

January- December 2024



GOKHALE EDUCATION SOCIETY'S
R H SAPAT COLLEGE OF ENGINEERING, MANAGEMENT STUDIES AND
RESEARCH, NASHIK-05



e-Newsletter

“The Quest for Excellence”

Department of Electrical Engineering



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“The Quest for Excellence”

e-Newsletter

VISION

To Serve as a Lead Centre for Value-based Learning & Innovation
in Electrical Engineering.

MISSION

- To create competent technocrats for industries through effective teaching-learning process and industry interaction.
- To create value embedded professionals ready to serve the society.
- To facilitate students & faculties for higher learning to empower them for Research & Development

Objective of “The Quest for Excellence”:

To provide state-of-the-art in electrical engineering department with latest happening, internship, Industry-institute interactions, project opportunities, research and development, placements, curricular and extra-curricular activities of all stake holders.

Departmental Activity Corner:

The various activity conducted by Electrical Engineering Department,

Industrial visit for second year to final year students in various company, Substation etc. with Objectives:

- To understand the working culture and environment of the industry and got familiar with various departments and practices in the industry.
- To Observe Operate various equipment, measuring instruments, tools used in industry efficiently and develop technical competence.
- To gain basic knowledge/Idea & Final Year Project Planning and hardware development.
- To learnt about ethical, safety measures, and legal practices.

EPSA committee of students organised various event Teachers Day, Engineers Day Project competition etc, Guest lecture/Expert Talk arranged for students,

*Industrial Visit Activity:

1] Third year students visit to Chandrapur-Padghe HvdC Link

The Industrial visit for third year students organised as part of co-curricular activity by subject in-charge Mrs S. G. Khadilkar and Mr. H. B. Wagh for subject Power system II. The Chandrapur– Padghe HVDC transmission system is an HVDC connection between Chandrapur and Padghe (near Mumbai) in the state of Maharashtra in India, which was put into service in 1999. It connects the coal-fired Chandrapur Super Thermal Power Station to the major load centre of Mumbai. The transmission voltage is ± 500 kV and the maximum transmission power is 1,500 megawatts. The project was built by ABB and BHEL, and is owned by Maharashtra State Electricity Board (MSEB).

- Visit Details: -
 - Address: Chandrapur- Padghe HVDC Transmission Link
 - Date of Visit : 23 Feb 2024
- Name of the staff accompanied:
 1. Mrs. S. G. Khadilkar
 2. Mr. H. B. Wagh
 3. Mr. D. M. Sonje
 4. Mr. H. V. Kulkarni

5. Mrs. S. H. Desai (TA)

6. Mr. J. G. Jagdale (TA)

Glimpses of Industrial Visit



Third Year Electrical Engg Div A & B Students and faculties at Padhge Substaion



Padghe Substation

2] Second year students visit to Koyna Engineers Pvt.Ltd

The Industrial visit for second year students organised as part of co-curricular activity by subject in-charge Dr. D. M. Sonje and Mrs. M. P. Deshpande for Electrical Machines -I.

Name of the Company:Koyna Engineers Pvt.Ltd.

Address:106, Street No 19, Satpur MIDC Rd, MIDC, Satpur Colony, Nashik, Maharashtra 422007.

Date of Visit: 29th February,2024.

Faculty Accompanying:

1. Dr. D. M. Sonje
2. Mrs. M. P. Deshpande.
3. Mr. S. P. Koparkar.
4. Mrs. J. N. Erande
5. Mr.Jagdale.

Glimpses of Industrial Visit





3] Third year students visit to Nashik Transformer

The Industrial visit for third year students organised as part of co-curricular activity by subject in-charge Dr. M. K. Chaudhari and Mr. S. V Chakor for Subject Computer aided Design of Electrical machine.

- Visit Details: -
 - Address: Nashik Transformer, MIDC, Satpur Nashik-422007
 - Date of Visit :08 Feb 2024
- Name of the staff accompanied:
 - 1) Dr. M. K. Chaudhari
 - 2) Mr. S. V. Chakor
 - 3) Mrs. R. S. Tidke
 - 4) Mrs. S. H. Desai (TA)



4] Final year students visit to Sakal Press, Nashik

The Industrial visit for final year students organised as part of co-curricular activity by subject in-charge Mr. S. K. Mahajan and Mr. M. V. Reddy for subject Advance Electrical Drives and Control.

- Visit Details: -
 - Address: Sakal Press, Satpur, Nashik- 422007
 - Date of Visit :27th Feb 2024
- Name of the staff accompanied:

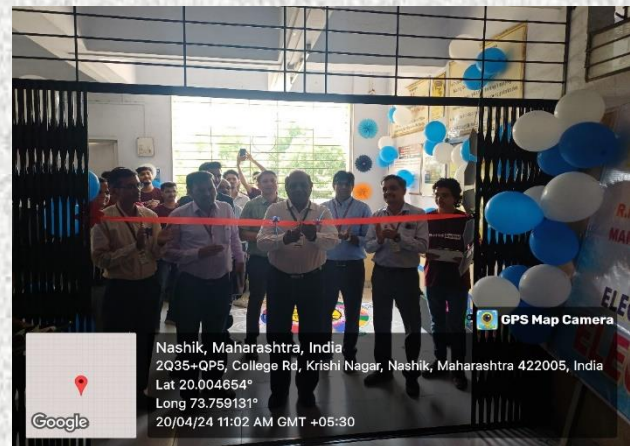
- 1) Mr. S. K. Mahajan
- 2) Mr. M. V. Reddy
- 3) Mr. H. B. Wagh
- 4) Mrs. R. S. Tidke



*EPSA Activity

1] Electro Spax 2K24

The **EPSA Committee**, a dynamic group from the Electrical Engineering Department of **G. E. S. R. H. Sapat College of Engineering, Nashik**, orchestrated an event “**Electro Spax 2K24**” that reverberated with creativity, innovation, and camaraderie. The event held on an auspicious **Saturday 20/04/2024**, this event brought together students, faculty, and distinguished guests in a celebration of knowledge and talent.

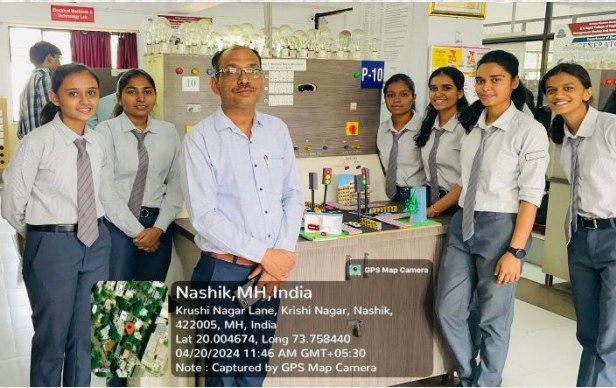


1. Poster Competition:

- The walls of the venue adorned with colorful posters showcased a myriad of themes—ranging from sustainability to social awareness. Each poster was a canvas of ideas, urging viewers to pause, reflect, and appreciate the power of visual communication.

2. Project Competition:

- The heart of the event lay in the project presentations. Ingenious minds had toiled for weeks, conceptualizing, designing, and refining their projects. From eco-friendly energy solutions to cutting-edge software applications, the projects spanned diverse domains.





3. Treasure Hunt:

- Clues hidden across the campus led participants on a thrilling adventure.
- The treasure hunt fostered teamwork, quick thinking, and a sense of adventure. Participants emerged sweaty but exhilarated, clutching their hard-won prizes.

4. Photography:

- Shutterbugs roamed the event, capturing fleeting moments. Their lenses froze laughter, determination, and candid interactions.
- The photography competition celebrated the art of observation. Each click immortalized a slice of time—a testament to the beauty of impermanence.

*Guest Lecture: “Cyber security& SAP Technology”

Guest lecture on topic of “Cyber security & SAP Technology” The lecture aimed to bridge the gap between traditional electrical engineering and the dynamic Information Technology (IT) sector.

Date: 7/03/ 2024 **Day:** Thursday **Time:** 11.00 to 1.00PM

Venue: Electrical seminar Hall

Resource Person: Mr.Gayas Shaikh , Ms.Gayatri Gaikwad and Ms.Manpreet Kaur



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*Guest Lecture: “Drone Technology Awareness”

Guest lecture on topic of Drone technology awareness. The lecture aimed to educate and create awareness among students from the Electrical Engineering department about the emerging technology of drones. The event was open to students of Second Year (SE), Third Year (TE), and Final Year (BE).

Seminar Topic: Drone Awareness Session

Date: 01/03/2024

Venue: Sir Dr. M. S. Gosavi Seminar Hall

Resource person: Nikhil D.Baravkar (Sr. Executive - Training & Certification Passenger



*Technical Activity: Final Year Project topic Evaluation and Guest lecture

On 27th July 2024, the industry expert evaluated final year project topics and guided the students. The project coordinator Dr. RVS Ramkrishna and Mr. M. U. Shetty accompanied with industry expert Mr. P. A. Deshpande.



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*Social Activity: Awareness on Energy Conservation, Electrical Safety and Cyber Security

In the Month of August 2024, the 5 groups of students from Third year conducted the activity on Awareness of Energy conservation and Electrical safety, among the school and college students. The activity guided by Mr. H. B. Wagh EPSA coordinator.

Group 1

Topic: Importance of Electrical Engineering and electrical Safety

Date: 05/08/2024 **Venue:** Madhavrao Lele School, GES Nashik

Students Group Members: Bhavsar Rohit, Deore Lekhraj, Jadhav Akash, Bhandarkar Prajakta ,Aher Nikita and Deshmukh Tanuja



Group 2

Topic: Energy Conservation

Date: 06/08/2024 **Venue:** JDC Bytco Management College, Nashik

Students Group Members: Bhoge Jay, Gade Aditya, Naik Aadiom, Dhage Anuj, Khule Jay and Katad Vedika

Group 3

Topic: Energy Conservation

Date: 06/08/2024 **Venue:** HPT Arts & Science College, Nashik

Students Group Members: Gosavi Sandip, Gaikwad Sahil, Kakad Tejas, Deore Manyu, Sonawane Vihang, More Piyush and Deore Harshada

Group 4

Topic: Cyber Security

Date: 09/08/2024 **Venue:** GES, SIR DR. M.S.Gosavi College of Pharmaceutical Education & Research, Nashik-5

Students Group Members: Sayyed Sufiya, Pansare Rinku, Sambherao Shraddha, Mahajan Mohini, Deorgaonkar Vedant, Pagar Chinmoy, Girase Bhavesh and Birari Manas



Group 5

Topic: Energy Conservation

Date: 17/08/2024 **Venue:** KBH Vidhyalay, Nashik

Students Group Members: Mahale Kumudini, Shirsath Nivedita, Saroj Rutuja, Waghmare Divya, Nagare Sneha, Kulkarni Yamini and Pawar Vishal

*Expert Talk: “Energy Conservation Awareness & Career Opportunities”

Expert talk on topic of Energy Conservation Awareness & Career Opportunities organised by Dr. D.M. Sonje and Mr H B Wagh. The lecture aimed to educate and create awareness among students from the Electrical Engineering department about the Energy conservation and what are the career opportunities. The talk was open to students of Third Year (TE), and Final Year (BE).

Topic: Energy Conservation Awareness & Career Opportunities

Date: 03/10/2024

Venue: TE classroom

Resource person: Pramod Dashpute, Energy Auditor and Manager



*Technical Activity: Resume Writing workshop

The common activity conducted by Mechanical Engineering department for Final year students of Electrical and Mechanical Engineering. The objective is to build resume according to requirement of company where students are applying for job. Importance of proper resume explained by expert. Final year students of Electrical engineering coordinated by H. B. Wagh.

Topic: Resume Writing

Date: 07/10/2024

Venue: Mechanical Seminar Hall

Resource person: Mr. Praful Gangurde (Panasonic life solution India Pvt ltd)



*Carrier Guidance Cell Activity: Gate Exam Preparation Online Session

The event is organised by ESPA Committee for TE and BE students under carrier guidance cell by Mr. H. Wagh. To get guidance for 2025 GATE exam preparation.

Topic: Gate Preparation Online Session

Date: 09/10/2024

Venue: BE classroom

Resource person: Prof Debapriya Das (IIT Kharagpur)



*T&P Activity: Alumni Talk

The talk is organised by T&P cell and Carrier guidance cell and handled by ESPA Committee for TE and BE students under guidance of Mr. S. V. Chakor and Mr. H. B. Wagh. The alumni talk inspires and guide the students by sharing their real-world experience.

Topic: Alumni Talk Cyber Security

Date: 16/10/2024

Venue: BE classroom

Resource: Alumni Mr Abdulvahid Ansari (Qualis Pvt Ltd Hinjewadi -Cyber security)



*Second Year Students Visit to Sivananda Electricals

The Industrial visit for Second year students organised as part of co-curricular activity by subject in-charge Dr S. G. Khadilkar and Dr. A. S. Koshti for subject Electrical Measurement

and Instrumentation

- Visit Details: -
 - Address: Sivananda Electricals
 - Date of Visit :18th Oct 2024
- Name of the staff accompanied:
 - [1] Dr S. G. Khadilkar
 - [2] Dr. A. S. Koshti
 - [3] Mr. S. P. Koparakar
 - [4] Mrs S. H. Desai



*Final Year Students Visit to Sahyadri Farm

The Industrial visit for final year students organised as part of co-curricular activity by subject in-charge Mr. H B. Wagh and Mr. S. V. Chakor for Elective subjects together PLC & SCADA and High Voltage Engineering. This visit has been organised to get real world exposure the application of electrical engineering in the agro-industrial sector, emphasizing the intergration of modern technology with traditional farming methods. Food processing, preservation and exporting as well as exploring frozen technology from sahydrai farm.

Name of the Company: Sahyadri Farm

Address: Sahyadri farm, Mohadi, Nashik, Maharashtra.

Date of Visit: 22nd Oct, 2024.

Faculty Accompanying:

1. Dr. D. M. Sonje
2. Dr. S.G.Khadilkar
3. Mr. H.B Wagh
4. Mr. S.V. Chakor



*Second Year Students Visit to Traction Nashik Road

The Industrial visit for Second year students organised as part of co-curricular activity by subject in-charge Mrs. J.N.Erande for subjects together Power Generation and Techniques.

Name of the Company: Electric Traction Nashik Road.

Address: Electric Traction Nashik Road. Maharashtra.

Date of Visit: 23rd Oct, 2024.

Faculty Accompanying:

1. Dr. A.S.Koshti
2. Dr. V.R. Naphade
3. Mrs. J. N. Erande



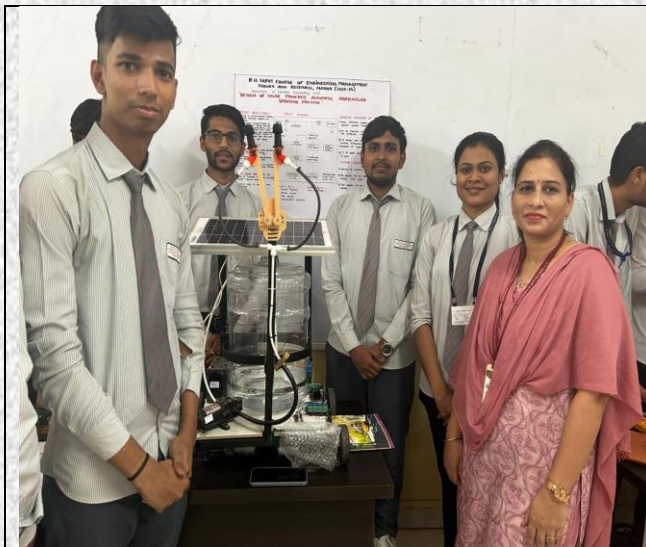


Students Corner:

*Students Achievements

Several individuals and teams achieved notable successes in various events and competitions on different dates throughout the year.

The Second Prize winner for the project titled “Design of Solar Powered Automatic Agriculture Spraying Machine, by Gaurav Gaidhani, Hemantkumar Gaikwad, Akshad Hiwale and Isha Ingale of final year participated in Project Exhibition I-Rise 2024.



Project Group photo with Guide



A certificate with Cash Prize distribution

***Alumni: ***

1. Ms. Vidya Zade alumni of 2019-20 batch has selected in MPSC as PSI. she has been congratulated from project director Prof. P.M.Deshpande and Principal Dr. S.S.Sane and Electrical Engineering Department.



2. Ms. Sakshi Deore alumni of 2023-24 batch has selected as Electro technical Officer (ETO) in Merchant Navy, she has been congratulated from project director Prof. P.M.Deshpande and Principal Dr. S.S.Sane and Electrical Engineering Department.



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3. Mr. Akshay Thorat alumni of 2023-24 batch has been ranked AIR 22 and selected as Lieutenant in Indian Army. He has been congratulated by project director Prof. P.M.Deshpande and Principal Dr. S.S.Sane and Electrical Engineering Department.



Faculty Corner:

*Faculty Publications: *

- [1] **Rekha Tidke**, Anandita Chowdhury, “Experimental Analysis of Prototype Modeling of Fuzzy Logic-Sliding Mode controlled Induction Motor Drive”, AIMS Electronics and Electrical engineering (ElectronEng) Scopus indexed journal and DOAJ. 2024, Volume 8, Issue 3: 340-359. doi: 10.3934/electreng.2024016
- [2] Rajesh Arya, R. K. Saket, **Atul Koshti**, Saad Mekhilef, Pradeep Purey ‘Probabilistic approach for standby and load sharing system reliability evaluation’, Reliability Analysis of Modern Power Systems by Wiley - IEEE Press, July-2024 (published) Book Chapter <https://onlinelibrary.wiley.com/doi/epdf/10.1002/9781394226771.ch5> <https://doi.org/10.1002/9781394226771.ch5> Print ISBN:9781394226740 |Online ISBN:9781394226771
- [3] Rajesh Arya, Chandrima Roy, **Atul Koshti**, Ramesh C. Bansal, Liladhar Arya ‘Evaluation of Basic Reliability Indices Using State Enumeration Method’, Reliability

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Analysis of Modern Power Systems by Wiley - IEEE Press, July-2024 (published)

Book Chapter <https://onlinelibrary.wiley.com/doi/10.1002/9781394226771.ch3>

<https://doi.org/10.1002/9781394226771.ch3> Print ISBN:9781394226740 |Online

ISBN:9781394226771

- [4] Rajesh Arya, **Atul Koshti**, Aanchal Verma, Baseem Khan, Liladhar Arya
'Methodologies for Reliability Evaluation of Network, Reliability Analysis of Modern
Power Systems by Wiley - IEEE Press, July-2024 (published) Book Chapter
<https://onlinelibrary.wiley.com/doi/10.1002/9781394226771.ch4>
<https://doi.org/10.1002/9781394226771.ch4> Print ISBN:9781394226740 |Online
ISBN:9781394226771

- [5] **Atul Koshti**, Eram Taslima, Pradeep Purey, Liladhar Arya, Sharat C. Choube
'Reliability Analysis of composite distribution system using frequency duration
concept', Reliability Analysis of Modern Power Systems by Wiley - IEEE Press, July-
2024 (published) Book Chapter
<https://onlinelibrary.wiley.com/doi/10.1002/9781394226771.ch15>
<https://doi.org/10.1002/9781394226771.ch15> Print ISBN:9781394226740 |Online
ISBN:9781394226771

***Faculty Achievements: ***

- [1] Dr. M. K. Chaudhari , Dr. V. R. Naphade and Dr. S. G. Khadilkar has been appreciated
for successfully PhD completion by Gokhale Education Society during society
foundation day in 19th Feb 2024.
- [2] Dr D. M. Sonje has been felicitated for elected as Member of Board of Studies of
Electrical Engineering SPPU for the year of 2023-2027, by Gokhale Education Society
during society foundation day in 19th Feb 2024.
- [3] Dr. Sonje, Dr. Khadilkar, Mr. Shetty, Mrs. Tidke, Mrs Deshpande and Mrs. Desai has
been felicitated for "**Long Service Award**" by Gokhale Education Society during
society foundation day in 19th Feb 2024.



***Faculty STTP/FDP/Workshop attended: ***

1. Mr. Mallireddy Venkateswara Reddy has completed the 9 Month EV Nanodegree Program and completed relevant technical Minor and Major projects in Electric Vehicle Domain, as a part of LIVE EV projects, and has successfully qualified the DIYguru ASDC EV examination.
2. Mrs. R. S. Tidke has successfully completed the online FDP on “Electric Vehicle”, organised by SkillDzire in collaboration with AICTE, for 1 month duration. Certificate issued on 4th Oct 2024.

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3. Mr. R. M. Shinde has successfully completed the online FDP on “Electric Vehicle”, organised by SkillDzire in collaboration with AICTE, for 1 month duration. Certificate issued on 4th Oct 2024.
4. Mr. H.V. Kulkarni has successfully completed the online FDP on “Substation Design”, organised by SkillDzire in collaboration with AICTE, for 1 month duration. Certificate issued on 4th Oct 2024.
5. Mr. H.B.Wagh has successfully completed the online FDP on “Electric Vehicle”, organised by SkillDzire in collaboration with AICTE, for 1 month duration. Certificate issued on 4th Oct 2024.
6. Mr. S.V.Chakor has successfully completed the online FDP on “AutoCAD EE”, organised by SkillDzire in collaboration with AICTE, for 1 month duration. Certificate issued on 4th Oct 2024.
7. Dr. S.G.Khadilkar has successfully completed the online FDP on “Solar Power Plant Design”, organised by SkillDzire in collaboration with AICTE, for 1 month duration. Certificate issued on 4th Oct 2024.
8. Dr. A. S. Koshti has successfully completed the online FDP on “Solar Power Plant Design”, organised by SkillDzire in collaboration with AICTE, for 1 month duration. Certificate issued on 4th Oct 2024.

Declaration:

Content in the e-Newsletter “The Quest for Excellence” is compiled and edited by **Prof. Mrs. R. S. Tidke**. Suggestions and inputs leading to the improvement of this newsletter are highly welcomed. Please write on, hod.electrical@ges-coengg.org and rekha.tidke@ges-coengg.org



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YouTube: <https://www.youtube.com/channel/UCIR0eReRx0K-gDoWf0GzHOQ>

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