May 2025

WE GLOW THE WORLD

Department of Electrical Engineering

SHOCKWAVES (Newsletter) Volume-22 Issue-02

Our Inspiration

Smt. Pratibhatai Patil
Former
President of India
&
Dr. D. R. Shekhawat
Former Chairman

VISION

To emerge as the leading Electrical Engineering department for inclusive development of students.

MISSION

To provide student-centered conducive environment for preparing knowledgeable, competent and value added electrical engineers.

Shri. Raosaheb Shekhawat
Chairman & Managing Trustee

PROGRAM OUTCOMES(POs)

1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2	**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3	**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4	**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5	**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6	**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7	**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11	**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12	**Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES(PSOs)

1	Apply principles of engineering, electronics and computer science; basic science, mathematics (including differential equations, discrete mathematics and linear algebra) and laboratory skills for building, testing, operation and maintenance of electrical systems.
2	Model, analyse, design, and realize physical systems, components or processes related to electrical engineering systems.
3	Be prepared to work professionally in power systems engineering, control systems engineering and software industries.

MoU Signed by Department

A Memorandum of Understanding (MoU) is a formal agreement between two or more parties. Companies and organizations can use MoUs to establish official partnerships.

Purpose of MoU

The purpose of Department MoU with Industry can minimize the gap between learning and carrier opportunity. The industry has many new technology requirements, so **Industry-Academic Interaction** plays a vital role in the **Placements and Carrier growth for the students.** We have signed MoU with the following Academic and industry Institutes. The MoU is intended to recognize the general basis for a cooperative and a collaborative working relationship between the two parties. The purpose of MoU is to have mutual intentions to jointly work on projects required for industries and research needs, with learned faculty of good industrial experience and promising students, jointly agree to exchange their expertise for mutual benefit and growth, on the areas specified below:

- Industrial Visits
- In-plant Training & special Technical Training to make the students industry-ready
- Guest Lectures
- Mini Projects and Main Project Work
- Research & Development
- Problem Solving
- Studies & Survey
- Placements
- Internships
- Establishing Advanced Labs

S.N.	Name of Institute/Industry	Date of Signed MoU	Duration of MoU
1	**7 P arallels Tectrno-Consultants Pvt. Ltd.** Llnit1.6, Lotus Star, Plot No. D-5 Cross Road N o.20, MIDC, Andheri tE), Mumbai-40 0 09 3 Maharashtra	13th Sep , 2021	Two Years
2	**Automation Services & Prolific Systems & Technologies Pvt. Ltd**. PLC & SCADA Automation Training, 36, Preet Chamber, Mumbai-Pune highway, Wakadewadi, Shivajinag ar, Pune -411003, Mah arashtra	13th Sep , 2021	Two Years
3	**7 P arallels Tectrno-Consultants Pvt. Ltd.** Llnit1.6, Lotus Star, Plot No. D-5 Cross Road N o.20, MIDC, Andheri tE), Mumbai-40 0 09 3 Maharashtra	10th Jan, 2022	Two Years

Guest Lecture by Alumni

“Emerging Courses in Electrical Engineering

17th Feb 2025

The purpose of Guest Lecture to provide career oriented course and bridge the gap curriculum. The aim of the program is to disseminate knowledge about Industrial requirements and its future scope.

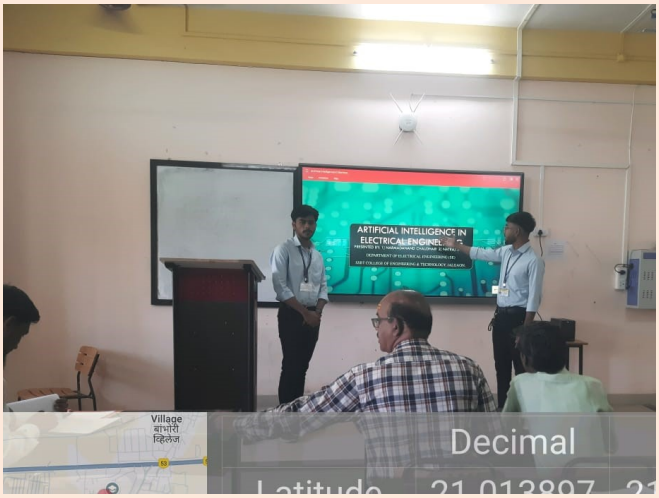
Ms. Gargi Jadhav, alumni of our college of 2024 batch and presently working as ***Qaulity Control Engineer in Dhoot Transmission Pvt Ltd***, SambhajiNagar , has delivered key note address to Electrical Engineering students on 17/02/2024. He highlighted need, necessity and requirements of Emerging Courses in Electrical Engineering. He also talked about demands of Electrical Design ,Electrical AutoCAD and PLC SCADA in Electrical Industraies. On behalf of department we congratulated him for opting career in core field and wished him best wishes for his bright future.

Activities Conducted

Milstone2K25

Scavenger Hunt : 22th Feb 2025, On the occasion of Milestone 2k25 team Electrical Participated and achieve 1st position in the Scavenger Hunt Event. Whole Electrical Dept are gave congratulation to Sali Himanshu ,Kavde Bhavesh,Patil Rushikesh and Wankhede Dipak (TE Electrical).

Milstone2K25



Paper Presentation , A paper presentation was organized on 22th March 2025. Miss Shinde Devyani Meghraj (SE) got First Prize and Miss. Veena Waykole (TE) got Second prize. Miss. Riya Rajput got Consolidates prize from M. M. Ansari HOD Electrical. Judgment of Paper Presentation was given by Dr. S. M. Shembekar and Dr. R. R. Karhe (Faculty of Electrical Department).

Activities Conducted

Add-On Course on "Fundamental of PLC with Hand-On "

27th to 29th March. 2025

Purpose of Program

The purpose of Add-On Course to provide career oriented course and bridge the gap curriculum. The aim of the program is to disseminate knowledge about recent trends in electrical engineering for sustainable development.

Objective of Program

The objectives of course are that students will able to understand the role of industrial automation for different processes based on PLC system and its requirement. It also provide basic operation of programmable logic control and its function. Students will learn the input-output devices for the PLC, its operation, its selection according to application and its interfacing. It also helps to understand the application in different industries like power sector, in pharmaceuticals, in automobile industry etc and its installation.

Description about Program

This course describes PLC based Industrial Automation system which will improve the knowledge of the students about industrial processes using automation. The course will cover PLC systems in terms of their architecture, their interface to the process hardware, the functionality and the application development facilities.

Course Content

This course attempts to provide a synoptic overview PLC, PLC Hardware, PLC Software, Introduction to Relays, Basic PLC Programming, Instruction set Toggle switches, Motor Automation, Project Showcase ,Hand-On of above topics

Outcome of Program

After successful completion of this course the student will be able to:

1. Apply the knowledge of automation in machine control.
2. Conduct practical in realistic constrain in manufacturing, testing and maintenance field.
3. Design an automation system for fast and value added quality product for economic growth through technological development.
4. Solve engineering solution for fast growing industrial sector with reliable atomized system using PLC and SCADA system.
5. Decide the type of control logic and hardware for given engineering problems.

Activities Conducted

Add-On Course on "Fundamental of PLC with Hand-On "

Activities Conducted

PLC & SCADA Automation Training,

MOU Activity: Electrical Engineering Department organized one day workshop on PLC and SCADA Automation training in collaboration with Automation Services & Prolific Systems & Technologies Pvt. Ltd. Pune.

Achievement

Sports:

14 March 2024

Inter college First Prize

Sports Event: Volleyball

Sultane Sonal Anil (TE Electrical)

- **Mr. M. Mujtahid Ansari** (Faculty Member) had completed NPTEL Certificate 08 Week Course ***Vehicle Dynanics and Electrical Motor Drives,*** and 04 Week Course ***Taeching and Laerning Methods*** funded by the MoE , Govt. of India.
- **Mr. V. S. Pawar** (Faculty Member) had completed NPTEL Certificate 08 Week Course ***Vehicle Dynanics and Electrical Motor Drives,*** and 12 Week Course ***PowerQuality*** funded by the MoE , Govt. of India.
- **Mr. Muqueem. M. Khan** (Faculty Member) had completed SWAYAM Certificate 12 Week Course ***Digital Electronics and Microprocessor,*** funded by the MoE , Govt. of India.

Placement 2024-25

Sr. No.	Name of student placed	Name of the employer	Pay Package at appointment (LPA)
1	Patil Chetan Sanjay	Dhoot Automotive System pvt.Ltd	1.8
		Essem Auto Electrical Pvt. Ltd, Pune	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
2	Patil Ratnakar Sanjay	Dhoot Automotive System pvt.Ltd	1.8
		Essem Auto Electrical Pvt. Ltd, Pune	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
3	Sahil Hanuman Ghadge	Dhoot Automotive System pvt.Ltd	1.8
		Essem Auto Electrical Pvt. Ltd, Pune	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
4	Sonawane Jayashri Namdeo	Dhoot Automotive System pvt.Ltd	1.8
		Essem Auto Electrical Pvt. Ltd, Pune	1.8
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
5	Sapakale Kalpesh Rajendra	Essem Auto Electrical Pvt. Ltd pune	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
6	Marathe Ajit Ravindra	Essem Auto Electrical Pvt. Ltd pune	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
7	Badhe Dipak Ganesh	Essem Auto Electrical Pvt. Ltd Pune	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
8	More Mayur Ravindra	Dhoot Automotive System pvt.Ltd	1.8

Sr. No.	Name of student placed	Name of the employer	Pay Package at appointment (LPA)
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
9	Nale Prathamesh Rama	Dhoot Automotive System pvt.Ltd	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
10	Chaudhari Om Narendra	Dhoot Automotive System pvt.Ltd	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
11	Patil Yogesh Ramesh	Dhoot Automotive System pvt.Ltd	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
12	Sharma Gaurav Rajkumar	Dhoot Automotive System pvt.Ltd	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
13	Krushnakant Gulabrao Sambare	Dhoot Automotive System pvt.Ltd	1.8
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
15	Sarode Hemant Vasudev	Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
16	Bagul Swapnil Shivaji	Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8
17	Sufiyan Ahmed Shaikh Ni-sar	Epitome Components Pvt. Ltd., Nagar & Supa	2.16
18	Magare Jayesh Maharu	Epitome Components Pvt. Ltd., Nagar & Supa	2.16
		Warner Electronics Pvt. Ltd. Sambhajinagar	1.8

Newsletter Committee

Faculty Members :	**Mr. V. S. Pawar (Editor)**	**Mr. M M Khan(Designer)**
Student Coordinators:	Ms. Jaiswal Aashika (TE)	Mr. Sharma Gaurav (BE)

Dr. G. K. Patnaik
Principal

Dr. S. B. Pawar
Vice-Principal

Mr. M. M. Ansari
Head, Electrical Engg. Dept.