Vision of Sandip Polytechnic: "To produce skilled technocrats for serving industry, society and pursue higher education."

Mission of Sandip Polytechnic:

M1: State of the art infrastructure, qualified and competent teaching faculty.
M2: To provide industry institute interaction, employability enhancement and higher education.
M3: To provide platform for development professional, social skill and life long learning.

Departmental Vision:

"To develop professionally skilled electrical engineers to fulfill the needs of industry and society at large."

Departmental Mission:

M1: To offer quality technical education through student's centric teaching learning methods to enhance technical knowledge, skills and positive attitude.

M2: To provide a learning center for entrepreneurship, employability and higher education.

M3: To develop interpersonal skills for professional growth.

Editorial Board Members

1.Prof.V.S.Patil

2. Prof. N.B.Ranotkar

Leading Polytechnic College s in Nashik

When you join Sandip Polytechnic (SP) at Sandip Foundation, you are joining one of the top polytechnic colleges in Maharashtra and indeed the best polytechnic college in Nashik. If you want to fast track your career and fast track yourself to success then there's just one and only one place. And that's Sandip Polytechnic. Our motivation to help you become 'insanely' great at what you do, achieve your imagination.

INDUSTRIAL VISIT & GUEST LECTURES

Name of Event: Expert Lecture on**"Applications of IOT"**.

Date of Event: 05.02.2024

Resource Person: Mr. Ullhas Mahajan.

Objectives:
Students should know about the role of IoT in real life.
Outcomes:
Students should understand different applications of IoT.
Students should know different wireless technologies.
Students should know the role of Iot in industrial revolution.
Students should know the job opportunities in IoT.

Name of Event: Expert Lecture on**"Awareness of Drone Application".**

Date of Event: 07.03.2024
Resource Person: **Dr. Nikhil Baravkar.**

Objectives:
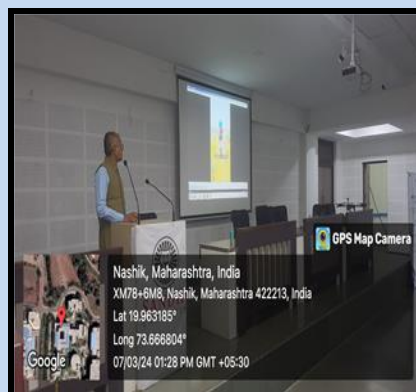Its main objective is to understand Drone technology and its applications.

Outcomes:
Students should understand the working of Drone.
Students should know the working aspect of Drone.
Students should familiarize with Drone Applications.
4Students should know the future of Drone Technology.

Name of Event: Industrial visit At "Ashoka Biogreen,Nashik".

Date of Event: 13/03/2024

Objectives: To make the student understand the sustainable production of renewable energy from the biogas obtained of agricultural residues and food and beverage industry waste.

Outcomes:

Student understood the benefits of biogas plants which are environment-related, as they produce renewable energy for domestic and industrial use.
Student understood how energy can be stored or injected into the electricity grid to reduce dependence on fossil-fuel energy, which can help reduce our carbon footprint.

Department Of Electrical Engineering

State Level Tech-Fest 2K24
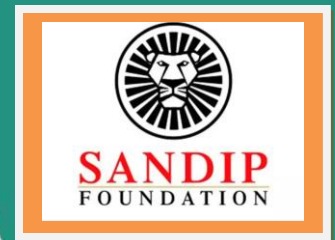
Name of Event: Project Competition

Date of Event: 16/03/2024

Objectives:
To create a group of young minds with talent.
To lend hands to beginners and lead them to the world of knowledge.
To guide on specific areas of quizzing and encourage to participate in out of the box competitions.

Participants: TYEE

Name of Event: Poster Competitions.

Date of Event: 16/03/2024

Objectives:
To showcase how technological and societal development will be embraced (and will transform) in college.
Technical fests are ways of exploring spectacular ideas that are displayed from students

Participants: TYEE and SYEE Students.

Name of Event: Paper Presentation.

Date of Event: 16/03/2024

Objectives:
Encouragediploma students to demonstrate their research, analytical, and communication skills through a competition. The objective is to foster academic excellence, promote critical thinking, and recognize outstanding scholarly work within the diploma student community.

Participants: TYEE and SYEE Students.

Department Of Electrical Engineering

OUR TOPPER'S

WINTER - 2023 EXAM
THIRD YEAR

CONGRATULATIONS!!!!

Rank	Name of Students	Percentage	Photo
1	PRINCE KUMAR	91.10%	
2	LIBIN MOHAN VARGHESE	89.00%	
3	GANGURDE SWAPANALI RAVINDRA	88.70%	

WINTER - 2023 EXAM
SECOND YEAR

CONGRATULATIONS!!!!

Rank	Name of Students	Percentage	Photo
1	RUTUJA DADABHAU GANGURDE	83.5%	
2	ADKE PRIYA DNYANESHWAR	82.75%	
3	GAIKWAD SHRUTIKA BANDU	80.38%	

Department Of Electrical Engineering

Advancements in Artificial Intelligence in the Electrical Engineering Field: An Indian Perspective

India, known for its vibrant technological landscape, has been making significant strides in the field of artificial intelligence (AI), particularly within the realm of electrical engineering. With a burgeoning demand for efficient energy management, enhanced automation, and intelligent systems, AI has emerged as a transformative force reshaping the landscape of electrical engineering in India.

One of the key areas witnessing rapid innovation is smart grid technology. With the aim of optimizing energy distribution and consumption, Indian researchers and engineers are leveraging AI algorithms to develop sophisticated smart grid systems. These systems employ machine learning algorithms to predict energy demand, identify potential faults, and dynamically reroute power to prevent outages, thus ensuring reliable and uninterrupted power supply across the country.

Moreover, AI-powered predictive maintenance solutions are revolutionizing the maintenance practices in the electrical engineering sector. By analyzing vast amounts of sensor data from equipment and infrastructure, AI algorithms can forecast equipment failures before they occur, enabling proactive maintenance and minimizing downtime. This approach not only enhances operational efficiency but also reduces maintenance costs significantly.

In addition to power systems, AI is also revolutionizing the design and optimization of electronic devices and circuits. Indian researchers are leveraging AI techniques, such as genetic algorithms and neural networks, to automate the design process, thereby accelerating the development of high-performance electronic systems. These AI-driven design methodologies have the potential to revolutionize product development cycles and enhance the competitiveness of Indian electronic industries in the global market.
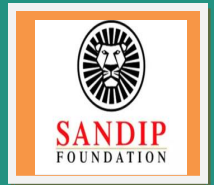
Furthermore, AI-enabled automation is transforming manufacturing processes in the electrical engineering sector. From robotic assembly lines to autonomous quality control systems, AI-powered automation is streamlining production processes, improving product quality, and reducing labor costs. Indian manufacturers are increasingly adopting AI-driven automation solutions to stay competitive in the global market and meet the growing demand for high-quality electrical products.

However, as India continues to embrace AI in the electrical engineering field, it also faces several challenges, including the need for skilled AI talent, data privacy concerns, and ethical considerations. Addressing these challenges will be crucial to unlocking the full potential of AI and ensuring its responsible and ethical deployment in the electrical engineering sector.

In conclusion, AI is poised to revolutionize the electrical engineering field in India, driving innovation, efficiency, and sustainability. By harnessing the power of AI, Indian engineers and researchers have the opportunity to address pressing challenges in energy management, infrastructure maintenance, and manufacturing, thereby contributing to the nation's socio-economic development and global competitiveness.

Saurabh Deshmukh
Student TYEE
Department of Electrical Engineering