

Samrat Ashok Technological Institute

An Autonomous Engineering College

Vidisha (M.P) 464001

News
Letter



Department of Electrical Engineering



First Edition July - October 2023

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Prepared by : Dr. Shilpi Tomar , Prof. Deepti Jain, J K Singh

Vision & Mission

Vision

To contribute towards development and services to the mankind, through state of art education research in the field of Electrical Engineering.

Mission

To create quality manpower equipped with latest knowledge and development in the field of Electrical Engineering with skills, social values, and creativity for the betterment of mankind.

Message from the HoD Desk



The Department of Electrical Engineering was started in the academic year 1960-61 with an Under Graduate programme. Later on Post Graduate programme in Electrical engineering started in the academic year 1997 - 98 .

The Department of Electrical Engineering is recognized for preeminence in teaching, research and service to profession. The department has a fine amalgam of renowned as well as young and dynamic personalities as faculty is playing an avant-grade role in providing quality education at both under graduate and post graduate level.

Since provenience, the department is producing endowment graduates and postgraduates. The state of art infrastructure and lab facilities, which ensure good exposure and hands on experience for students during learning process. The syllabi of the courses are continuously updated and the laboratories modernized to reflect the rapid changes in technology.

The Department of Electrical Engineering strives to be center of excellence in education, training and research producing high quality engineers and researchers. In this endeavor the department will continuously develop knowledge and quality of staff, upgrade and create program, new laboratory facilities, revise the teaching program acquire adequate new equipment to keep abreast, contribute and progress in emerging technologies and committed for rendering the best service to the society.

It is matter of immense pleasure of the department, to launching first edition of the news letter.

The department faculty members and staff are trying to achieve significant progress regarding academics and other activity.

It is a matter of immense pleasure that department has decided to launched its newsletter the first edition is in your hand the department faculty and staff members are putting their efforts to achieve significant progress in academics curricular and co- curricular activities for the betterment of both staff and students.


I hope that the news letter will reflect the activities of department and impact a positive wives to the students and staff members.

I would like to extend my sincere thanks and congratulations to Dr Shilpi Tomar, Dr Monika Jain, Dr. Jitendra Kumar Tandekar, Prof. Deepti Jain, Mr J. K. Singh for their efforts in completing this newsletter at last but not least I would like to express my sincere thanks to all stakeholders of the department for their sincere efforts. Wish you all the best happy Diwali...!!!!

C. S. Sharma

HoD, Elecreical Engineering

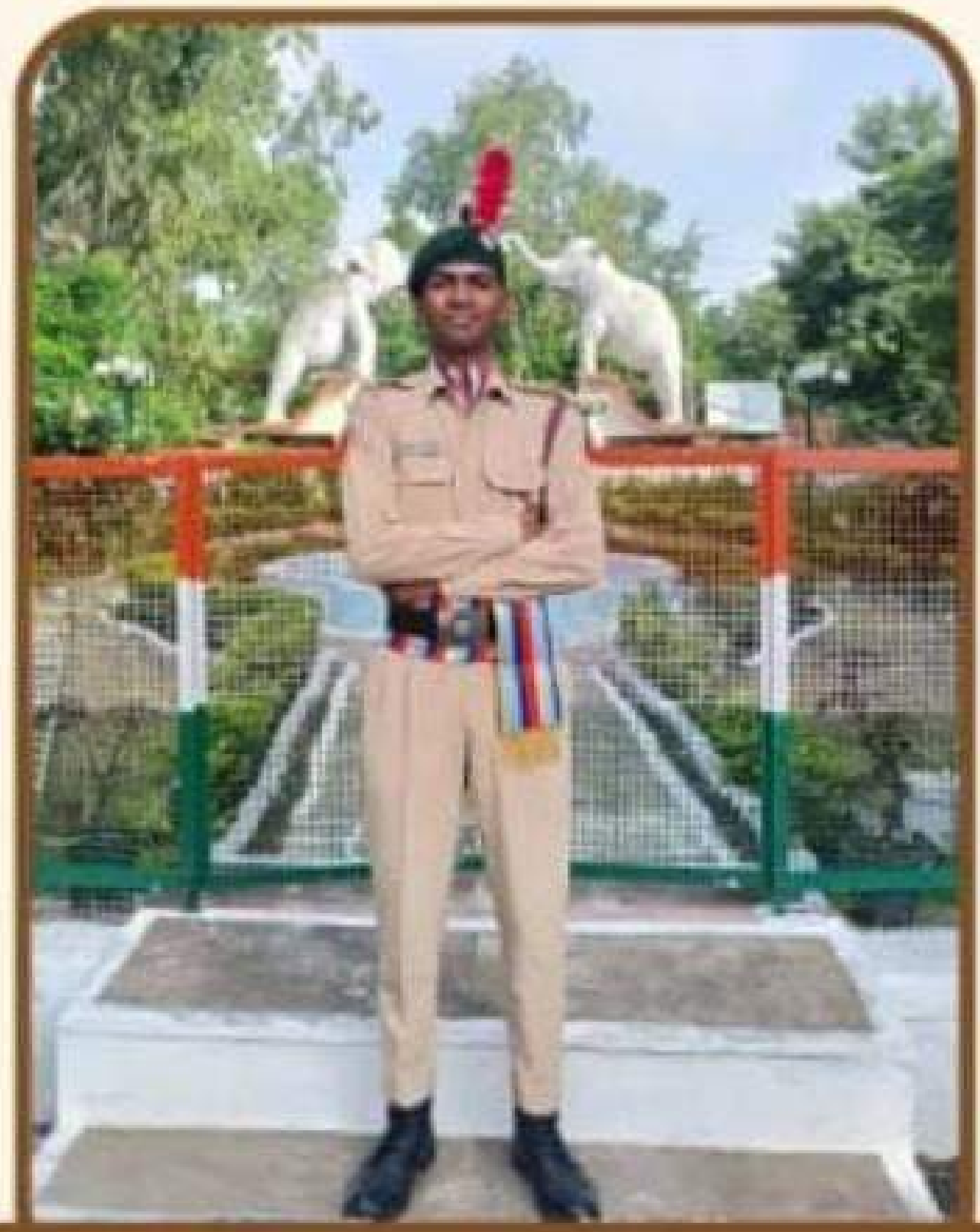
Student Achievement



Samrat Ashok Technological Institute
(Engineering College)
VIDISHA (M.P.)

In Association With :
14MP BATTALION NCC VIDISHA


Congratulations



CDT Arvind Yadav


Represented bhopal group in map reading competition at TSC IGC and awarded silver medal by ADG of MP & CG now representing MP & CG directorate in map reading competition at All India Thal Sainik Camp Delhi-2023.

@nccsati



Samrat Ashok Technological Institute
(Engineering College)
VIDISHA (M.P.)

In association with
14MP BATTALION NCC VIDISHA



ACHIEVERS DISCOURSE

CPL ARVIND YADAV

MEET A BEACON OF DEDICATION AND RESILIENCE, WHO TRIUMPHED AT THE THAL SAINIK CAMP. WITNESS HIS EXTRAORDINARY JOURNEY OF PERSEVERANCE AND LEADERSHIP IN THIS NCC CAMP AT THE ACHIEVERS TALK PROGRAM.

On 15th October 2023

Organizers:
Prof. Usha Tigga CTO (SW) Prof. Mukesh Azad CTO (SD)

For any queries contact:
CDT Manish Kharche (7805975933)
CDT Abhiyendru Narayan (8982766049)

@nccsati

Arvind Yadav represented Bhopal group in Map Reading competition at TSC IGC and awarded Silver Medal 🏆 by ADG Ajay Kumar Mahajan Sir on 9 Aug 2023

And then he was selected for All India Thal Sanik Delhi 2023 which were scheduled from 19 Sept 2023- 30 Sept 2023

Only 91 Cadets from 1,00,400 Cadets got this huge opportunity to represent Madhya Pradesh and Chattisgarh Directorate at All India level at Delhi.

MAJOR ACTIVITIES

Felicitation programme & Expert talk Alumnus 1990 Batch
Er. Rakesh Markhedkar
Chairman & Managing Director - VIKRAN Enggn & EXIM Pvt
Ltd.



Felicited by Dr. L.K Markhedka(r,Sec.MJES), Dr. Akhilesh Tiwari, (Director), C.S Sharma (HoD EE)

Er. Rakesh Markhedkar - Chairman & Managing Director - VIKRAN ENGINEERING & EXIM PVT LTD and our esteemed alumnus, addressed the young engineers at Smart Class Room on 12th October 2023. He shared his journey from Electrical Engineer to Managing Director of VIKRAN Engineering, which include three important turns of his life. Presently the company offices are located in 104 locations around the country; with the annual turnover of Rs. 6500 Corers. He received many awards during his 33 years of journey. Recently he received World most prestigious Business Leader Award "WORLD'S BEST PERFORMING BUSINESS LEADER AWARD, 2023" in Mid Segment category by WCRCINT (WCRC Leaders) at the grand peers Ball room, 'THE HOUSE OF LORDS BRITISH PARLIAMENT, London on 5th of October, 2023.



Er. Rakesh Markhedkar



Vote of thanks by C.S Sharma (HoD EE)



Er. Markhedkar encouraged the students of SATI to do Engineering with full enthusiasm, get placed and also encourage the students for MBA. He encourages the students to become entrepreneur as the world economy is changing and many engineers are becoming job giver instead of job seeker. Now a day 90% of the technical students are moving in this direction. Further, he encourages the students to do their internship from good industry, as well as he also welcome the students do to the internship from his industry. He has declared to give sponsorship of one professor CTC (Cost to Company) theoretically. Further he mentioned the corporate social responsibility (CSR) benefit to our institute, if it is registered under income tax act.

Departmental visit by Er. Rakesh Markhedkar



Right to Left- Prof. Sudhir Sharma, Prof. Deepti Jain, Prof. Praveen Karkare, Prof. S.S Thakur, Dr. Akhilesh Tiwari (Director), Er. Rakesh Markhedkar, Alumnus, Prof. C.S Sharma (HoD), Dr. Monika Jain, Dr. Shilpi Tomar



Patrika News on 13/10/2023

Director Sir with Alumnus



Nukkad Natak on 12th Oct 2023 in the campus , Coordinated by Dr. Jitendra Kumar Tandekar, Assistant Professor, EE Department

Industrial training of UG and PG students in UIT RGPV Shivpuri From 12 - 17 Oct. 2023



Industrial training done of UG and PG students by UIT- RGPV at Shivpuri. Students learned different modules of Renewable energy intregation and updated their knowlege about the latest generation schemes by Government and upcoming technology in present scenario.

Workshop

SAMRAT ASHOK TECHNOLOGICAL INSTITUTE, VIDISHA (M.P)

One Day Workshop
on
“Electrical Logic Control System & its Operations”
11th October 2023, 11 AM

EXPERT
Er. H. S. Rathore
Deputy Engineer
BHEL CNC Press Machine & Electrical Logic



Convener
C S Sharma
Associate Professor,
HoD, Electrical Engineering

Coordinators
Dr. Jitendra Kumar Tandekar
Assistant Professor, EE

Prof. Deepti Jain
Assistant Professor, EE



A warm welcome of Expert Er. H.S Rathore by C.S Sharma,(HoD,EE)



Expertise: Er. Rathore, a Deputy Engineer at BHEL, specializes in CNC press machines and electrical logic control, ensuring a wealth of practical knowledge.

- **Fundamentals:** Participants will gain a strong foundational understanding of electrical logic control systems and their operation.
- **Real-World Applications:** The workshop will delve into practical applications across various industries, illustrating their significance.
- **Programming and Design:** Er. Rathore will provide insights into system programming, design, and the software tools involved.
- **Hands-on Demonstrations:** Expect practical demonstrations to enhance comprehension of system operation.
- **Troubleshooting and Maintenance:** Learn essential tips for troubleshooting issues and maintaining system reliability.
- **Industry Insights:** Stay updated with the latest industry trends and innovations in electrical logic control.
- **Interactive Q&A:** Participants can engage with the expert, seeking clarification and deepening their knowledge.

This workshop promises a valuable learning opportunity, equipping participants with practical insights into electrical logic control systems and their real-world applications.

SAMRAT ASHOK TECHNOLOGICAL INSTITUTE, VIDISHA (M.P)

Expert Talk

on

“Applications of Microcontroller in Power Electronics”

6th October 2023, 11 AM

EXPERT

Prof. R. S. Tare

Retired Professor

SHRI G. S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

Convener

C S Sharma

Associate Professor,

HoD, Electrical Engineering

Coordinators

Dr. Monika Jain

Assistant Professor, EE

Dr. Jitendra Kumar Tandekar

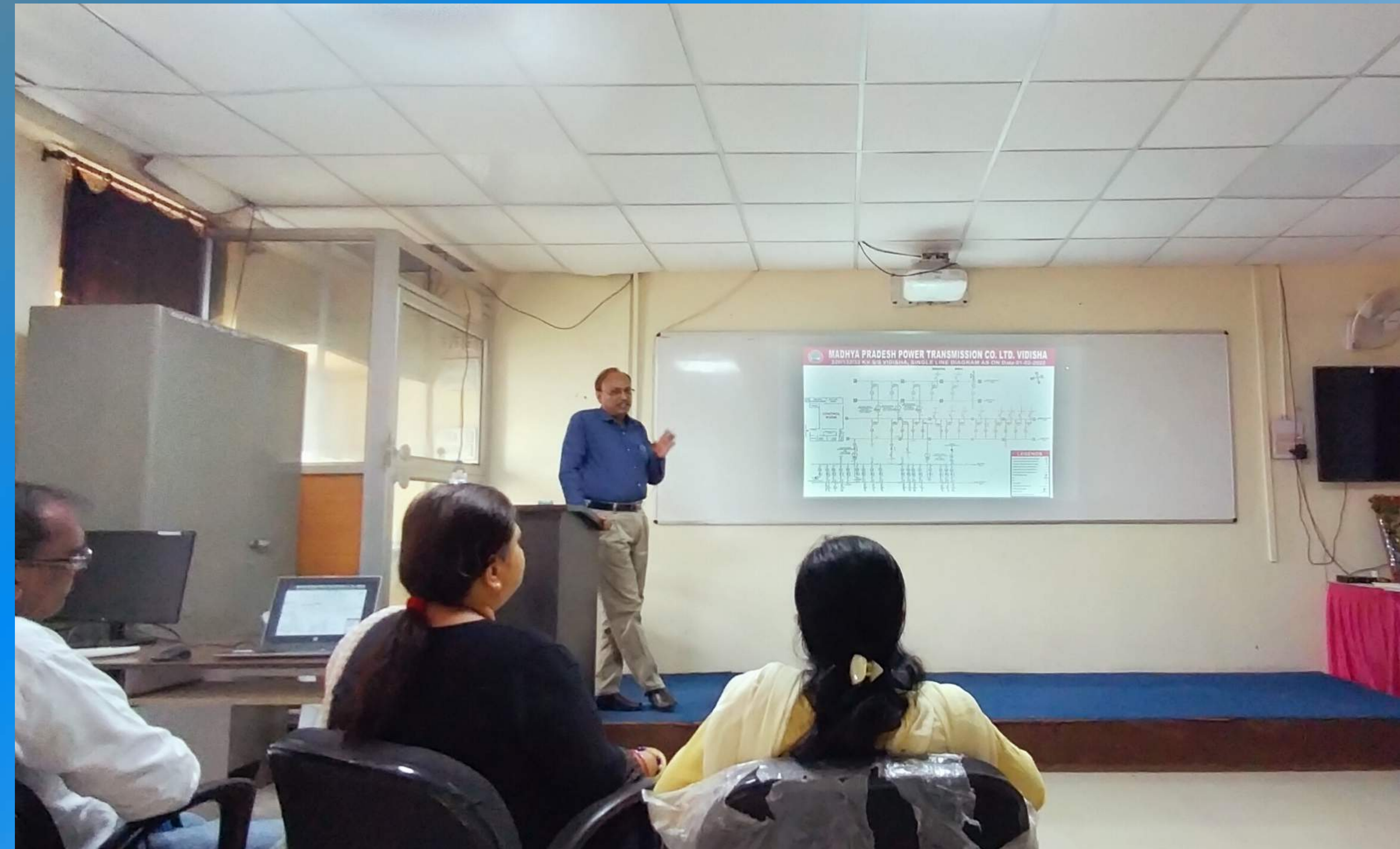
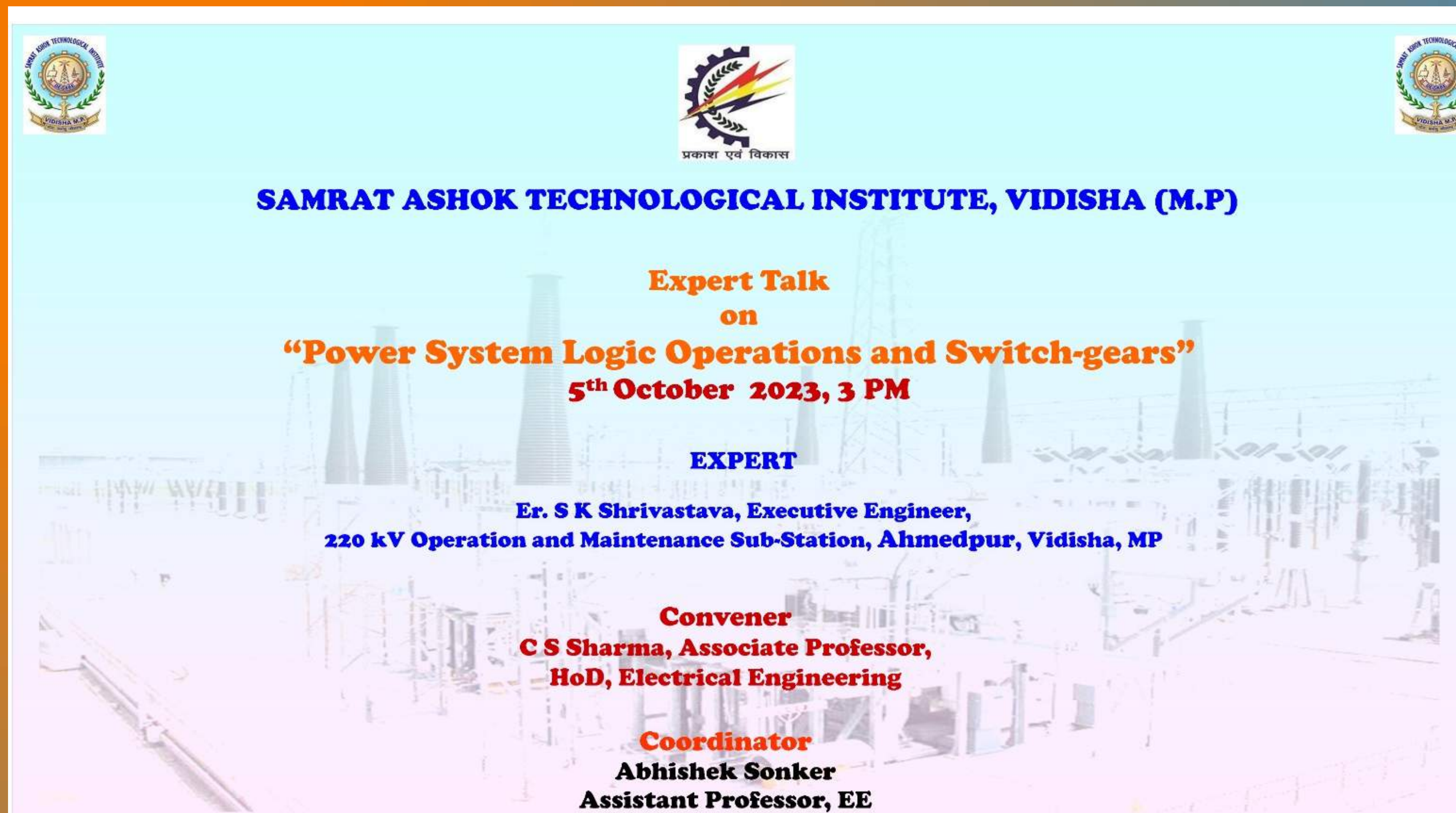
Assistant Professor, EE



Dr. Tare sir explain about the application of arduino for generating the firing pulse for fully controlled device such as half wave rectifier, full wave rectifier, inverter and so on. The session deals with the importance of generating the firing pulse from arduino to these power electronics devices. In addition to this the other components required are supply of 12 V, sample and hold circuit, pulse amplifier and driver circuit. A detail explanation was giving by sir regarding the utility of each component.

Expert Talk

By Er. S. K Shrivastava dated 05-10-2023



Er. S. K. Shrivastava's expert lecture on "Power System Logic Operations & Switchgear" for BTech students on October 5, 2023, is expected to cover the following highlights:

- **Professional Expertise:** Er. S. K. Shrivastava's extensive experience as an Executive Engineer at the 220 kV Operation and Maintenance Substation in Ahmadpur, Vidisha, showcases his profound knowledge of power systems and switchgear.
- **Power System Fundamentals:** The lecture is likely to provide a fundamental understanding of power systems, emphasizing key concepts, components, and their functions in the electrical grid.
- **Logic Operations:** Er. S. K. Shrivastava may delve into the intricate logic operations within power systems, explaining how they influence the reliability and stability of the electrical grid.
- **Switchgear Essentials:** The talk is expected to highlight the importance of switchgear in power systems, detailing their role in protecting equipment and ensuring efficient operation.
- **Safety Measures:** Safety in power system operations is paramount. The lecture might include discussions on safety protocols and best practices in handling switchgear and working within substations.
- **Industry Relevance:** Students can anticipate learning about the latest industry trends, technologies, and innovations in power system operations and switchgear.

The lecture may conclude with a question-and-answer session, allowing students to seek clarification and gain deeper insights into the subject matter. This expert lecture promises to be a valuable educational experience, providing a deeper understanding of power systems and switchgear, while also offering the opportunity to interact with an industry expert.

Hands on Training



HoD EE has given hands-on of EVM to SATI college students at 22 Oct 2023 in SATI Campus

Vishwakarma Pooja in Electrical Machine lab dated 17 September 2023



Vishwakarma Pooja conducted in Electrical Machine lab dated 17 September 2023. All the staff members were present in pooja .

Solar city Technical committee visit with 30 students at Solar Sanchi dated 06.09.2023



Sanchi Solar City has come up as a result of a 3 MW capacity solar project at Nagori near Sanchi. In the near future, a 5 MW solar project will be set up in Gulgaon, which will meet the energy needs of the agriculture sector.

Sanchi Solar City will reduce annual carbon dioxide emissions by more than 14 thousand tonnes, which is equivalent to more than 2 lakh 38 thousand trees. Eco-friendly facilities will prevent environmental pollution. E-vehicles have been promoted. Four commercial charging points and three e-rickshaw charging points have been installed. Running battery vehicles will also save diesel worth more than 9 lakhs.

In Sanchi, about 7 thousand citizens have pledged to save electricity in their homes by using solar stand lamps, solar study lamps and solar lanterns.

Central and state government offices and establishments in the city was conducted.

Under the Energy Literacy Campaign, the people of Sanchi showed awareness in the field of energy saving and energy conservation. Using the plants will reduce electricity bills by about Rs 22 lakh every year.

There will be an annual saving of Rs 7.68 crore in electricity expenditure incurred in the homes of citizens and government works in Sanchi

The concept of solar for every house was successful in Sanchi. Solar plants of about 63 kW capacity have been installed on domestic rooftops. Energy audit of the central and state government offices and establishments in the city was conducted.

Under the Energy Literacy Campaign, the people of Sanchi showed awareness in the field of energy saving and energy conservation. Using the plants will reduce electricity bills by about Rs 22 lakh every year.

There will be an annual saving of Rs 7.68 crore in electricity expenditure incurred in the homes of citizens and government works in Sanchi



Industrial Campus - Visit



Industrial campus visit of 33 kV/440 volt substation and 200 kVA DG Set for EE students dated 14 September

BIS Orientation Program

A presentation slide with a white background and a blue and red logo in the top right corner. The slide is titled "WHAT IS STANDARDIZATION" and "BIS IS BRIDGE". It contains two bullet points under the first title and one under the second. A video inset in the bottom right corner shows a man speaking in a classroom setting.

WHAT IS STANDARDIZATION

- "means documented agreements containing technical specifications or other precise criteria to be used consistently as rules, guidelines, or definitions of characteristics, to ensure that goods, articles, processes, systems and services are fit for their purpose".
- description of goods, article, process, system or service as far as practicable by reference to its nature, quality, strength, purity, composition, quantity, dimensions, weight, grade, durability, origin, age, material, mode of manufacture or processing, consistency and reliability of service delivery or other characteristics to distinguish it from any other goods, article, process, system or service

BIS IS BRIDGE

- BIS is a bridge of assurance between manufacturers/sellers and consumers

Producer

Stop Meeting



Orientation programme of BIS for all departments conducted in smart classroom dated 13 September and lecture delivered by Mr. Shridhar Panday, Bhopal in online mode.

Social Activity



Career Guidance Talk by C.S. Sharma(HoD, EE) in Govt. Higher Secondary School Atarikhejra on 29-08-2023



Krishi Upaj Mandi Samiti on 22/08/2023

Social Activity



Cleaning of well at uday nagar colony on 20-08-2023



Carrier guidance & Hands on EVM for 10th and 12th students, Govt. H.S School, Kwankheri

Social Activity



Voting Awareness and Hands on EVM dated 19 August 2023



Master trainer of EVM Machine

Social Activity



Collector Office Vidisha

4 h · 🌐

स्वीप गतिविधियों के तहत मतदाता जागरूकता की शपथ दिलाई

निर्वाचन आयोग द्वारा जारी दिशा निर्देशों के परिपालन में विदिशा जिले में स्वीकृत गतिविधियों के अंतर्गत आज राज्य स्तरीय मास्टर ट्रेनर श्री विजय कुमार श्रीवास्तव के द्वारा शासकीय उत्कृष्ट विद्यालय में सभी विद्यार्थियों को मतदाता जागरूकता की शपथ का वचन कराया है जिसे सभी विद्यार्थियों के द्वारा दोहराया गया है।

इसके साथ ही मास्टर ट्रेनर श्री श्रीवास्तव ने विभिन्न ग्रामों में मतदाता जागरूकता हेतु ईवीएम मशीन का प्रदर्शन कर आम जनों को मशीन की कार्यप्रणाली से अवगत भी कराया है। उनके द्वारा ग्राम ककरुआ, किरममची बंधेरा, मूडरा हरिसिंह एवं सौराई के ग्रामीण क्षेत्रों में मतदाता जागरूकता रथ एवं ईवीएम मशीन के द्वारा प्रदर्शन कर मतदाताओं को जागरूक करने के लिए मास्टर ट्रेनर चंद्रशेखर शर्मा, रमेश ठाकुर, सत्येंद्र तोमर, नवल सिंह रघुवंशी, चरण सिंह लोधी के द्वारा एवं सचिवों के माध्यम से ग्रामीण क्षेत्रों में मतदाता जागरूकता स्वीप एक्टिविटी के तहत लगातार प्रदर्शन जारी है।

विजय श्रीवास्तव ने बताया 1 अगस्त से 31 अगस्त तक रूट चार्ट अनुसार मतदाता जागरूकता रथ का प्रदर्शन भी निरंतर

On 2nd August 23 to 31 August 2023