



Viddyut Urja

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Electrical Engineering Department

Editorial Committee:

Dr. G.V.Gotmare, HOD

Mr. A.D.Sahusakde, LEE

Mr. K.R.Kachiyawale, LEE

MODROB Grant form AICTE

Department of electrical engineering received Grant-in-Aid of Rs 6.504 lacs from All India Council for Technical Education, New Delhi under “MODROB POLY-TECHNIC” Scheme for “Switchgear and Protection Laboratory” in financial year 2021- 22.

The equipment approved in this project are Transmission Line Protection kit, Cut section Models of Circuit Breakers, Digital Insulation Tester, Earth Tester, Induction Motor Protection Kit, Lighting Arrester, Numerical Over Current Relay, Transformer Oil Test Kit and Transformer Protection Kit.

Coordinator Dr. Gajanan Gotmare, I/C, HOD and Co-Coordinator Prof. A.D,Sahusakde, faculty of Electrical department are actively involved in submission of MOPDROB project to AICTE under the guidance of Dr.C.D.Golghate,

Faculty Development Training Program

The Electrical Engineering Department and Mechanical Engineering Department jointly organized a five-day faculty development program (FDP) approved and sponsored by MSBTE, Mumbai on “ Electric Vehicles—The Emerging Trends” in online mode. Nearly 40 Polytechnic teachers across Maharashtra participated in the program during 24th to 29th January 2022.

Dr. G.K. Awari, Dr. R.S.Surjuse, Dr. Y.Chandrashekhar, Dr.S.V.Bhagale, Dr. Shrilant Pawar and Mr. Vijay Kumbhar from renowned institution in India and Mr. Yeshudas Jivtode, Mr. Pranad Seth from Tata Motors, Pune, Mr. Vivek Choudhari from Maha Metro, Nagpur were the experts. Dr. C.D.Golghate, Principal, Dr. G.V.Gotmare, Prof. G.H.Dahole and Dr. J.B.Kharpade Coordinator was also worked as an expert. Er. Sanjay Patiil, Dy. General Manager, Tata Motors, Pune inaugurated the program. All faculties of Electrical and Mechanical worked hard for the successful completion of program.

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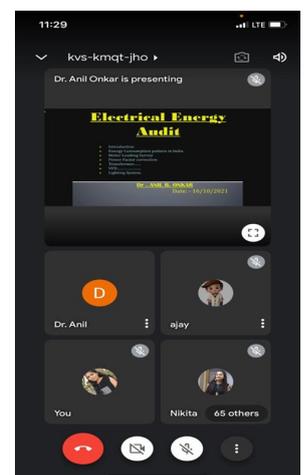
Expert Lecture on Energy Audit

An Expert lecture on “Energy Audit” was conducted by Dr. O.B.Omkar, Former Executive Engineer, MSPGCL KTC, Koradi, Nagpur, for III & V Semester students of Electrical Engineering. The session was conducted on 16th October, 2021, the duration of the session was two hours.

Mr. A.D.Sahusakde welcomes the guest and Mr. H.H.Kharkar introduces the speaker to the students.

The expert explained the importance of Energy Conservation and Energy Audit in Industrial as well as day to day life.

This lecture will benefit the students for achieving *PO1 and PO7*.



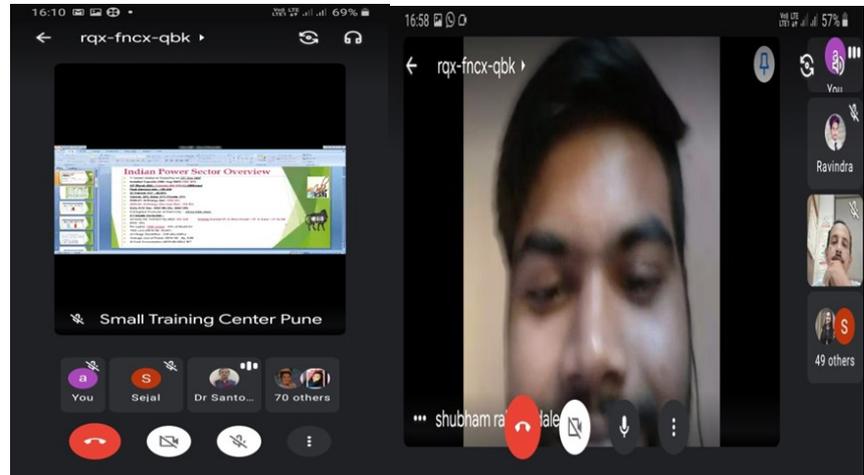
Expert Lecture on Challenges for Electrical Engineer in Industry

A guidance on the theme- "Challenges for Electrical Engineer in Industry" by the Eminent Engineer Dr. Santosh R. Patani, Deputy Executive Engineer, MSEDCL, Pune was organized on 21st October 2021 for Electrical Engineering Students of third and fifth semester.

Dr. Santosh R. Patani illustrated the current scenario of Electrical Power Sector and Scope of the Electrical Engineer in power Industry.

Mr. Aashish Sahusakde, introduced the speaker and proposed vote of thanks.

This expert lecture will benefits the students for achieving *PO6* and *PO7*.



Expert Lecture on Fusion Energy



An Expert lecture on "Fusion Energy" was conducted by Dr. Prashant Sharma, HOD, Electronics & Telecommunication G.P.Gondia for III & V Semester students of Electrical Engineering.

The session was conducted on 15th March 2022, the duration of the session was two hour.

The expert explain, applications of Fusion Energy in Electrical Engineering.

Dr. G.V.Gotmare, welcomes speaker and Mr. A.D.Sahusakde introduces the speaker to the students and also proposed vote of thanks.

This expert lecture will benefits the students for achieving *PO4* and *PO7*.

ATAL Academy Faculty Development Program

The Electrical Engineering Department organized a five-day faculty development program (FDP) approved and sponsored by ATAL Academy, New Delhi on "Emerging Trends in Green Energy Technologies" in online mode. 200 participants across India registered for the program which is to be conducted during 21st to 25th February 2022. And 154 participants successfully completed the program as per ATAL academy norms.

Dr. Rajkumar Pant, IITB, Dr. S.K.Tyagi, IITD, Dr. G.N.Tiwari, IITD, Dr. Ashish Gadekar, EU, Mauritius, Dr. Arunachalam N, IITM, Dr. Nitin Labhshetwar, CSIR-NEERI, Nagpur, Mr. Nitin Banait, Tesla EV Academy, Dr. Sanjay Nibandhe, ARAI, Pune, Dr. G.K.Awari, GPN, Dr. R.M.Moharil, YCCE, Nagpur, Dr. Nagraj Sitaram, EPCET, Bangalore, Dr. C.D. Golghare, GPG, Dr. P.S.Sharma, GPG, Prof. Sandeep Lambhade, GPS were the experts.

Dr. Praveer Sinha CEO and Managing Director, Tata Power Company Ltd. was Chief Guest and Smt. Mamta R Agrawal Advisor-I AICTE was Guest of Honor for Inauguration.

Dr. G.V.Gotmare, I/C HOD Electrical Engg. and Dr. J.B.Khurpade, Selection Grade Lecturer coordinated the program.

All faculties of Electrical and Mechanical worked hard for the successful completion of program.

Events under ISTE



- Debate competition on 17th October, 2021.
- Paper Presentation competition on 22nd October 2021 .
- Technical Writing competition on 30th October 2021.
- Technical Quiz competition on 1st November 2021.
- Poster Presentation competition on 2nd December 2021.
- Total 97 students of electrical engineering participated in the various events.

- Mr. H.N.Kharkar, In-charge Extra Curricular activities, Mr. K.R. Kachiyawale, ISTE In-charge and all visiting faculties of department worked hard for successful completion of all events.
- Dr. Gajanan Gotmare HOD congratulated the winner and runner of all the events.

Event	First Prize	Second Prize	Third Prize
Debate competition	Shubham Rahangdale	Ruchita Jain	Yamini Bisen & Bhumeshwar Bonde
Paper Presentation competition	Nikita Thakare Payal Rane Bhumendra Harinkhede Shivani Lute Kiran Rokade	Shubham Rahangdale Vaibhav Funde Ravindra Shrivasa Rahul Lilhare Mohit Rahangdale	Ruchita Gautam Mukul Bhelave
Technical Writing competition	Yamini Bisen	Neha Pardhi	Roshani Bisen
Technical Quiz competition	Rakesh Tembhare	Sahil Lanjewar	Pranay Wadibhasme
Poster Presentation competition	Bhumeshwar Bonde	Pranay Wadibhasme	

Industrial Visits

A Industrial visit was organized on 14th December, 2021 at “33 kV/11kV Substation” at Fulchur, Gondia. 53 students of third year electrical engineering attended along with Mr. A.D.Sahasakde, and Mr. K.R.Kachiyawale LEE .

Second Industrial visit was organized on 14th December, 2021 at “Factory Installation” at Fulchur Gondia 48 students of second year electrical engineering attended along with Dr. G.V.Gotmare

These industrial visits will benefit the students for achieving *PO1, PO5, PO6 and PO7*.



Photographs of Industrial Visit

Electrical Engineering Department

Government Polytechnic,
Fulchur Peth,
Gondia (MS)
PIN 441601

Phone: 07182-235136
Fax: 07182-235136
E-mail: hodeegpgondia@gmail.com

Save Energy

www.gpgondia.org



Vision of Program

To develop self motivated, skilled electrical engineers, having professional ethics, to serve industries and society.

Mission of Program

- M1: To impart electrical engineering knowledge for life-long learning.
- M2: To develop electrical engineers to render services to industries and society.
- M3: To inculcate professional and ethical values.
- M4: To provide environment, to develop leadership and effective communication abilities.

PEOs, POs, PSOs of Electrical Engineering Program

Program Educational Objective (PEOs)

- PEO 1. Provide socially responsible, environment friendly solutions to Electrical engineering related broad-based problems adapting professional ethics.
- PEO 2. Adapt state-of-the-art Electrical engineering broad-based technologies to work in multi-disciplinary work environments.
- PEO 3. Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Program Outcomes (POs)

PO1: Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and

engineering specialization to solve the engineering problems.

PO2: Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.

PO3: Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4: Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO5: Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment

and ethical practices.

PO6: Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7: Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes (PSOs)

PSO 1. Electrical Equipment: Maintain various types of rotating and static electrical equipment.

PSO 2. Electric Power Systems: Maintain different types of electrical power systems.