

# NEWSLETTER

## ELECTRICAL ENGINEERING DEPARTMENT KALANIKETAN POLYTECHNIC COLLEGE, JABALPUR

(An Autonomous Institute declared by Government of Madhya Pradesh)



Vol. - 04, ISSUE - 02, December 2021

### FROM PRINCIPAL'S DESK:

I am very glad to know that Electrical Engineering Department presenting this Edition for the month of December 2021, during the lockdown period. I appreciate all my students who are attending online lectures, taking good effort for taking part in online workshops, Expert Lectures, celebrations and online examinations too. I also appreciate faculty members for their online work during period. Expecting same co-operation from all of you in future.



Dr. R. C. Pandey, Principal

### HOD MESSAGE:

I congratulate the faculty of Electrical Engineering Department for success in publication of departmental Newsletter. The sense of accomplishment is more satisfying because of very stressful and difficult situation created by Pandemic of COVID-19. I am blessed to have a team of faculty and staff who changed their working as needed in pandemic situation. Looking forward for same cooperation in future also.



Mrs. A. Pandey, HOD

### VISION:

To develop competent diploma electrical engineers to meet the demand of industry and society.

### MISSION:

1. To impart quality education for producing diploma engineers.
2. To provide best practices and opportunities to be a professional.
3. To inculcate ethical values with lifelong learning.

### PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

1. To acquire knowledge of basic principles of science and engineering.
2. Use and maintain electrical systems, tools and application in field of electrical and allied engineering industry.
3. Ability to practice ethically, lifelong learning, carrier enhancement, work effectively as an individual and team member.
4. To adopt professional and societal needs with environmental sustainability.

### PROGRAMME SPECIFIC OUTCOMES (PSOs):

1. Estimate, install, maintain, test and control of various electrical machines and components in electrical power systems.
2. Select and make use of electrical instrument, equipment and machines used in field.
3. Manage energy efficient appliances and renewable energy sources.

### PROGRAM OUTCOMES (POs):

1. **Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
2. **Problem analysis:** Identify and analyse well-defined engineering problems using codified standard methods.
3. **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.
4. **Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
5. **Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
6. **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.
7. **Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.

### INDEPENDENCE DAY CELEBRATION:

We celebrated "75<sup>th</sup> Independence Day" at our college. Dr. R. C. Pandey, Principal hoisted our national flag.



### ESSAY & DRAWING COMPETITION:

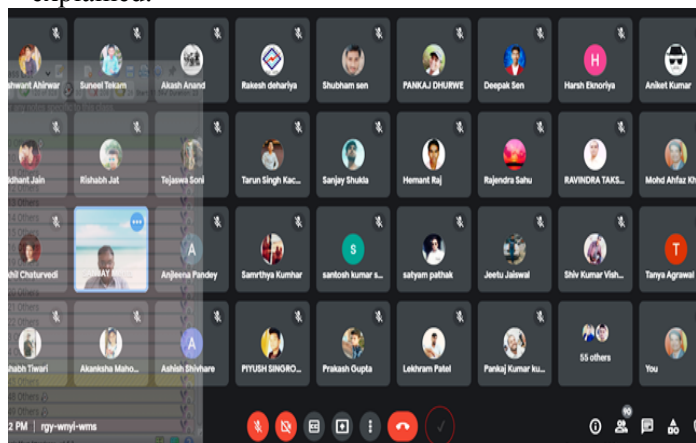
Essay and Drawing Competition conducted on 14/12/2021 virtually on the occasion of "आज़ादी का अमृत महोत्सव" to celebrate and commemorate 75 years of independence.



## EXPERT LECTURE:

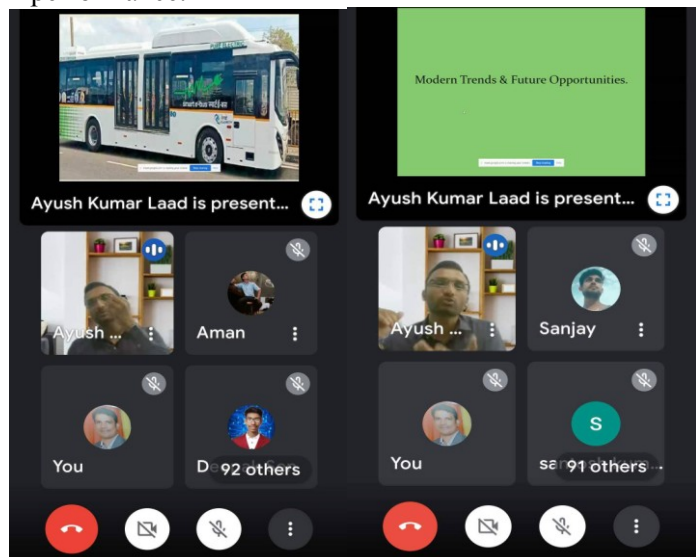
- Online Expert Lecture conducted on “**An overview of Power System and Hydro Power Plant An Industrial Exposure**” under Students’ Chapter given by Shri Sanjay Kumar Mehta Executive Engineer, M.P.P.T.C.L. and Honorary secretary of Institute Engineers (India), Jabalpur local center on 01/09/2021.

Students able to understand how electrical power systems are designed to produce transmit and distribute electricity to the remote consumers economically and in a secure manner. To achieve that power systems are grounded at specific points to provide correct operation of power system. Case studies are also taken to understand the various situations/fault takes place in actual system and their remedial steps are also explained.



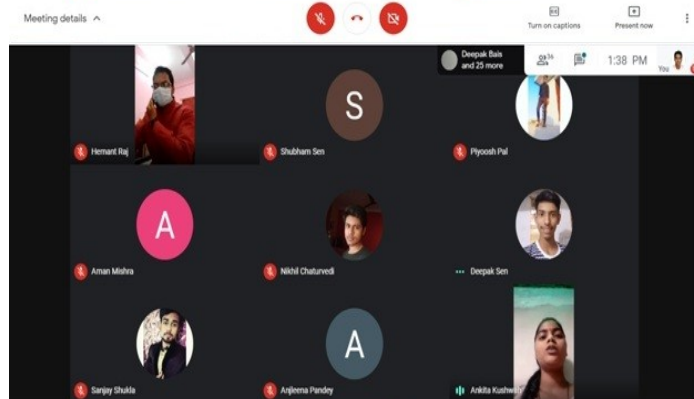
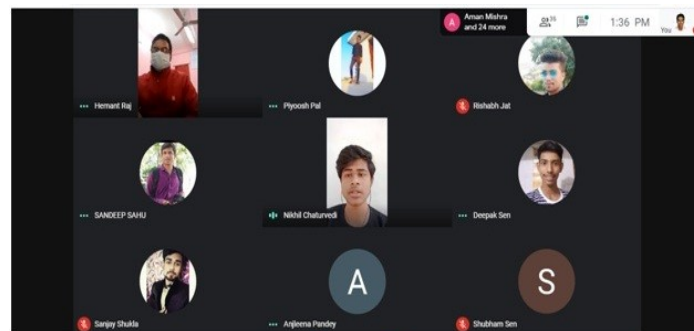
- On the topic “**Electric Vehicle: Recent trends and Future Scope**” an Online Expert Lecture is conducted on 02/09/2021 which was given by Shri Ayush Kumar Laad, Lecturer, Government Polytechnic College, Betul. He explained electric vehicle is defined as a vehicle that can be powered by an electric motor that draws electricity from a battery and is capable of being charged from an external source.

Electric vehicle are more efficient and that combined with the electricity cost means charging an electric vehicle is cheaper than filling petrol, diesel or gas. They are also environment friendly as they do not emit pollutants have low maintenance and better performance.



## SPEECH COMPETITION:

Speech competition is an art of public speaking that improves confidence, written and oral communication skills and critical thinking skills. It enhance participant to create a connection with audience. Keeping in mind we have organized online speech completion on “**Electric Vehicle**” on 28/09/2021.



## TECHNICAL QUIZ:

“**Technical Quiz**” organized on 17/12/2021 by our Department. Various Students participated in this program. It helps to enhance their Technical Knowledge. Quizzes will continue to evolve as we work to improve student learning. Therefore Technical quizzes help students to gain a broad or specialized understanding of a subject. It helps to overcome anxiety and fear in students.



## BOARD OF EDITORS:

Smt. A. Pandey, HOD, [anjleena.pandey@mp.gov.in](mailto:anjleena.pandey@mp.gov.in)  
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