



Dec 2024



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.

Department of Electrical Engineering

**SHOCKWAVES (Newsletter)** Volume-22 Issue-01

### Activities Conducted

## Add-On Course on "Sustainable Energy Technology and Innovation"

26th to 31st August 2024 (30 Hours Duration) (TE & BE Electrical)

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 recent trends in electrical engineering for sustainable development.

This course is intended for graduate students but it is also open to senior undergraduate students. There is no official pre-requisite at the time of enrolment. However, basic knowledge of power systems, basic knowledge of computer will be helpful.

#### Objective of Program

To provide recent trends in Sustainable Energy technology, Distributed Generation, Power Quality issues, recent trends & challenges in power system protection for Smart Grid

#### Course Content

This course attempts to provide a synoptic overview of the rapidly developing ecosystem of sustainable energy technologies that are being developed to improve the efficiency and sustainability of current energy systems and to develop a more flexible energy grid and energy storage system for the future.

#### Outcome of Program

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

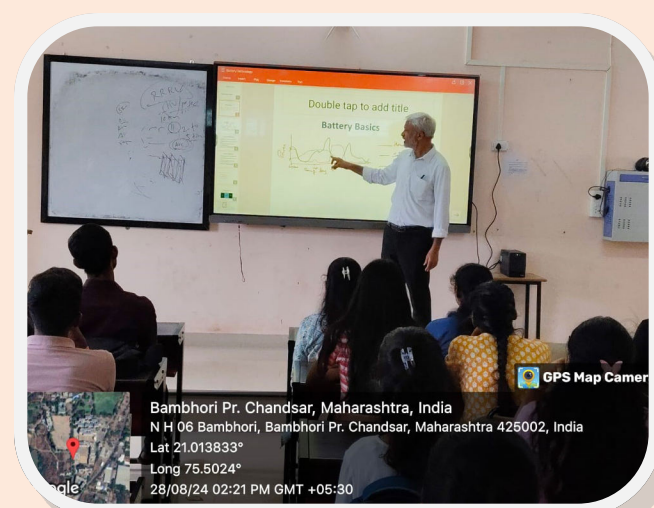
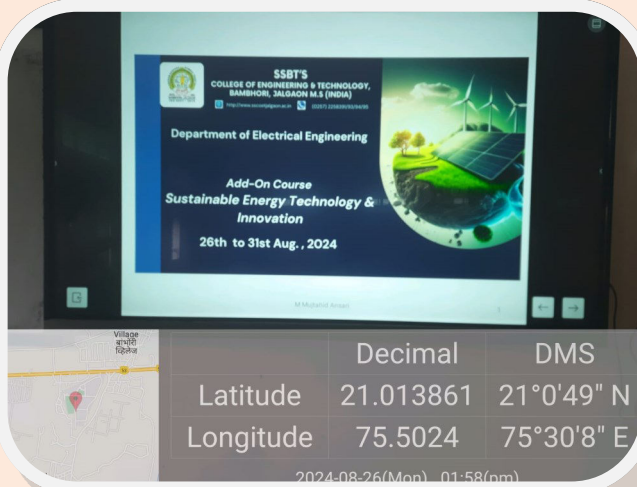
1. Understand the recent trends in electrical Engineering..
2. Understand concept and issue of power generation.
3. Understand concept of sustainable energy technology.
4. Understand the relation between sustainable energy and sustainable development of country.
5. Understand new trends in energy storage system.
6. Hands on practices in operation and maintenance of On Grid PV Solar plant.



Shri. Raosaheb Shekhawat  
Chairman & Managing Trustee

## Activities Conducted

### Add-On Course on "Sustainable Energy Technology and Innovation"





## Activities Conducted

### Add-On Course on “Fundamental of MATLAB & Electrical Auto-CAD”

26th to 31st August 2024 (30 Hours Duration) (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.

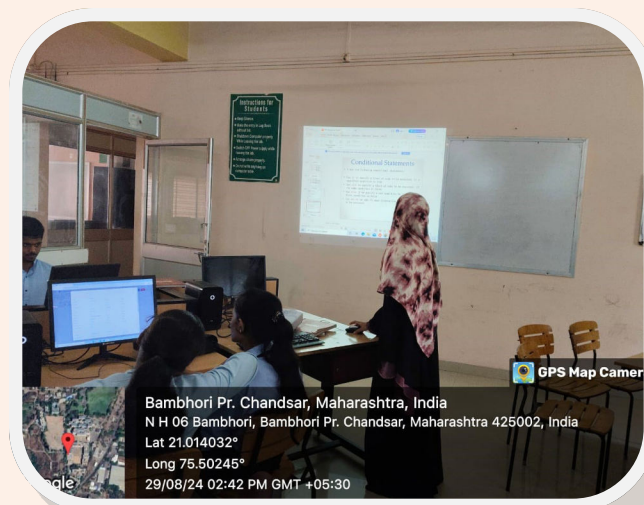
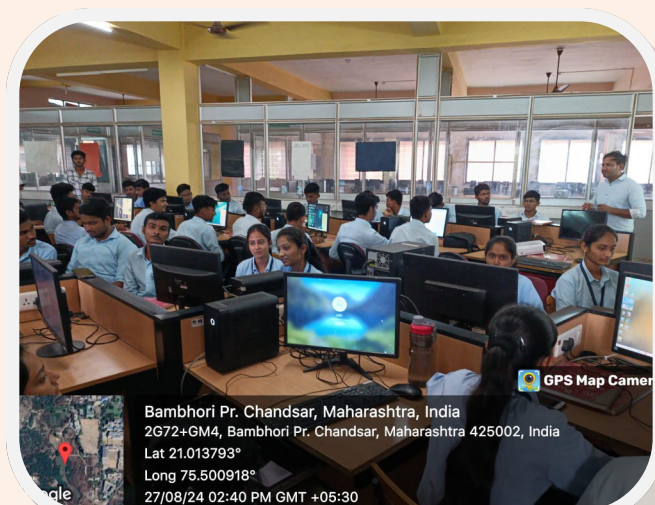
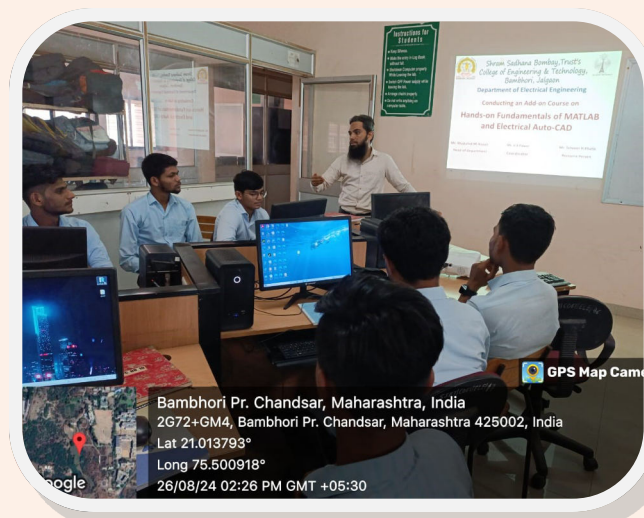
#### Course Contents

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 .



### PROGRAM OUTCOMES(POs)

1	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3	<b>Design/development of solutions:</b> 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	<b>Conduct investigations of complex problems:</b> 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	<b>Modern tool usage:</b> 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	<b>The engineer and society:</b> 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	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8	<b>Ethics:</b> 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	<b>Communication:</b> 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	<b>Project management and finance:</b> 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	<b>Life-long learning:</b> 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.

## Teacher's Day Celebration

05<sup>th</sup> Sept. 2024

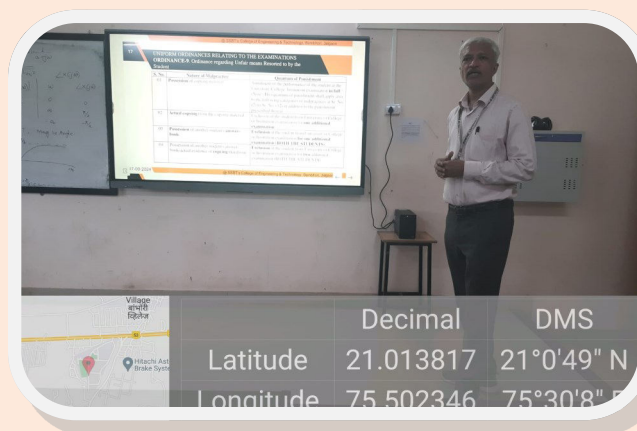
Celebrate the role played by teachers in community upliftment. Recognize the central role teachers play in nurturing and guiding infants, children, youth and adults through the life-long learning process. trends.



## Stress and Copy Free Examination

### Objectives:

- From where does this EXAM STRESS come ?
- WHY DO I FORGET WHAT I HAVE LEARN.
- HOW TO MANAGE EXAM STRESS.
- UNIFORM ORDINANCES RELATING TO THE EXAMINATIONS ORDINANCE.



### Outcomes:

Affirm Positive Self Talk & BE Confidence: Be Confident

1. Think worst come worst what will happen if you do not succeed or do not do good in this exam q Will this be the end of exams or end of your life...?
2. Failure is not Failure, Failure is not getting up after Failing..
3. Do not think what other people think about you or your exam.
4. Ordinance regarding Unfair means Resorted to by the Students.



## Activities Conducted

### FE Induction Program

19<sup>th</sup> Sep., 2024

**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

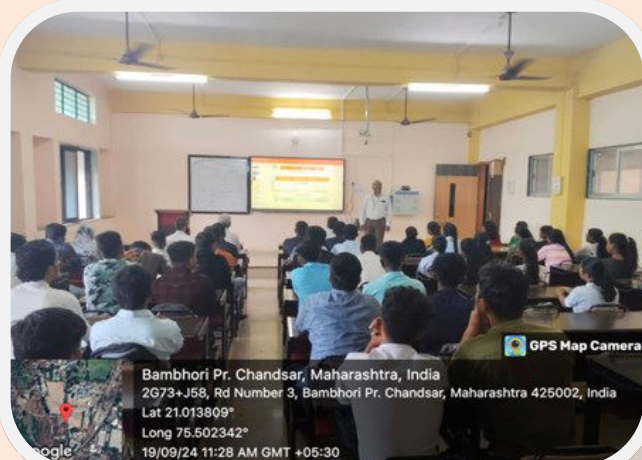
#### Outcome of Program

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



Department Presentation



Department Visit



Department Visit



Alumni Interaction



Interaction with senior student



Field Visit



## Student Achievements

### Intercollege Sports



- Dated On 28/09/2024 K.B.C.N.M.U. Inter College Volleyball Sports Tournament was organized at Dhanadai Mata College Amalner. In this sports competition, the male and female teams of our college performed excellently and the girls team got the first rank. Also, the boys' team won third place.
- In Femal Team ,Jayshree Sonawne (BE Electrical),Kalyani Vispute and Sultane sonal (TE EE), Mali Swati (SE EE) and Patil Bhagyashree where as Male team mahajan Suraj and Chetan mali (TE EE) participated from Electrical Depatment.

- dated On 28/09/2024 K.B.C.N.M.U. Inter College BasketBall Sports Tournament was organized at College Amalner. In this sports competition, the female teams of our college performed excellently and the girls team got the first rank.
- In Femal Team ,Patil Unnati (TE Electrical), participated from Electrical Depatment



### National Education Day



Department of Electrical Engineering are successfully conducted the national education day on birth anniversary of Dr. Abdul Kalam Azad.

Introduction is given by Mr. V. S. Pawar (Faculty) and details explanation on education as well as the role of Dr. Abdul Kalam Azad in freedom of India is given by Mr. M.M. Ansari (HOD EE).



## Industrial Visit



### Topic: “ ”

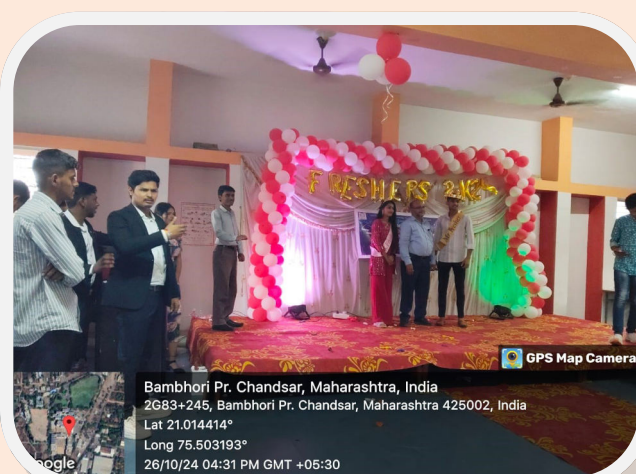
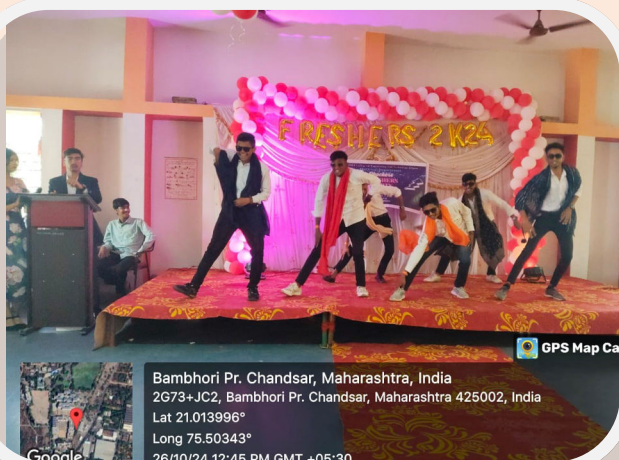
The visit on 09th Oct 2024 220/132/33kV Digital Substation, MSETCL the knowledge industry organization, new trends in manufacturing, maintenance and safety. The industrial visit provide the practical visualization of theoretical study of various engineering subject.

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.

Third Year and Final Year Students with Four Faculty visited in this Substation and learn more practical about substation component its working and live demonstration. Most appreciable point is that the Executive Engineer of this Substation Mr. Nazim Shaikh is the alumni of this College.

## Activities Conducted

### Fresher 2K24



## Academics Achievements

### Six Faculties of Department Successfully Completed 7 Swayam NPTEL Course December 2024

Sr.No	Name Of Faculty	Course Name	No of Week
1.	Mr. M. M. Ansari	1.Advances in UHV Transmission and Distribution 2.DC Microgrid and Control System	08
2.	Mr. V.A Shinde	Advances in UHV Transmission and Distribution	08
3.	Mr. Muqueem. M. Khan	Advance Power Electronics and Control	08
4.	Mr.V.S Pawar	Power Electronics Applications in Power Systems	12
5.	Dr. R. R. Karhe	Introduction to Industry 4.0 & Industrial IOT	12
6.	Dr. S. M. Shembekar	Electrical Distribution System Analysis	12



## Activities Conducted

### Expert Lecture



#### Aim and Objectives:

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.

The objectives of Guest Lecture are that students will be able to understand the role of Electrical Engineer in industries. Recent trends to fulfill challenges in industries.

#### Outcomes:

1. Apply the knowledge electrical engineering for problem solving.
2. Design and conduct practical in realistic constrain in manufacturing, testing and maintenance field.
3. Design the automation system for fast and value added quality product for economical growth through technological development.
4. Understand work and man power management.
5. Do higher study in field of automation and able use updated software and tools.



## University Results

### Result 2023-24 Term-I UG (As per SGPA)

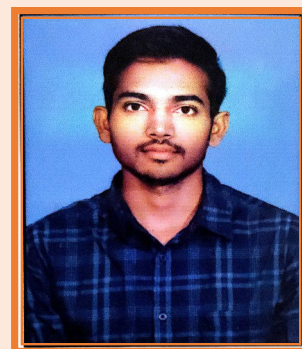
#### BE



**1<sup>st</sup> Topper**  
SAHIL HANUMAN GHADGE  
SGPA: 8.71



**2<sup>nd</sup> Topper**  
SHARMA GAURAV RAJKUMAR  
SGPA: 8.71



**3<sup>rd</sup> Topper**  
SAPKALE KALPESH RAJENDRA  
SGPA: 8.62

**TE**

**1<sup>st</sup> Topper**  
SALI HIMANSHU DEELIP  
SGPA: 8.91



**2<sup>nd</sup> Topper**  
JAISWAL AASHIKA RAJESH  
SGPA: 8.86



**3<sup>rd</sup> Topper**  
LOHAR NIKITA DINESH  
SGPA: 8.76

**SE**

**1<sup>st</sup> Topper**  
MALI SWATI NAMDEO  
SGPA: 8.25



**2<sup>nd</sup> Topper**  
SHINDE DEVYANI MEGHRAJ  
SGPA: 8.00



**3<sup>rd</sup> Topper**  
PATIL Aishwarya Vijay  
SGPA: 7.85

**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.