

**DIRECTOR'S DESK**



**Hon. Achyut Sawantbhonsale**  
Executive Chairman, SYBES

I am very happy to know that Electrical Department is coming with its another issue of a Newsletter „Jyotirgamaya“ for the academic Year 2023-24. Today, the role of the institute is not only to pursue the academic excellence but also to nurture the holistic development in them. I appreciate the efforts taken by the department for the over a l l development of students. On our part, we are always trying to provide the best to our students. Definitely our future engineers will shine in all fields. I congratulate the team of Newsletter for taking the efforts and I wish good luck to all.

**Editorial Committee**

**Editor in Chief**

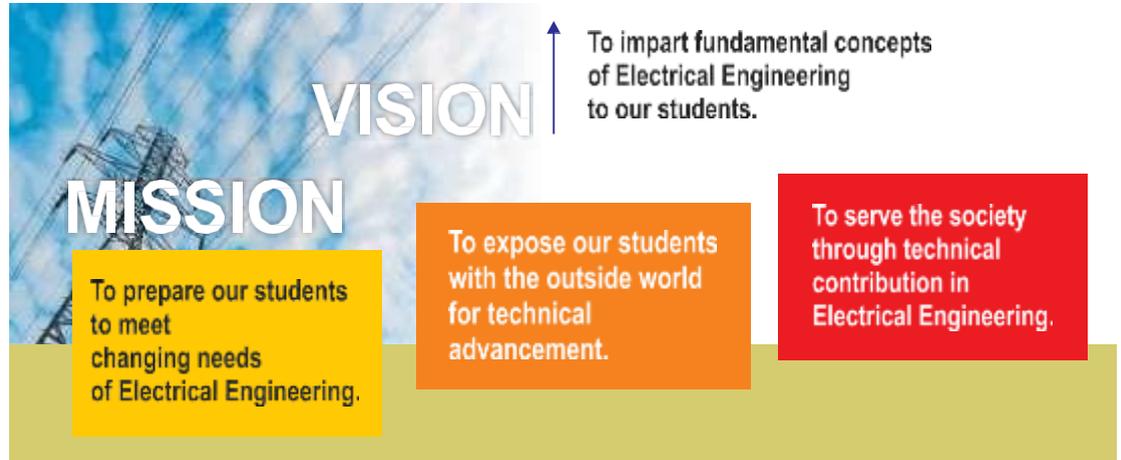
Mr. G. A. Bhosale (Vice Principal)

**Co-Ordinator**

Mrs. Nehal N. Sandye (Lecturer)

**Departmental Faculty Member**

Mr. S.S.Ghadigonkar (Lecturer)



**VISION** ↑ To impart fundamental concepts of Electrical Engineering to our students.

**MISSION**

- To prepare our students to meet changing needs of Electrical Engineering.
- To expose our students with the outside world for technical advancement.
- To serve the society through technical contribution in Electrical Engineering.

**Department of Electrical Engineering celebrated guru Pournima**



On 22 July 2024, Electrical Engineering Department of YBIT (Diploma wing) successfully arranged “Guru Pournima” for teachers.. The purpose of this program was **Guru** is deeply rooted in honoring and expressing gratitude to teachers, mentors, and spiritual guides

"A Guru is more than just a teacher. They are a guiding light, a source of wisdom and knowledge, and a source of inspiration on our life's journey."

For this program vice principal of yashwantrao Bhosale institute of technology sawantwadi Mr. G .A Bhosle sir and HOD of all the departments are invited. Our second year and 3rd year student give speeches on why gurus are important in our life and also vice principal sir and all the faculties shares important thoughts on this occasion of Guru Purnima..The atmosphere was vibrant, with students working collaboratively and creatively.

**HOD'S DESK**



**Mr. D.D.Patil**  
HOD,  
Electrical Dept.

I am delighted to extend my warmest congratulations to everyone associated with the Electrical Department on the successful publication of the latest edition of the “Jyotirgamaya” newsletter. The Jyotirgamaya newsletter is an excellent platform for showcasing the outstanding achievements, innovative research, and noteworthy activities of our department's faculty members, students. This year has been a challenging one for all of us. However, the determination, resilience, and hard work displayed by our team have been truly commendable. I would like to take this opportunity to congratulate the editorial team for their outstanding efforts in bringing this newsletter to fruition. Let us continue to work together to achieve our goals and objectives

## Electrical department organize cultural celebration on mahatma Gandhi jayanti



Electrical Engineering Department of YBIT (Diploma wing) successfully arranged Expert Lecture on “Mahatma Gandhi Jayanti program and Rangoli Competition” for Second Year and Third Year Electrical Engineering Students. The purpose of this competition was to give opportunity to students to do cultural activity other than academics. Civil engineering diploma wing HOD Mr. P.P Sawant sir ,and electrical department HOD Mr. D.D PATIL Sir, Mechatronics department HOD Mr. S.S LANJEKAR Sir,computer department HOD Mr. P.D KATE Sir F.Y HOD Mr. A.G PRABHU Sir and other electrical department staff .Rangoli Competition Following the inaugural ceremony, the Rangoli competition began, themed "स्वच्छ भारत सुंदर भारत." Students from second year and third year electrical departments participated, showcasing their artistic skills using colored powders and flowers. 21 groups take part in competition. The atmosphere was vibrant, with students working collaboratively and creatively. The event concluded with a vote of thanks, acknowledging the efforts of participants, judges, and organizing members (EESA members). The successful program fostered a sense of community and highlighted the significance of Gandhi's teachings. faculties from Department of Electrical Engineering and very much thankful to our Principal, Dr. R.R.Bane, Vice Principal Mr. G.A.Bhosale and HOD Mr. D.D.Patil for their continuous support.

### Electrical Toppers



Pratik Zarpkar  
(90.00)



Atharwa Parab  
(88.40)



Sayali Giri  
(85.60)



Paras Mestry  
(82.12)



Namita Morajkar  
(80.35)



Padmanabh Sawant  
(77.29)

## Guest lecture on basic trend in electrical engineering



Electrical Engineering Department of YBIT (Diploma wing) successfully arranged Expert Lecture on “Recent Trend In Electrical Power System” for Second Year and Third Year Electrical Engineering Students. The purpose of Expert lecture was to give opportunity to students to connect with experts. Mr. Kapil Kanade, Assistant engineer, M.S.E.D.C.L, was Resource Person with 05 years of utility field experience and 3.5 years M.E.P design Experience in industrial field. Mr. D.D.Patil, HOD of Electrical Department welcomed the expert by offering bouquet. Mr.S.S. Ghadigaonkar, Lecturer from Electrical Department welcomed Mr. D.D.Patil, Head of the Electrical Engineering Department (Diploma Wing). Then kanade sir started the session. During the concluding session, again Ms. S.N.Hewalekar madam, Lecturer in Electrical Engineering Department explained the intention and need of organizing the expert lecture on Recent Trends in Electrical Power System and program was concluded by giving vote of thanks by her. We the faculties from Department of Electrical Engineering very much thankful to our Principal, Dr. R.R.Bane, Vice Principal Mr. G.A.Bhosale and HOD Mr. D.D.Patil for their continuous support.

## Guest lecture on recent trend on power engineering

On Electrical Engineering Department of YBIT (Diploma wing) successfully arranged Expert Lecture on “Basic Terminology in Electrical Engineering” for Second Year and Third Year Electrical Engineering Students. The purpose of Expert lecture was to give opportunity to students to connect with experts. Mr. S.P. Acharekar, Assistant Professor, Electrical Engineering, YBIT (Degree Wing) was Resource Person with 13 years Academic Experience as well as good Industrial Experience. Ms. Mr. D.D.Patil, HOD of Electrical Department welcomed the expert by offering bouquet. Mr.S.S. Ghadigaonkar, Lecturer from Electrical Department welcomed Mr. D.D.Patil, Head of the Electrical Engineering Department.

## Electrical Department successfully organized parents meeting



Electrical Department successfully arranged Parents Meet for Second Year and third year Students. The purpose of Parents meet was to improve the coordination between teachers and parents for improvement in each students Academic Performance, attendance of students, how effectively mentorship is adopted, Training and placement information etc. Ms.S.N.Hewalekar explained the overall information about the training and placement cell. After that the parent representative, Principal Sir and HOD were felicitated.

Hon.Vice Principal Mr.G.A.Bhosale sir addressed the student and gave important message regarding the curriculum and encourage students for participating in activities and also advised students to focus on academics .Then Electrical Department HOD Mr. D.D. Patil sir informed the parents about all the activities of the department in this semester, exam schedule, students progress, discipline of college. Also Parent representative Mrs.Uma Zarpkar madam expressed her views in the parent meeting.After that, the dignitaries felicitated the toppers of First year Electrical. For meeting. This parents meeting was successfully arranged by the SY Electrical class teacher Mr.S.N.Nirmalkar.The faculty members of the Electrical Departments such as H.A.Pawar, Ms. S.N.Hewalekar ,S.S.Ghadigaonkar and Ms. N.N.Rawool were also present. Ms T.R. Shenai delivered the vote of thanks.

## Electrical Department organized Guest lecture on essence of indian constitution



On 10 october 2024 Electrical Department of Yashwantrao Bhonsale Institute of Technology, Sawantwadi has successfully conducted a expert lecture on “Essence of Indian Constitution” 9th October 2024 Mr. Shridhar Patil , Tahsildar Sawantwadi. He has total 5 years” experience.

Mr. D.D Patil (HOD) welcomed guest speaker and further session was carried out by Mr. Shridhar Patil Sir has started this session with Meaning of the constitution of India, Salient feature and characteristics of constitution of India, Fundamental rights under Part III, Voter guides, Voter awareness and Voter online Registration.

## Expert lecture on investor awerness program at YBIT



On 17 october 2024 Electrical Engineering Department of YBIT (Diploma wing) successfully arranged Expert Lecture on “Investor awareness program” for Second Year and Third Year Electrical Engineering Students. The purpose of this program was to give knowledge to students about investment and share markets. Mr. D.D.Patil, HOD of Electrical Department welcomed the expert by offering bouquet. Mr.H.A.Pawar sir, Lecturer from Electrical Department welcomed Mr. D.D.Patil, Head of the Electrical Engineering Department (Diploma Wing).Guest Mr. Jambhalikar Sir and jadhav sir explained the importance of investment ,the money growth and the investment security provided by the SEBI.

## Electrical Department organized Industrial visit at 33/11 kv, kolgaon substation



On 4th October 2024, Department of Electrical Engineering organized Industrial Visit 33/11 KV Kolgaon Substation. This visit was arranged under the 3rd year curriculum of Electrical Engineering for subject “Energy Conservation and Switchgear Protection”. As per I scheme syllabus the information related to various insulators, isolators, busbar, Transformer used in Electrical Power System, application of these equipment in Electrical Substations, industries etc., observe the Pole mounted Substation and Plinth mounted Substation. Also, students were observed construction of transformer, circuit breakers. Students were learned about energy audit. Students were mentored and guided by Mr. Khobragade and Mr. Kohale Sir and other staff members on various aspects of the Substation. Students asked many questions regarding different types of components. The entire visit is successfully organized by faculty member Mr. D. D.Patil, Ms. S. N. Hewalekar, Mr. S.N.Nirmalkar

Student observed the various components of Substation and understands working of every equipment of the substation. The overall industrial visit was very informative and interactive. This visit is very much helpful for their micro project work. This data and relative information is additional knowledge for our student.

## Industrial visit at tilari power station



This visit was arranged under the 2nd year curriculum of Electrical Engineering for subject “Generation Transmission and Distribution and Electric Motors and Transformer”. As per I scheme syllabus the information related to The Generation of Electrical Energy, The Construction and Working of Generator and Alternator, The Construction and Working Step – Up Transformer, The Working of actual Generating Sub Station and LT Panels,

Students were mentored and guided by Mr. Borate Sir, Mr. Unawake Sir and other staff members on various aspects of the industry. Also Departmental staffs like Ms.T.R..Shenai and Mr. S.S Ghadigaonkar were also present. Student observed the The Generation of Electrical Energy, The Construction and Working of Generator and Alternator, The Construction and Working Step –Up Transformer, The Working of actual Generating Sub Station and LT Panels, This visit is very much helpful for their micro project work. This data and relative information is additional knowledge for our student. For this industrial visit Third semester Electrical students

# Student Corner

## “ROOF MOUNTED SEA WATER DISTILLATION PLANT”

A roof-mounted seawater distillation plant is a compact and innovative system designed to convert seawater into fresh, potable water. It is typically installed on rooftops, leveraging solar energy to power the distillation process. Roof-mounted seawater distillation plants offer a promising solution for addressing water scarcity in coastal regions, providing a reliable and sustainable source of fresh water for residential, commercial, and industrial applications. Fresh water constitutes one of the most important resources in domestic as well as industrial activities. Globally, the concurrent growth in population and industrial development has led to a drastic increase in the demand for fresh water. Unfortunately, there is a limit to the availability of fresh water on earth. A recent statistic has revealed that 97.5% of the available water on earth is saline water. This means only about 2.5% of the water on earth is suitable for direct uses. Furthermore, out of the 2.5% which constitute fresh water, 1.71% of it is in the form of ice and glaciers. Yet, the demand for clean water is increasing due to the rapid increase in urbanization, and in economic and industrial development. Water treatment companies are therefore turning to seawater as the major source from which freshwater is produced. Roof-mounted seawater distillation plants are compact systems designed to produce fresh water from seawater. They are typically employed in areas with limited access to freshwater sources, such as coastal regions and islands. These plants leverage solar energy to heat seawater, causing it to evaporate. The resulting vapour is then condensed to produce fresh water. Roof-mounted seawater distillation plants offer a promising solution for freshwater production in coastal areas. While challenges exist, advancements in technology and materials are continually improving their efficiency and reliability. By carefully considering factors like location, water demand, and environmental impact, these systems can play a vital role in sustainable water management



Mr. Pratik Zarapkar(TYEE)