenario and requirements of DevOps engineer**



Electrical Engineering Department, RCPIT, Shirpur organized an Alumni Talk on “Current market scenario and requirements of DevOps engineer” on 18th March 2023 by Mr. Shivkumar Chaudhari. The objective of an alumni talk on the current market scenario and requirements of a DevOps engineer would typically be to provide valuable insights and guidance to current students or aspiring professionals who are interested in pursuing a career in DevOps. The talk aims to inform and educate the audience about the current state of the job market for DevOps engineers and the skills and qualifications that are in demand. 60 students attended the talk and participated in interaction, with expert.

**STAFF ACHIEVEMENTS**

**Publication**

**Dr. Vijay Shrinath Patil -**

- An Overview of Matlab/Simulink Dynamic Model of an Electric Vehicle's Performance.
- A Comprehensive Approach to Electricity Billing Management Using Java Swing and SQL

**Prof. Bhushan Prataprao Patil -**

- Machine Learning-Based Model to Enhance Smart Grid Reliability

**Prof. Amit Rajendra Mahire -**

- Development of a Hybrid System Combining Solar and Vertical Axis Power

**Prof. Vinitkumar Vasantbhai Patel -**

- Drone (Quadcopter) for Transmission Line and Solar Panel Cleaning

**Prof. Yogesh Kalidas Kirange -**

- Performance and Analysis of Smart Irrigation System Using Internet of Things
- An Overview of Matlab/Simulink Dynamic Model of an Electric Vehicle's Performance.
- A Comprehensive Approach to Electricity Billing Management Using Java Swing and SQL

**Prof. Rupesh Shantaram Patil-**

- Prototype Electric Vehicle Charging Station



**Prof. Krunalkumar Gandhi -**

- Smart Energy Meter Using Lora Protocols and IOT Applications

**Prof. Nilesh Suresh Mahajan -**

- Advance Man less E-Vehicle Charging Station

**Prof. Dhanesh Patil -**

- Arduino Based Smart Dustbin

**Conferences Publication**

**Dr. Vijay Shrinath Patil -**

- Evaluation of Induction Motor Drives Efficiency using ARM-7 based VSI.

**Prof. Vinitkumar Vasantbhai Patel -**

- Evaluation of Induction Motor Drives Efficiency using ARM-7 based VSI.

**Prof. Nadeem Akhtar -**

- DenseResSegnet: A Dense Residual Segnet for Road Detection Using Remote Sensing Images

**Prof. Yogesh Kalidas Kirange -**

- A Survey on Improving Power System Dynamic Stability with a Single Machine Infinite Bus
- Evaluation of Induction Motor Drives Efficiency using ARM-7 based VSI.

**Prof. Rupesh Shantaram Patil-**

- Evaluation of Induction Motor Drives Efficiency using ARM-7 based VSI.

**Prof. Krunalkumar Gandhi -**

- Evaluation of Induction Motor Drives Efficiency using ARM-7 based VSI.

**Prof. Nilesh Suresh Mahajan -**

- Evaluation of Induction Motor Drives Efficiency using ARM-7 based VSI.

**Prof. Dhanesh Patil -**

- Evaluation of Induction Motor Drives Efficiency using ARM-7 based VSI.
- Solar Powered Based Smart Dustbin with Real Time Monitoring- A New Concept in Waste Management

**Patent**

**Dr. Vijay Shrinath Patil -**

- Transformer Theft Detection System
- Wind Vibrating Generator

**Prof. Bhushan Prataprao Patil -**

- Transformer Theft Detection System
- Wind Vibrating Generator

**Prof. Patel Vinitkumar Vasantbhai -**

- Wind Vibrating Generator
- Fatigue Testing Machine

**Prof. Nadeem Akhtar Riyaz Ahmad -**

- Wind Vibrating Generator
- Fatigue Testing Machine
- Divyang Digital Helper

**Prof. Yogesh Kalidas Kirange -**

- An Intelligent Real-Time Monitoring System and Control Method for Grid Attribute Access Control Method Based on Bloom Filter
- Transformer Theft Detection System

**Prof. Sachin Yashwant Sayais -**

- Fatigue Testing Machine

**Prof. Krunalkumar Gandhi -**

- Method for supporting anonymity of data in an advanced metering infrastructure and security method for smart grid system using block chain
- Transformer Theft Detection System

**Prof. Nilesh Suresh Mahajan -**

- IOT & AI Based Ship Hull Data Collection System Employing Temperature and Pressure Sensors
- Solar Integrator
- Transformer Theft Detection System

**Prof. Dhanesh Patil -**

- IOT & AI Based Ship Hull Data Collection System Employing Temperature and Pressure Sensors
- Solar Integrator
- Transformer Theft Detection System

## Faculty Development Program

A Faculty Development Program (FDP) typically aims to enhance the knowledge, skills, and professional development of faculty members in educational institutions.

Prof. Bhushan Prataprao Patil, Prof. Patel Vinitkumar Vasantbhai, Prof. Nadeem Akhtar Riyaz Ahmad, Prof. Yogesh Kalidas Kirange, Prof. Krunalkumar Gandhi, Prof. Nilesh Suresh Mahajan and Prof. Dhanesh Patil have attended 5 days faculty development program "Advances in Electric Vehicle Industry" on 14th September to 18th September 2022 organized by SPCE, Mumbai & SSGBCOE&T, Bhusawal.

## STUDENT CORNER

### Converges'23



RCPIT had arranged converges'23 on 25th February 2023. In which Electrical Department, Students arranged an activity, "IDEATHON," in which participants presented a poster on different innovative ideas. Many Participants from different institutes participated in IDEATHON. Prof. Nilesh Mahajan was the coordinator of IDEATHON. Kalyani Chaudhari, Salunkhe Shweta from Third year electrical engineering actively coordinated with first year electrical engineering students to make this event successful.

The objectives of an IDEATHON poster presentation -

- Showcase Innovative Ideas
- Engage and Inform the Audience

## Vihangam



RCPIT has a club named "Samarpan." This club organizes different activities in the Institute. Samarpan club initiated an activity called "Vihangam - ek kadam pakshiyo ki aur" to feed water to the birds on 25th April 2023. Chaudhari Sejal and Chaudhari Dimpal, from third-year electrical engineering, are members of this team.

## Farewell



As we bid adieu to our remarkable students, we celebrate their achievements, their growth, and the indelible mark they have left on our institution. The legacy they leave behind is one of inspiration, determination, and the unwavering belief in the power of education. As they set sail towards new horizons, we wish them success, fulfillment, and an unwavering passion to make a difference in the world.



Farewell, dear students, and may your journey be filled with endless opportunities and the realization of your dreams.

### Maharashtra Din

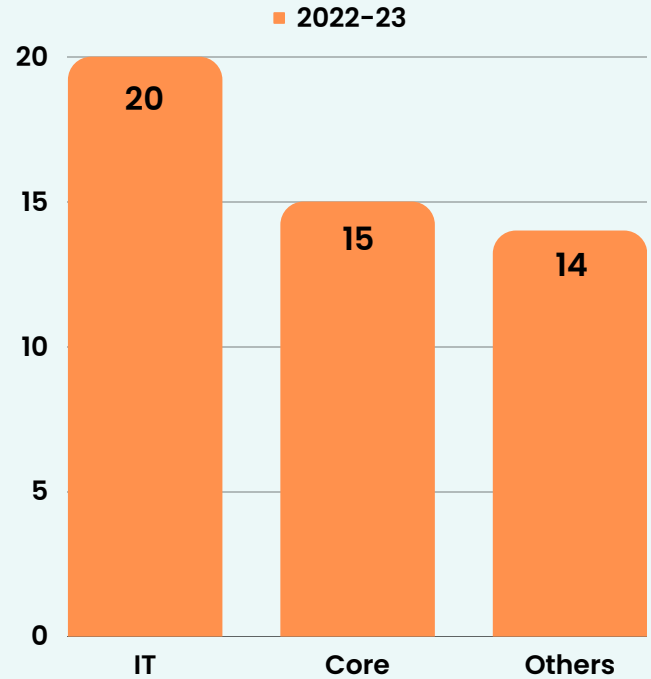


Maharashtra Din, also known as Maharashtra Day, is celebrated on May 1st every year. It is a significant day for the state of Maharashtra. Maharashtra Day commemorates the formation of the state of Maharashtra, which occurred on May 1, 1960. RCPIT had arranged Maharashtra Din as Traditional Day. Staff and Students Electrical Department actively celebrated Maharashtra Din.

## PLACEMENT ACTIVITY

### Placement Record

The goal of college placement is to connect students with prospective employers and facilitate the transition from academic life to professional careers. Prof. Vinitkumar Vasantbhai Patel is works as Electrical Department Placement Coordinator. In 2022-23, T & P cell gave a very good opportunity to the students. In the current academic year, 49 students from final-year electrical engineering students have got placement offer in different Companies like Atos, Clover, Infosys, etc. Among these 49 placements, 40 students got unique offers, and 9 got multiple offers. This year students got maximum package of 7 LPA, average package of 3 LPA, and minimum package of 1.2 LPA.



out of 49 placement offers, students got 20 offers from IT sector, 15 offers from core industries, and 14 offers from others.