

## 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 overall 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.

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## Editorial Committee

### Editor in Chief

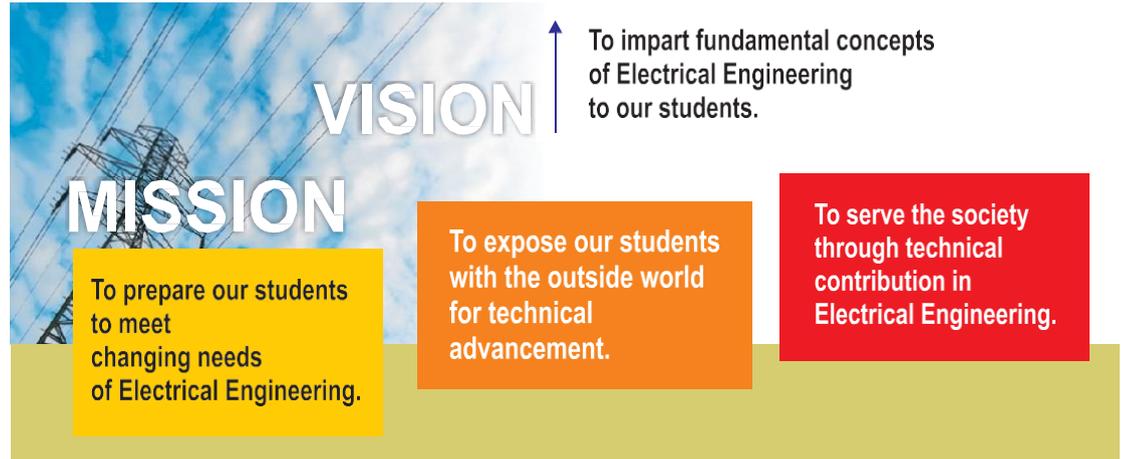
Mr. G. A. Bhosale (Vice Principal)

### Co-Ordinator

Mrs. Nehal N. Sandye (Lecturer)

### Departmental Faculty Member

Miss. T.R.Shenai (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 organized an expert lecture on PLC, SCADA & Role of Engineers in Industrial Automation.



On 9th January 2024, Department of Electrical Engineering organized an expert lecture on PLC, SCADA and Role of Engineers in Industrial Automation for students from Electrical Engineering, Mechanical Engineering and Mechatronics Engineering.

Mr. Vivek Vishnu Sardal, Regional Manager from Prolific System Tech Pvt.Ltd,Pune was the resource person of today's session. Prolific company is leading company in Automation sector and more than 350 tie-ups for placement. Prolific company is providing turn key Automation solution also conducts training in Automation, Electrical Embedded System.For above said session, Mr. D.D. Patil, HOD Electrical Engineering, Mr. M.R.Desai,TPO Head, Mr. A.J.Rane, HOD Mechanical Department and faculties from EE, ME MK Department were present. Anchoring was done by Ms. S N. Hewalekar. Whole session was successfully organised by faculties from Electrical Department.

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## 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

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## Three days faculty development program on National Education Policy 2020



Yashwantrao Bhonsale Institute delegates, resource faculties of Technology, Sawantwadi and participants. The Co- (Diploma Wing) Successfully ordinator had briefed about the completed ISTE sponsored self- FDP. He explained various financed three days faculty objectives of the program. Mr. development program on Gajanan A. Bhosale Vice- **National Education Policy 2020** Principal had given brief **challenges and opportunities** outline of program and between 28/12/2023 to requested to all participants to 30/12/2023. Hon. Sanjeev Desai enrich their knowledge from sir, secretary , S Y B E S this FDP and inculcate among Sawantwadi was the Chief Guest, the students.

Hon. Raman R. Bane, Principal of Hon. Sanjeev Desai sir, Chief YBIT, Sawantwadi and Hon. Guest of program had Gajanan A. Bhosale, Vice- congratulated and gives best Principal of YBIT, Sawantwadi wishes to all Departments was the Guest of honor of organizing such a program program of the inaugural function which indirectly benefits to of the ISTE sponsored Self- society.

financed three days online FDP For the valedictory ceremony, on National Educational Policy Guest of honour Hon. Mrs. 2020 challenges opportunities Sunetra Phatak madam and Mr. Deepak D. Patil, Program (Administrative Coordinator Convenor and Mr. Prasad P. of SYBES) was present, Vice- Sawant, Program Coordinator, Principal, Mr. G. A. Bhosale sir was present in ceremony. All the also guided the audience and participants along with invited congratulated the organising Resource Faculties and guest team for the successful were also present during the Completion of same program. inauguration of FDP. As per the For this FDP, YBIT got a great Indian tradition, the FDP was r e s p o n s e f r o m v a r i o u s inaugurated with lighting of the engineering and polytechnic lamp and Saraswati Vandana. c o l l e g e s ( T o t a l 1 2 7 Mr. Deepak D. Patil, Head of p a r t i c i p a n t s ) f r o m Electrical Engineering and Maharashtra. In the valedictory Convenor had welcomed the all function participants as well as

## Industrial visit to RYB Electrical, Shirol MIDC, Kolhapur



On date 20 January 2024, students from second year Electrical Engineering went for Industrial Visit to RYB Electrical, Shirol MIDC, Kolhapur. Students observed various manufacturing activities, Panel manufacturing, to observe HT and LT Termination and Panel Erection, Internal and External Wiring, Various type of Panel Wiring Machine Starter panel during the entire visit. -Iso, Student experiential the manufacturing activities, Panel manufacturing, HT and LT Termination and Panel Erection, Internal and External Wiring, Various type of Panel Wiring AC Machine Starter panel in the industry. Students were mentored and guided by Mr. Phalle Sir and other staff members on various aspects of the industry. This visit was very much helpful for their academics as well as doing micro project work. This data and relative information are additional knowledge for our students. For this visit all students from SY EE were present. The entire visit was successfully organized and conducted by faculty members Mr. S.N.Nirmalkar, Mr. S.S.Ghadigaonkar.

## Industrial visit to Power Engineers, Kolhapur



On 20th January 2024, Department of Electrical Engineering from Yashwantrao Bhonsale Polytechnic, Sawantwadi organized visit to Power Engineering. Mr. Aamle sir, Head of Quality Control of Power Engineering was the resource person. Aamle sir has more than 20 years' experience in quality control as well as good Industrial experience in production. The industry welcomed our students with joy enthusiasm; every floor employee was willing to contribute in students' knowledge gaining session.

The session was started smoothly. At the starting sir has started with basics in transformer design and then focused on modern techniques used in it. During the session, resource person gave real life examples based on transformer testing. He also focused on different types of transformer types and difference between them and discussed recent advancements in transformer core. Throughout the session, students raised some queries and successfully cleared by Mr. Aamle sir.

Whole session was informative and interactive. The program was concluded by vote of thanks towards resource person. The overall visit was successfully organized and conducted by Mr. D D Patil, Mr. H A Pawar, Mr. S SGhadigaonkar Ms. N N Rawool.

We, the faculties from Electrical Department of Yashwantrao Bhonsale Institute of Technology, Sawantwadi are thankful to our Principal, Dr. Raman Bane, Vice Principal Mr. G. A. Bhosale, Head of the department Mr. D.D. Patil for continuous guidance for successful organization of Industrial visit.

## SUMMER 2023 RESULT : TOPPERS



## Electrical Department successfully organized MSBTE sponsored State Level Technical Paper Presentation.



On 30th January 2024, The Mrs. Sunetra Fatak madam Department of Electrical gave wishes to all participants Engineering organized for the competition. Total 10 MSBTE sponsored State Level groups participated in this Technical Paper Presentation competition from various Competition for Mumbai Institutes in Mumbai Region. The inauguration For this competition Mr. Onkar ceremony was graced by the Marathe, Assistant Professor, presence of Mrs. Sunetra Mr. Dipak Khobragde, Fatak, Administrative co- Assistant Engineer, MSEDCL ordinator, Dr. Raman Mr. S.N.Hewalekar, Lecturer Bane, Principal YBIT, Jury invited as a Jury members. The members Mr. Dipak first prize of this competition Khobragde, Assistant was awarded to Mr. Engineer(MSEDCL, Sawantw Prathamesh Satam Mr. Lalitya adi), Mr. Onkar Marathe Salgaonkar from GPM, The ,Assistant Professor ,SSPM<sup>2</sup> second prize of this college of Engineering, Ms. competition was awarded to S.N.Hewalekar, Lecturer, EE Ms. Pooja Lambar Mr. Sanket Department, Mr. Satyajit Sutar from YBIT and Sathe, Principal, Yashwantrao consolation prize was awarded Bhonsale college of D- to Mr. Yash Rathod Mr. Vedant pharmacy. For this event Mr. Raipure from Pravin Patil P.P.Sawant(HOD CE), Mr. college Diploma Engg A.J.Rane(HOD ME) and all the Technology, Mumbai. faculty members from EE The anchoring of whole department were present. Mr. program is done by Ms. D. D. Patil, Program co- T.R. Shenai, Program co- ordinator gave brief coordinator. -ll the faculty description of competition. members of Electrical Dr. Raman Bane, Principal, Department took sincere Yashwantrao Bhonsale Institute efforts for the successful of Technology guided all conduction of program under participants for the the guidance of Program chief - competition. On this occasion coordinator Mr. G.A.Bhosale administrative co-ordinator, sir.

### Faculties from Electrical Engineering Department attended FDP

Ms. T.R. Shenai Ms. S.N.Hewalekar, faculties from Electrical Department attended One week FDP on Electrical Vehicles organised by Sanjay Bhokare Group of Institutes, Miraj on 15th January to 20th January 2024 by online Mode. More than 50 faculties from various Institutes attended this Faculty Development Program by online mode.



## Electrical Department organized guest Lecture on Role of AI in Electrical Engineering

Electrical Department of Yashwantrao Bhonsale Institute of Technology, Sawantwadi has successfully conducted an expert lecture on Role of AI in Electrical Engineering. Dr.G.A.Rathy madam has more than 25 year experiences in career education. After having worked in various MNCs for about 14+ years in various roles of Training, Technical Support, After sales service management, Operations management Product Quality Management. She decided to use her experience to help newer generations pursuing engineering build a solid foundation for making solid start to career in the 21st century. Speaker guided our students on various topic like importance of AI in electrical engineering and need of AI, machine learning process in different sectors, opportunities after diploma AI sectors, AI in robotics and automation, Role of AI in home automation and application of AI in electrical industry. The overall session was very informative and interactive. Many students asked their doubts, queries regarding this session and madam have cleared everyone's queries. All third-year students of Electrical Engineering have attended this session. We, the faculties from Electrical Department of Yashwantrao Bhonsale Institute of Technology, Sawantwadi are thankful to our Hon. Vice Principal G. A. Bhosale sir, Head of the Department, Mr. D. D. Patil for continuous guidance for successful conduction of this event. The feedback responses of the students related to the event were recorded and analysed. This was a very much beneficial program for all the participants from Electrical Department of Yashwantrao Bhonsale Institute of Technology, Sawantwadi.

# Student corner

## Smart Grid



Ms. Pooja Lambar

The global energy sector is undergoing a shift, driven by the demand for cleaner energy and improved efficiency. According to the International Energy Agency (IEA), by 2050, renewable energy is expected to account for nearly 80% of the global electricity supply. This growing reliance on variable energy sources like solar and wind creates challenges in balancing supply and demand. Here's why smart grids are so vital:

- **Enhanced Integration of Renewables:** Smart grids allow for the seamless integration of intermittent renewable energy sources like solar and wind. They use forecasting models to anticipate fluctuations in energy production and adjust accordingly.
- **Increased Energy Efficiency:** By enabling real-time monitoring and automation, smart grids help reduce energy waste. The ability to track energy use and identify inefficiencies in the grid allows both utilities and consumers to optimize energy consumption.
- **Demand Response and Load Management:** Smart grids allow utilities to implement demand-response programs, where consumers can adjust their electricity usage during peak times for financial incentives. This helps balance the load on the grid and reduces the need for costly peaking power plants.
- **Carbon Emission Reduction:** As more clean energy is integrated into the grid, and efficiency is optimized, smart grids help in significantly reducing CO<sub>2</sub> emissions. The World Bank estimates that implementing smart grid technologies could cut emissions by up to 2-3% annually worldwide.