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Bhujbal Knowledge City

Institute of Technology, Polytechnic, Nashik

Approved by AICTE, DTE Mumbai & Affiliated to MSBTE

Inside:

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AY : 2023-2024

E-News Letter of Department of Electrical Engineering

Vision Statement Department of Electrical Engineering

To develop technically skilled diploma Electrical Engineers to serve industry and society.

Mission Statement Department of Electrical Engineering

M1: To implement an effective teaching and learning process to develop skilled electrical engineers.

M2: To provide technical knowledge in order to meet the industry and societal needs.

M3: To develop social responsibility among students.

Programme Educational Outcomes (PEOs) given by MSBTE

PEO1.Provide socially responsible, environment friendly solutions to Electrical engineering related broad-based problems adapting professional ethics.

PEO2. Adapt state-of-the-art Electrical engineering broad-based technologies to work in multi-disciplinary Work environments.

PEO3. Solve broad-based problems individually and as a team member communicating effectively in the World of work.

Programme Specific Outcomes (PSOs) given by MSBTE

PSO 1. Electrical Equipment: Maintain various types of rotating and static electrical equipment.

PSO 2. Electric Power Systems: Maintain different types of electrical power systems.

INDUSTRIAL VISITS

Sr. No	Industry Name	Date/Day	Semester	No. of Beneficiary	Location	Name of Director/ Plant head	Subject	CO	PO	PSO
1	Sewage water Treatment plant	24/02/2024 Saturday	SYEE(IV)	31	Tapovan, Nashik	Mr. Krunal Sir	Environment		6	-
2	Maharastra state Electricity Transmission CO.LTD.	23/02/2024 Friday	TYEE(VI)	29	Adgaon, Nashik	----------	Electrical Substation & Practices		4	1
3	Hydro Power Plant	16/02/2024 Friday	SYEE(IV)	47	Ghatghar Thane	Mr.P.B.Kashiv.sir	Electrical Power Generation		4	2
4	Sivananda Electronics	13/10/2023 Friday	SYEE(III)	49	Deolali, Nashik	Mr.Nimbalkar.B.L.sir	Electrical Power & Electronics		4	-
5	Popular Switchgear PVT LTD	13/10/2023 Friday	TYEE(V)	35	Gonde, Nashik	Mr.Ramesh Bhrambhatt	Switchgear & Protection		4	1
6	Thermal Power Plant	12/10/2023 Thrusday	SYEE(III)	59	Eklahare, Nashik	Mr.Manoj Chavan Sir	Electrical Power Generation		4	2

	Industrial Visit At Hydro Power Plant
Date and Time	16/02/2024, Friday , 6.00am Onwards
Company Name	Hydro Power plant, Ghatghar, Thane
Objective	1) To bridge the widening gap between theoretical learning and practical exposure. 2) To familiarize students with the work environment, culture, and ethics prevalent in the industry. 3) The services provided by company.
Number of Students Present	SYEE - 47
Proofs of conduction	1. Attendance 2. Photos
Name of Organizers	Mr. S. U. Borade, Mr. S.R. Ghuge, Mr. S.S. More, Mr. N.D.Sonawane




	Industrial Visit At Thermal Power Plant
Date and Time	12/10/2023, Thrusday, 10.00 am Onwards
Company Name	Thermal Power Plant, Eklahare, Nashik
Objective	1) To bridge the widening gap between theoretical learning and practical exposure. 2) To familiarize students with the work environment, culture, and ethics prevalent in the industry. 3) The services provided by company.
Number of Students Present	SYEE - 59
Proofs of conduction	1. Attendance 2. Photos
Name of Organizers	Mr. S. U. Borade, Mr. S.R. Ghuge , Mr. S.S. More, Mr. N.D.Sonawane

GUEST LECTURE

Sr. No.	Name of Guest	Topic	No. Of students	Date Day Time	PO	PSO	CO
1	Mrs. Radhika Borse	Electrical Vehicles	SYEE :68 TYEE:48	13/03/2024 10:00 am		PSO1	
2	Bhavsar Ratankumar	Personality Development and Goal Setting	SYEE :68 TYEE:48	09/02/2024 12:30pm		------	
3	Smit Sachin Oswal	Entrepreneurship Development with AI	SYEE :68 TYEE:48	22/03/2024		------	
4	Pankaj wagh	Career opportunities in Germany	SYEE :68 TYEE:48	06/01/2024		------	
6	Prof. V.M. Sawant	Personality Development	SYEE :68 TYEE:48	16/10/2023		------	
7	Mr. Shriram Gajanan Pande	Emerging trends in power system	SYEE :68 TYEE:48	12/04/2023		PSO2	
8	Mr. Gawade sanjay Purushottam	Electrical energy conservation and Audit	SYEE :68 TYEE:48	04/10/2023		PSO2	
9	Mr. Akshay Gangurde	Renewable Energy	SYEE :68 TYEE:48	03/10/2023		PSO2	

	Guest Lecture on Electric Vehicles
Date and Time	13/03/2024, Wenesday, 10.00am Onwards
Resource Person	Mrs. Radhika Borse
Topic	Electrical Vehicles
Number of Students Present	SYEE :68 , TYEE:48
Proofs of conduction	1. Attendance 2. Photos
Name of Organizers	Mr. S.R. Ghuge , Mr. S.S. More, Mr. N.D.Sonawane

WORKSHOP

Workshop
AY- 2023 - 2024

Sr. No	Industry Name	Date	Semester	No. of Beneficiary	Location	Name of Person Plant head	Subject	CO	PO	PSO
1	TNS India Foundation	25/09/2023 to 09/10/2023 (02 weeks)	TYEE(V)	6	MET BKC IOT-POLY	Mr.Vaibhav Kulkarni & Ms.Priyanka Singh	EDP			
2	Autotech Nashik	07/03/2024 to 09/04/2024 (02 day)	SYEE(IV)	57	MET BKC IOT-POLY	Mr. Prasad Sonawane	Electrical Drawing & CAD	1,2,3 ,4,5	1,3	1,2
3	Autotech Nashik	17/03/2024 (01 day)	SYEE(IV)	41	MET BKC IOT-POLY	Mr. Prasad Sonawane	Digital Electronics and Microcontroller	3,4,5	1,4	1

	Electrical Drawing and AUTOCAD Workshop
Date and Time	07/03/2024 and 09/03/2024
Company Name	Autotech,Nashik
Objective	1) To bridge the widening gap between theoretical learning and practical exposure. 2) To familiarize students with the knowledge of Electrical design. 3)To better understanding of design parameters and electrical schematics/product design
Number of Students Present	SYEE - 57
Proofs of conduction	1. Attendance 2. Photos
Name of Organizers	Mrs.R.R.Raskar,Mr.C.P.Patil

PARENT MEET –TYEE and SYEE

Parents –Teacher meet held on th March 2023 from 10.00am onwards. The Agenda of meeting was student progress reports, upcoming events, assignments, behaviour concerns, and other pertinent information.

TEACHER DAY & ENGINIEERS DAY

Teacher's Day is a special occasion celebrated worldwide to honor and appreciate the invaluable Contributions of teachers to society. Teacher's Day is an opportunity for students to express their gratitude and respect for their teachers, who play a pivotal role in shaping their futures and imparting knowledge, values, and skills.

Engineer’s Day is a day dedicated to recognizing and celebrating the significant contributions of engineers to society. Engineer’s Day is an opportunity to acknowledge the crucial role engineers play in technological advancements and economic progress. It serves as a reminder of the importance of engineering in improving the quality of life and addressing global challenges such as climate change, energy sustainability, and urbanization.

Student Article

Charging Station

As electric vehicles (EVs) become more popular and accessible, the demand for EV charging stations is rapidly increasing. Charging stations are essential infrastructure that supports the widespread adoption of electric vehicles by providing convenient, reliable, and efficient ways to recharge batteries. This article delves into the different types of EV charging stations, their benefits, challenges, and the future of this critical component of the EV ecosystem.

Understanding EV Charging Stations

EV charging stations, also known as EVSE (Electric Vehicle Supply Equipment). The three main types of EV charging stations are:

1. **Level 1 Charging Stations**: These use a standard household outlet (120 volts) and are the most basic type of charging. Level 1 chargers are typically used for home charging and provide a slow charging rate of around 2-5 miles of range per hour. They are best suited for overnight charging or for drivers who don't require a fast recharge.
2. **Level 2 Charging Stations**: Level 2 chargers require a 240-volt outlet, similar to what is used for large household appliances. These stations can be installed at homes, workplaces, and public locations. They offer a faster charging rate, typically around 10-60 miles of range per hour, depending on the vehicle and charger specifications.
3. **DC Fast Charging Stations**: Also known as Level 3 chargers or rapid chargers, these use direct current (DC) to provide very fast charging rates. DC fast chargers can deliver 60-100 miles of range in just 20-30 minutes. They are commonly found along highways and in high-traffic urban areas, providing quick top-ups for long-distance travelers and busy city drivers.

Benefits of EV Charging Stations

1. **Convenience**: The availability of charging stations makes owning and operating an electric vehicle more convenient. Drivers can recharge their vehicles at home, work.
2. **Environmental Benefits**: Widespread adoption of EVs and the supporting charging infrastructure contributes to reducing greenhouse gas emissions and dependence on fossil fuels.
3. **Economic Opportunities**: The growth of the EV charging station market creates new business opportunities, from manufacturing and installing charging equipment.

Challenges and Limitations

1. **Infrastructure Development**: Expanding the network of charging stations requires significant investment in infrastructure. Building new stations, especially fast chargers, can be costly and time-consuming due to regulatory hurdles, grid upgrades, and site selection challenges.
2. **Grid Capacity**: The increasing demand for electricity to charge EVs places additional strain on the power grid. Ensuring that the grid can handle the load, particularly during peak times, is essential for maintaining reliable service and avoiding blackouts.

Future of EV Charging Stations

The future of EV charging stations is bright, driven by technological advancements, supportive policies, and increasing consumer demand. Key trends and developments to watch include:

1. **Ultra-Fast Charging**: Research and development are focused on creating ultra-fast chargers that can provide hundreds of miles of range in just a few minutes. These advancements will make EVs even more convenient for long-distance travel and reduce downtime for drivers.
2. **Wireless Charging**: Wireless or inductive charging technology allows EVs to charge without physical connectors. This technology promises to make charging even more convenient, with the potential for automated and on-the-go charging solutions.
3. **Smart Charging**: Integrating charging stations with smart grid technology enables dynamic management of electricity demand, optimizing energy use and reducing strain on the grid.
4. **Expansion of Charging Networks**: Governments, businesses, and utilities are investing heavily in expanding the EV charging infrastructure. Public-private partnerships and innovative financing models are helping to accelerate the deployment of new charging stations.

Kharate Monali Balu

MET's Institute of Technology Polytechnic

DEPARTMENT OF ELECTRICAL ENGINEERING

Heartiest Congratulations

To all the Third and Second Year Toppers of MSBTE Summer-2024 Examination

Monali kharate

Rank 1

TYEE - 88.83 %

(Aggregate)

Mahendra Nimse

Rank 2

TYEE – 86.00 %

(Aggregate)

Kalpesh Paithankar

Rank 3

TYEE - 84.50%

(Aggregate)

Shravani Shinde

Rank 1

SYEE - 83.07%

Ishika Dapurkar

Rank 2

SYEE - 82.53%

Sai Somavanshi

Rank 3

SYEE - 81.87%

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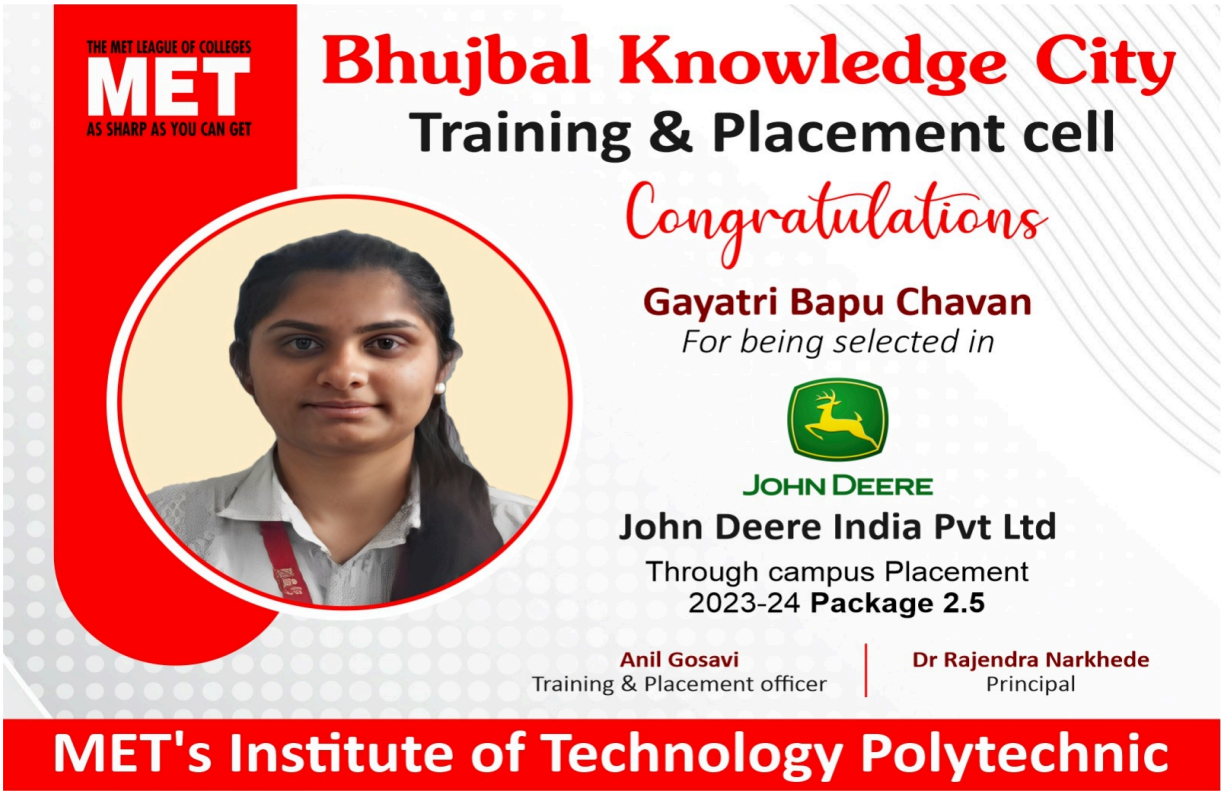
Result Analysis

THIRD YEAR ELECTRICAL ENGINEERING (SUMMER 2024)		
Rank	Name of Students	Percentage
1	KHARATE MONALI BALU	88.83%
2	NIMSE MAHENDRA APPA	86.00%
3	PAITHANKAR KALPESH DNYANESHWER	84.50%
THIRD YEAR ELECTRICAL ENGINEERING (SUMMER 2023)		
Rank	Name of Students	Percentage
1	BHANDARE KRUSHNA VIKAS	85.33%
2	ZADE UMESH SHRAVAN	83.38%
3	PATEL KRISHN PARESHBHAI	81.83%
THIRD YEAR ELECTRICAL ENGINEERING (SUMMER 2022)		
Rank	Name of Students	Percentage
1	GIRI SHREYASH	79.13%
2	CHAUDHARI YASH	78.00%
3	GANGURDE RAHUL	76.25%

SECOND YEAR ELECTRICAL ENGINEERING (SUMMER 2024)		
Rank	Name of Students	Percentage
1	SHINDE SHRAVANI SANDEEP	83.07%
2	ISHIKA BHARAT DAPURKAR	82.53%
3	SOMWANSHI SAI MANGESH	81.87%
SECOND YEAR ELECTRICAL ENGINEERING (SUMMER 2023)		
Rank	Name of Students	Percentage
1	KHARATE MONALI BALU	83.47%
2	ROY ROODRESH SUBRATA	70.93%
3	MOHAMMAD BILAL RASHIDEE	70.80%
SECOND YEAR ELECTRICAL ENGINEERING (SUMMER 2022)		
Rank	Name of Students	Percentage
1	BHANDARE KRUSHNA VIKAS	81%
2	PATEL KRISHNA PARESHBHAI	78%
3	ZADE UMESH SHRAVAN	77%

Students Achievements



Group Photo Academic Year(2023-2024)