

January- December 2023



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



GOKHALE EDUCATION SOCIETY'S
R H SAPAT COLLEGE OF ENGINEERING, MANAGEMENT STUDIES AND
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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:

Technical Activity: SE PBL Final Demonstrations

The student's chapter Electrical Power Students Association (EPSA) committee has organized the technical college event "Electro-spark" on 20th May 2023 under the guidance of EPSA coordinator Mr H.B.Wagh. Significant Role of these event aim was to create awareness among the students about the to provide student with opportunities to apply their technical knowledge and skills in practical studies.



Demonstrations of Project by students to Industry persons



Demonstrations of Project appreciated by faculties

*EPSA Activity: Engineer's Day & Teacher's Day Celebration *

The Combined Engineer's and Teacher's Day Event held on September 16th, 2023, at the Dr. M.S. Gosavi Seminar Hall and organized by the EPSA Committee was a resounding success. The event celebrated the profound impact of engineers and educators on society, emphasizing their symbiotic relationship. Here are the key highlights:



Felicitation of faculties on occasion of Teacher's Day and Students performance



Speech by students on Teachers day



Speech by Faculty on Engineers day

Faculty Development Program

The Department of Electrical Engineering in Association with InvensysCAD Solutions Nashik has arranged Online Three-Day faculty Development Program on “Ansys Maxwell: Tools & Research” from 11th April 2023 to 13th April 2023.

Objective of the FDP: A three-day FDP on “ANSYS Maxwell: Tools and Research” was intended to explore usage of the Ansys Maxwell Finite Element software in Research and application for the faculties and students. This Faculty Development Program (FDP) focused to provide an in-depth understanding of the Ansys Maxwell Tools in Research and Analysis of Electromagnetic devices, specifically Electrical Machines. This FDP will enable participants to build basics to hands on experience for • Ansys Maxwell Low Frequency & Maxwell GUI, • Optimizing Design using Optimetrics, • Ansys RMxprt, • RMxprt 2D & 3D Geometry Modeling. • Design & analysis using Motor CAD. • Design & analysis of Thermal, Mechanical & Vibration using Motor CAD.

Resource Person: Mr. Ajaysekhar Reddy, Application Engineer, ARK Info systems Pvt. Ltd., Bangalore. Email: ajaysekhar.reddy@arkinfo.in

Mode of FDP: Online

FDP coordinators: Dr. M. K. Chaudhari and Mr. S. V. Chakor.

***Guest Lecture for Students**

The PCRA faculty Mr. Pramod Daspute has conducted Expert lecture on topic, “Energy Conservation and Audit” on 03rd March 2023 for Third Year and Final year Electrical engineering students.



Expert Lecture by PCRA faculty Mr. Pramod Daspute

***Industrial Visit Activity:**

1] An Industrial visit to 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 on 16/03/2023 at Padghe HVDC transmission. The Chandrapur– Padghe HVDC transmission system is an HVDC connection between Chandrapur and Padghe (near Mumbai) in the state of Maharashtra in India. The staff accompanied, Mrs. S. G. Khadilkar, Mr. H. B. Wagh, Mr. S. V. Chakor, Mrs. M. P. Deshpande Mrs. S. H. Desai(TA) and Mr. J. G. Jagdale(TA).



Industrial visit to Chandrapur– Padghe HVDC transmission for class Third Year Students

3] An industrial visit to “Traction Workshop” Ekalahare, Nashik Road was organized by the Dr. D. M. Sonje and Mrs. M. P. Deshpande, as part of co-curricular activity for subject Electrical machine-I of Second year class students on Tuesday, 25/04/2023.

Students Corner:

*Students Achievements

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

1] On July 22, 2023, a team consisting of **Jayesh Khairnar**, Atharva Dharankar, Mayur, Kartik Salgude, Abhishek Yadav, Ankesh Patil, Tejas Darade, Prashant Wagh, Prathamesh Kapore, and Aditya Borade participated in the Electric Two-wheeler Design Competition 2023 (ETWDC) organized by SAEINDIA at SRM College Chennai. They secured Overall All India Rank 2, Special Awards (Innovation) Rank 1, and Best Design Report Rank 2.



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ACCREDITED WITH GRADE **B++** NAAC

Hearty Congratulations

Our Team ORKA 2.0 won Overall Performance Award All India Level Rank 2

National Level SAE
Electric Two Wheeler Design Competition 2023
Dr. G. Padmanabham Memorial
held at Rajalakshmi College Engineering, Chennai.

Vayu-35

Interdisciplinary project by the students of Mechanical, Electrical & E&TC Engineering.

2] Dhanashree Sopan Kahandal, Shifa Sayyed, Bavana Kapse, Harshada Pagar, Purvali Kakad, and Priti Salve, who were the runners-up in a Throwball competition on February 16, 2023 during Resonance 23-24.



Team photo along with Principal Dr P.C. Kulkarni, sport In-charge Dr. Gokul Kale

3] A team consisting of Shruti Mohan Gaikwad, Soham Sandeep Joshi, Ulhas Jagannath Bavisakar, Tanuja Govind Bhadane, and Harshada Ajit Pagar participated in the "ELECTROVERES 2K23" event held on May 10, 2023, in Sandip Institute of Technology and Research Centre, Nashik. They presented a project on "Fingerprint-Based EV Starter" and secured the first prize in the project competition, along with a prize of Rs. 3000.



Third year Electrical Engineering students' group at Project competition

4] A team of cricket enthusiasts, including Ganesh Santosh Sarangdhar, Abhishek Aher, Sameer Patil, Kaustub Gurjar, Rushikesh Borade, Atharva Kasar, Ujjwal Patil, and more, achieved the runner-up position in a cricket tournament at the Karmaveer Sports Fest 2023. Ujjwal Patil also received special recognition as the best bowler and the man of the series.



Students' achievement appreciated by Sir Dr. M. S. Gosavi and Dr. P. C. Kulkarni

5] Isha Vikas Ingale participated in the Swayam Sidhha camp for self-defense on March 8, 2023, describing it as a great experience.

6] Pooja Suresh Avhad, on May 20, 2023, participated in a quiz competition, highlighting its significance in developing skills and knowledge.

7] Shruti Mohan Gaikwad took an internship program on "Embedded System" from July 12 to August 12, 2023, and successfully completed a project on "IOT based smart blind stick."

8] Meghna Pravin Marathe participated in an internship program related to an "IOT based smart blind stick" on September 3, 2023.

9] Mayank Sanjay Kulkarni, Atharva Kasar, Sakshi Bhamare, and others represented the Dronacharya Sangha of R. H. Sapat College of Engineering, Nashik, in the Technoxian World Robotic Championship held from July 25 to 27, 2023. They competed in the Drone Challenge category and performed exceptionally well, reaching the final round in just 1.17 minutes. These achievements represent a diverse range of accomplishments in various fields, from sports and robotics to technical and self-defense training.



A group photo of team members at Technoxian World Robotic Championship

***Students Placement: ***

Students placed in various multinational company (Data by Mr. S.V. Chakor).

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Training and Placement Cell

Department of Electrical Engineering
Hearty Congratulations



 Sakshi Bhambre	 Raj More	 Rohan Garud	 Ruchita Thakare
 Jayesh Kahirnar	 Gaurav Gaidhani	 Ganesh Sarangdhar	



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Rohan Ahire



Nikita Chavhan



Akanksha Bhor



Nagesh Puri



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Shreyash Antapurkar



Deepak Jadhav



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Spandan Pawar



Mansi Patankar



Pavan Thapekar



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Sakshi Bhambre



Raj More



Sagar Mahajan



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ARMSTRONG | DEMATIC



Atharva Kasar



Prashnat Wagh



Isha Kulkarni



Vaibhav Nerve



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CG Power Solutions



Kanchan Musale



Sakshi More



Nikita Gagare

Faculty Corner:

*Faculty Publications:

- [1] **Rekha Tidke** and Anandita Chowdhury, “Performance Analysis of fussy logic-sliding mode-controlled Induction motor drive.”, International Journal of Electric & Hybrid vehicle DOI: 10.1504/IJEHV.2023.10057173
- [2] **S.S. Halve, Atul Koshti**, Rajesh Arya, ‘A Sampling Method based on System State Transition for Distribution System Adequacy Assessment using Distributed Generation’, Journal of Operation and Automation in Power Engineering.DOI:10.22098/JOAPE.2023.9939.1701
- [3] Rajesh Arya, **Atul S. Koshti**, Aanchal Verma, Chandrima Roy, Liladhar Arya, Sharat Chandra Choube, Baseem Khan, ‘ random interruption duration waste reliability estimation of stand alone hybrid renewable energy system by network reduction and sequential monte carlo simulation’, (2023)IET Generation Transmission and Distribution (Early view) <https://doi.org/10.1049/gtd.12910>.
- [4] **Deepak M. Sonje**, Dhananjay Joshi, “Minimization Of Switching Losses With Different Single Phase Inverter Topologies For On Grid Solar System”, European Chemical Bulletin, vol. 12, no.5, pp. 3883 – 3894, 2023. (Scopus Index Journal).
- [5] **Deepak M. Sonje**, Kalpesh Borse, “Design and Development of Spherical Induction Motor”, 2nd International Conference on Sustainable Technology and Advanced Computing In Electrical Engineering (ICSTACE-23), SVNIT, Surat.
- [6] Shaikh Uzma Sabir, **A. S. Koshti**, ‘Reduction of Selective Harmonics in PWM AC Chopper Using Artificial Neural Network’, IEEE conference: International Conference on Integration of Computational Intelligent System, ICICIS 2023. DOI: 10.1109/ICICIS56802.2023.10430273
- [7] **Atul S Koshti**, Aanchal Verma, Rajesh Arya, Chandrima Roy, Liladhar Arya, Sharat Chandra Choube, Baseem Khan, “Tolerable random interruption duration based reliability estimation of stand alone hybrid renewable energy system by network reduction and sequential Monte Carlo simulation”, IET Generation, Transmission & Distribution (Early view), 2023, pp. 1-12. <https://doi.org/10.1049/gtd2.12910> (Scopus & SCI indexed).
- [8] **Deepak M. Sonje**, Ravindra Munje, “Control of a Two-Wheeled Inverted Pendulum using Integral Sliding Mode”, **International Journal of Mechanical Engineering**, ISSN: 0974-5823, vol.7, no. 12, pp. 14-25, 2022.

*Faculty Achievements: *

- [1] Mr. Mandar Chaudhari has successfully completed his Ph.D from SVNIT, Surat. in Feb 2023. His topic of research was “Design and analysis of low power single phase and three phase line start synchronous reluctance motors derived from induction motors”.
- [2] Mrs. Shrunkhala Khadilkar has successfully completed his Ph.D. from Medi-Caps University, Indore in May 2023. His topic of research was “Distributed generation capacity planning and optimization in radial distribution system”.
- [3] Dr D. M. Sonje elected as member of Board of Studies of Electrical Engineering SPPU for the year of 2023-2027.
- [4] Mrs. R. S. Tidke has successfully completed FDP on Recent Trends in Renewable energy systems, 3rd Oct 2023 to 9th Oct 2023 organised by JSPM’s Rajashri Shahu College of Engineering.

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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