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

JAN-JUNE 2023

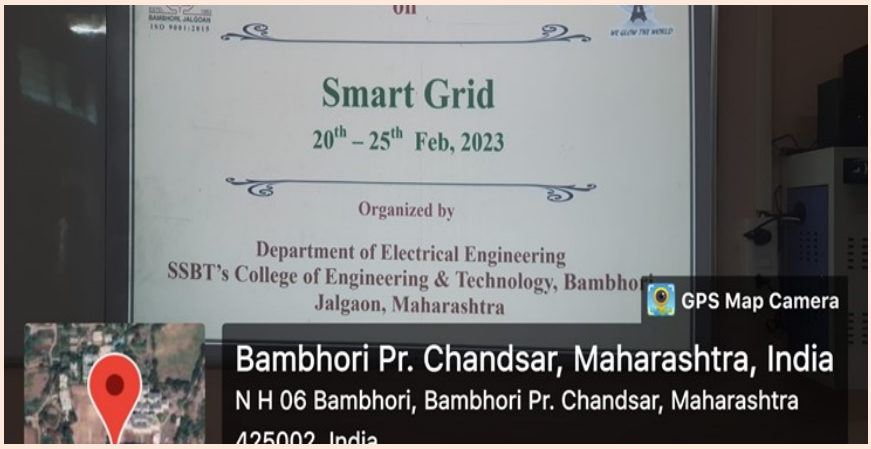
Department of Electrical Engineering

SHOCKWAVES (Newsletter) Volume-X, Issue-II

Activities Conducted

Add-On Course on "Smart Grid"

20th to 25th Feb 2023 (30 Hours Duration)



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 Smart Electric Grid and its future scope. Economical and Environment impact of Smart Electric Grid.

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 and communications networks, and some background in probability and random variables, linear algebra, and convex optimization will be helpful.

Objective of Program

The objective of the program is to provide students with a working knowledge of fundamentals and development of Smart Electric Grid, from the basic concepts of power systems.

Outcome of Program

The program helps the students to

1. Understand the fundamental element of the smart grid and power grid.
2. Understand different communication technologies used in smart grids.
3. Get accustomed with the fundamentals of SCADA and IED.

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.

Activities Conducted

Workshop on "Introduction to AutoCAD"

Workshop on "Introduction to AutoCAD"

1st to 2nd June, 2023

The main purpose of AutoCAD is to create or design 2D and 3D design. it is computer aided design software. AutoCAD is a design tool which will reduce the human efforts compared manual drafting. AutoCAD will eliminate the human error and can be used to draft complex geometry in less time. To provide a thorough grounding in AutoCAD, learning how to produce accurate 2D drawings.

AutoCAD Essentials training provides a thorough grounding in AutoCAD. On completing the course you will be able to produce accurate 2D drawings. The course runs for three days. On the first day trainees learn the basic commands and techniques used for drawing in AutoCAD. On the second day these skills are put into practice. It is short and intensive, combining lecture, demonstration and hands-on practice.

Objective of Program

The objective of the program is to provide a thorough grounding in AutoCAD, learning how to produce accurate 2D drawings.

Outcome of Program

The program helps the students to

1. Become familiar with the AutoCAD user interface.

Guest Lecture by Alumni

Topic: Opportunity of Electrical Engineering in Industrial Automation"

28th December 2022

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 Automation and its future scope. Economical impact of industrial production growth by Industrial Automation

Mr. Rajendra Patil, alumni of our college of 2020 batch and presently working as Automation Engineer, Affordable Robotics and Automation Pvt Ltd Pune, has delivered key note address to first year Electrical Engineering students on 28/12/2022. He highlighted need, necessity and requirements of the industry from core field Electrical Engineering. He also talked about demands of Electric vehicles, BLDC motors and construction of Electric charging stations across the lengths and breadth of India. On behalf of department we congratulated him for opting career in core field and wished him best wishes for his bright future.

Activities Conducted

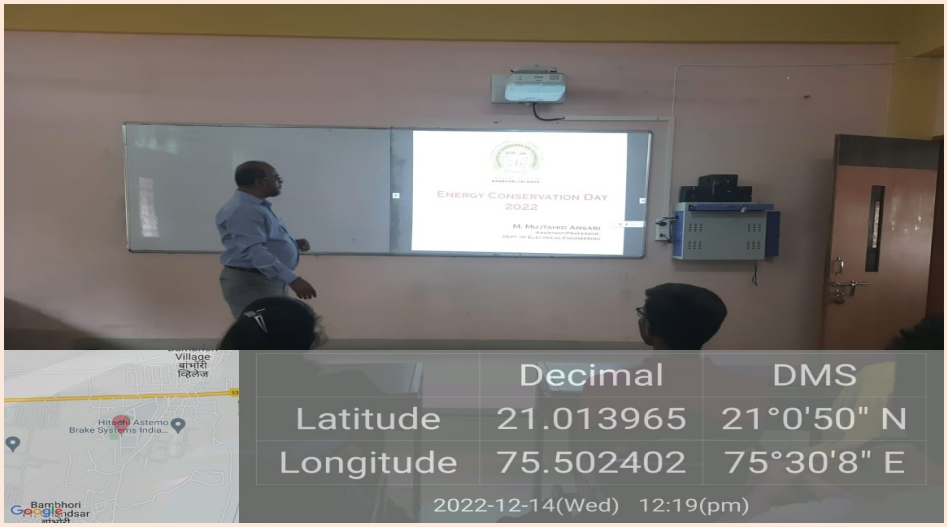
Farewell Party

The 06 May 20223 With the aim of giving a farewell to the previous batch Students, SE, TE & BE Electrical Students organized Farewell Party 2023, Farewell Party on 6th May 2023 from 11:00 am to 05:00 pm at Non AC Seminar Hall.

Aim and Purpose -Farewell party is a great way to give send off to friends, classmates, and

loved the one with great memories.

National Education Day



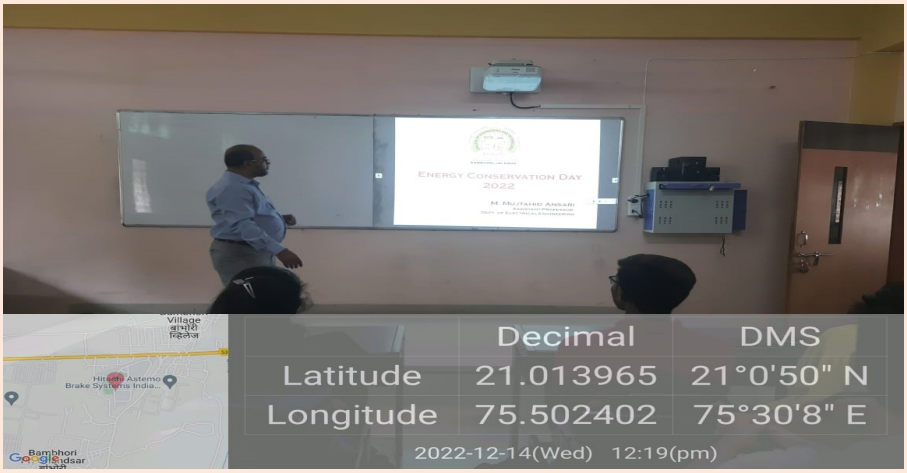
The National education Day program was celebrated on 11th Nov. 2022. The Government of India, Ministry of Human Resource Development has declared 11th November as “National Education Day”, to commemorate the Birth anniversary of Maulana Abul Kalam Azad an eminent educationist, great freedom fighter, and the first Education Minister of India .

Constitution Day

Constitution Day, also known as "National Law Day", is celebrated in India on 26 November every year to commemorate the adoption of the Constitution of India. On 26 November 1949, the Constituent Assembly of India adopted to the Constitution of India, and it came into effect on 26 January

Activities Conducted

National Energy Conservation Day



Department celebrated National Energy Conservation Day on 14th December 2022.

The Objectives of activity are to understand the need of energy audit and conservation , social and environmental cause , demand side management, energy efficient motor , lighting,

Final Year Group Photo Batch 2022-23

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

University Results

Result 2022-23 UG (As per CGPA)

BE

Rane Deven Sharad
CGPA: 9.23

Jadhav Sneha Jitendra
CGPA: 9.2

Patil Bhushan Sandip
CGPA: 9.16

TE

Kasar Jagruti Kailas ,CGPA: 8.57

Jadhav Mangeshi Ravindra ,CGPA: 8.24

Mali Tanvi Sukdeo
CGPA: 8.24

Patil Mahima Anil
CGPA: 9.44(Goldmedlist)
Ist Topper

Newsletter Committee

Faculty Members :	**Mr. V. S. Pawar (Editor)**	**Mr. V A Shinde(Designer)**
Student Coordinators:	Mr. Jayesh Mali (BE)	Ms. Hemangi M. Charhate(BE)

Campus Placement 2022-23

Electrical Department

BE

Mayuri Patil
Spectrum Electrical Ltd
Mumbai(LPA) 5.0

Nakul Ganesh Patil
Kiran Academic, Pune
Pay Package (LPA) 2.4

Tejas Nivrutti Mahajan
Kiran Academic, Pune
Pay Package (LPA) 2.4

BE

Harshal A Bhombe
Epitome Compo-
nents, LPA –1.8

Chetana Badgujar
Epitome Components, LPA
1.8

Hemanji Charethe
Kiran Academic, Pune
LPA 1.8

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Dr. G. K. Patnaik
Principal

Dr. S. B. Pawar
Vice-Principal

Mr. V. S. Pawar
Head, Electrical Engg. Dept.