



Dec 2025



Shram Sadhna Bombay Trust's College of Engineering & Technology, Bambhori, Jalgaon



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

Department of Electrical Engineering

SHOCKWAVES (Newsletter) Volume-23 Issue-01

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

S.N.	Name of Institute/Industry	Date of Signed MoU	Duration of MoU
1	ELEMCH ENGINEERS, E-48,59,50,57/4/1/4, MIDC Dhule 424006	16 th Jan , 2025	Two Years
2	Automation Services & Prolific Systems & Technologies Pvt. Ltd. PLC & SCADA Automation Training, 36, Preet Chamber, Mumbai-Pune highway, Wakadewadi, Shivajinagar, Pune -411003, Maharashtra	28 th Oct , 2024	Two Years
3	Trans Electrical, E-17 /4, MIDC Jalgaon 425003	28 th Oct , 2024	Two Years
4	Electrosoft System, PLC SCADA Automation Training Institute, 1st Floor Gokul Building Dnyaneshwar Padyka, FC Road Shivajinagar,	20 th Mar 2025	Two Year

Activities Conducted

Second Year Induction Program

Date and Venue/ Location	23rd July, 2025 Electrical Engineering Department
Guest	Ms. Yamini Narkhade Director, Gargi Electrical and Enterprises Alumni Batch: 2015-16
Objectives	<p>Academic Familiarization: To introduce students to the academic structure, curriculum, and key subjects in Electrical Engineering.</p> <p>Institutional Orientation: To familiarize students with the vision, mission, infrastructure, facilities, and culture of the institute.</p> <p>Skill Development: To cultivate essential soft skills such as communication, teamwork, time management, and problem-solving.</p> <p>Confidence Building: To boost self-confidence and reduce anxiety related to a new academic environment through interactive sessions and mentorship.</p>
Participants	SE Students
Outcome	<p>Informed Students: Students will understand the structure and expectations of the Electrical Engineering program.</p> <p>Improved Engagement: Higher participation in academic and co-curricular activities from the outset.</p> <p>Enhanced Readiness: Students will be mentally and emotionally prepared to take on academic challenges.</p> <p>Awareness of Opportunities: Students will have a clear idea of available opportunities, including internships, projects, and higher studies.</p> <p>Professional Mind-set: A sense of responsibility, ethics, and professional conduct will be cultivated early on.</p>

Activities Conducted

Second Year Induction Program



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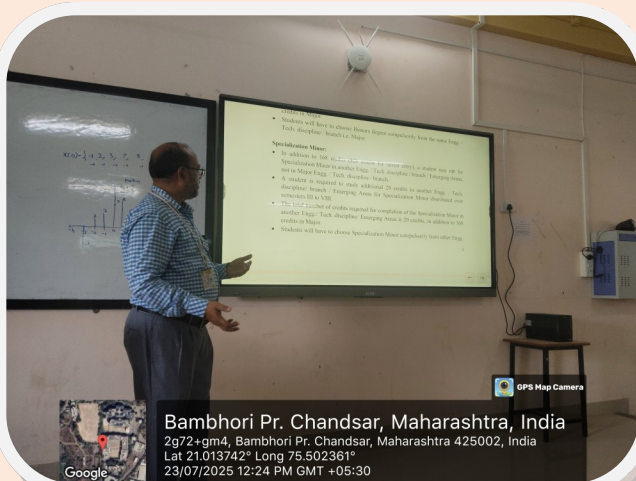
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Activities Conducted

Expert Talk By Alumni



Mr. Shhyam Prajapati

Dean, Department of Industrial Design,
UID, Karnavati University,
Gandhinagar

Ms. Yamini Narkhade

Director
Gargi Electrical and
Enterprises
Alumni Batch: 2015-16



Activities Conducted

Add-On Course on “Industrial Automation with Hands-on”

28th to 30th August 2025 (TE and BE Electrical)

Objectives of Program

The objectives of course are that students will be able to understand the role of industrial automation for different processes based on PLC system and its requirement. It also provides 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.

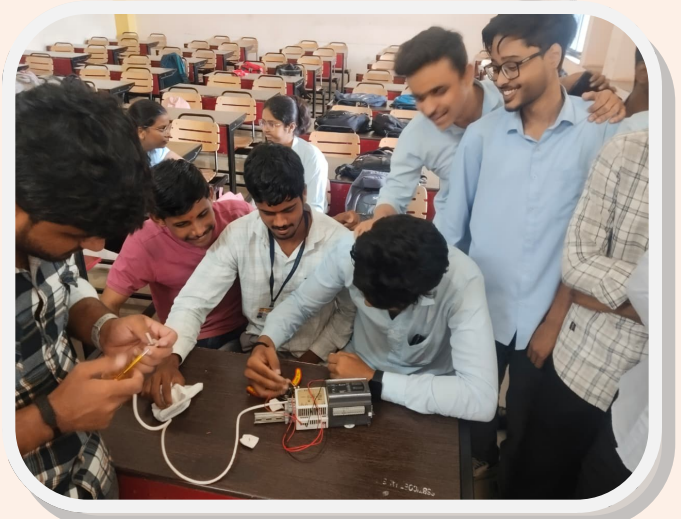
Course Contents

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.

Outcomes

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.
6. Decide the type of control logic and hardware for given engineering problems .



Activities Conducted

Add-On Course on "Hands -On Fundamental of MATLAB & Electrical

28th to 30th August 2025 (SE Electrical)

Objectives of Program

To provide Hands on Fundamentals on MATLAB and Auto-CAD software which uses in Electrical Engineering. Understand the fundamentals of MATLAB environment and navigate the basic features. Auto-CAD Essential Training enables students to create a basic 2D drawing in the Auto-CAD software.

Course Contents

The MATLAB Programming course, Comprehensive understanding of MATLAB, a high-level language Basics of Matlab Modeling to enhance their skills in MATLAB. Hands on Auto CAD covers the basic concepts of drawing and construction. This course equips users with basic drawing skills to solve problems in AutoCAD.

Outcomes

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

1. Increased Productivity. AutoCAD users can rapidly and precisely generate complicated designs, increase productivity, and reduce project completion ime.
2. Acquire fundamental skills in using MATLAB and Auto-CAD
3. MATLAB makes solving technical computing problems easier and more efficient than with other programming languages.
4. Getting Started with Your First Computer Learn all about getting started with computers .
6. Hands on practices on MATLAB and Electrical Auto-CAD .



Activities Conducted

Industrial Visit

04th Sept 2025 (BE Electrical)

Objectives of Program

The main objective behind these visits is to explain the working of industrial equipments in running conditions to the students and tell them about the expectations of the industrialists from the fresh engineers.

Participants Profile

The program is designed to help students to gain confidence and enhance their knowledge in a new field of Industrial field. The industrial visit explores the present scenario of industry requirement.

Total Participants

55

Description about the Company

Jain Irrigation Systems Limited, headquartered at Jalgaon, Maharashtra, India is a diversified agricultural conglomerate with a turnover in excess of US\$ 1.2 Billion. It has a global presence with 33 manufacturing bases spread over four continents. Their products are supplied to 126+ countries with able assistance from 11,000+ dealers and distributors worldwide. With over 5 decades of efforts and presence in the marketplace, it has reached to over 10 million farmers in making them prosperous.

Products of Company:

1. Drip irrigation Filters, Dosing Pumps & Injectors
2. Micro & Mini Sprinklers, Sprinklers Irrigation
3. PVC Pipes, PE Pipes & Fittings etc.



Teacher's Day Celebration

05th Sept. 2025

Celebrate the role played by teachers in community upliftment. Recognize the central role teachers play in nurturing and guiding infants, children, youth and adults through the life-long learning process trends.



Engineer's Day Celebration



Activities Conducted

FE Induction Program

27th Sep., 2025

Location :Electrical Engineering Department

Purpose of Student Induction Program is to help new students adjust and feel comfortable in the new environment, inculcate in them the ethos and culture of the institution, help them build bonds with other students and faculty members, and expose them to a sense of larger purpose and self-exploration.

Objective of Program

Student Induction Programme engages with the new students as soon as they come into the institution; before regular classes start. At the start of the induction, the incumbents learn about the institutional policies, processes, practices, culture and values, and their mentor groups are formed.

Course Content

Department Presentation, Interaction with Alumni ,NSS activity ,Application Passport : Procedure ,Department Visit. ,Field Visit

Outcome of Program

Students Induction could cover a number of different aspects (SAGE):

1. **Socializing:** meeting other new students, senior students, students union, Lectures by Eminent People.
2. **Associating:** visits to University / college, visits to Dept./Branch/ Program of study & important places on campus, local area, city and so on.
3. **Governing:** rules and regulations, student support etc.
4. **Experiencing:** Subject lectures, study skills, small-group activities, physical activity, creative and performing arts, literary activities, universal human values, etc.

Activities Conducted

FE Induction Program



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Department Presentation



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Department Photo



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Department Visit



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Department Visit



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Interaction with student



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Field Visit

Activities Conducted

AAVISHKAR-2025

12th Dec 2025

A university Level idea representation event by the name Aavishkar organizes by University. In this Event two group from First years Electrical Engineering are participated and also from faculty group Mr M. M. Ansari (HOD) Electrical Engineering successfully represented their idea



University Results

Result 2025-26 Term-I UG (As per SGPA)

BE



1st Topper
JAISWAL AASHIKA RAJESH
SGPA: 9.43



2nd Topper
LOHAR NIKITA DINESH
SGPA: 9.24



3rd Topper
PATIL RUSHIKESH VISHAL
SGPA: 9.14

TE



1st Topper
PATIL BHAVANA RAJENDRA
SGPA: 9.14



2nd Topper
SHINDE DEVYANI MEGHRAJ
SGPA: 9.00

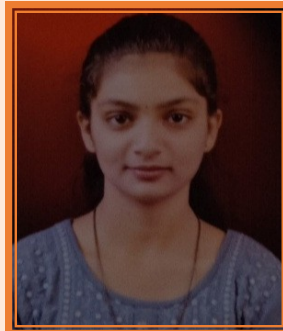


3rd Topper
PATIL AISHWARIYA VIJAY
SGPA: 8.71

SE



1st Topper
DHOBI MOHAN PRADIP
SGPA: 7.81



2nd Topper
NIKAM VAISHNAVI RAMSING
SGPA: 7.76



3rd Topper
PARDESHI VINAYAK KIRAN
SGPA: 7.67

Newsletter Committee

Faculty Members :

Mr. V. S. Pawar (Editor)

Mr. M. M. Khan (Designer)

Student Coordinators:

Ms. Jaiswal Aashika (BE)

Ms. PATIL BHAVANA (TE)



Dr. G. K. Patnaik
Principal



Dr. S. B. Pawar
Vice-Principal



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