



ELECTRICAL ENGINEERING

"We step up ,we transform"

NEWSLETTER

JANUARY-JUNE 2023 | VOLUME 12

Vision :

- To be an excellent learning center in Electrical Engineering providing long term benefits to the society

Mission of the Department:

- To impart knowledge in the field of Electrical Engineering using contemporary Learning tools
- To promote research culture among students and faculty
- To serve society with deep awareness of social responsibility and ethics
- To collaborate with industry for value addition in academics



From the Principal's Desk

“ I'm glad to signify that AISSMS College of Engineering has completed 30 grand years of its establishment. AISSMS COE as an outcome of academic excellence achieved, is consistently producing University gold medalists and top rankers in different branches of engineering. Faculty is actively involved in research and development. College has number of very high-end analytical, computational and experimental facilities at the disposal of students. I wish all the best to the aspiring students, employers and all other stake-holders in achieving their goals.”

-Dr. D.S. Bormane



From the HOD's Desk

“ It gives me immense pleasure to find that the department magazine team is striving very hard to ensure a good quality magazine. The magazine provides a platform for the students to showcase their literary skills. All round the year, the faculty members and student are organizing and participating in different technical, co-curricular, extracurricular and sports activities. These efforts are needed to be applauded and encouraged. This also gives an opportunity to connect with the alumni who are eagerly waiting to know the development in the department. I extend my best and sincere wishes to the editorial team.”

-Dr. Mrs. A.A. Godbole

From the Editor's Desk

“The Editorial Board of the Department proudly presents its very own creation – Department Newsletter, which would be a snapshot of the various activities and advancements associated with Electrical Engineering Department. The progress of the society mainly depends on many people who are working behind the scenes, overtime round the clock planning things to the smallest. This newsletter will be a medium to provide proper acknowledgement and respect to all of these efforts and its results. This issue is a brief account of the important events held from January 2023 to June 2023. I want to extend my sincere thanks to my editorial team for the support to make this Newsletter stand out. ”

-Mrs. P.K. Sankala

“No resistance can drop our potential”

Editors' Board

- Dr. D.S. Bormane (Principal)
- Dr. Mrs. A.A. Godbole (HOD)
- Mrs. P.K. Sankala (Faculty)
- Mrs. Simeen Mujawar (Faculty advisor)
- Prasad Ahire, BE
- Aditya Kumbhar, BE
- Prasad Gadhekar, TE
- Chaitanya Patil, TE
- Vasundara Nikam, SE
- Kirti Naik, SE

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AISSMS College of Engineering, Kennedy
Road, Shivaji Nagar, Pune – 411001

Visit us at: www.aissmscoe.com



Faculty Achievements

Dr. A.A. Godbole

- Nominated on BOS Electrical Engineering, SPPU
- Energy Literacy Training

Dr. A.A. Apte

- Worked as a reviewer for IEEE Access journal, Asian journal of Control, Journal of power Electronics, IET Power Electronics.
- Energy Literacy Training

R.S. Shinde

- Screening Committee Member at ICMR-NIV, Pune.
- Energy Literacy Training.

Mrs. S Vadi

- Online certificate course of Python Programming
- Energy Literacy Training

S.S. Mujawar

- Energy Literacy Training
- EV Design



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
VASUDEO PONKSHE
for successfully completing the course

Power System Engineering
with a consolidated score of **88** %

Online Assignments	23.56/25	Proctored Exam	64.5/75
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Total number of candidates certified in this course: 157

Jan-Apr 2023
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23EE52534482072 To validate the certificate No. of credits recommended: 3 or 4

Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DR AISHWARYA APTE
for successfully completing the course

Electric Vehicles - Part 1
with a consolidated score of **85** %

Online Assignments	23.33/25	Proctored Exam	61.22/75
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Total number of candidates certified in this course: 1010

Jan-Feb 2023
(4 week course)

Prof. Devendra Jalihal
Coordinator
Center for Cybernetics and Digital Education, IITM

Prof. Andrew Thangaras
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL23EE01545451777 To validate the certificate No. of credits recommended: 1 or 2

Students' Achievements

Class Toppers (2022-23)
Congratulations!!

	RANK	NAME	SGPA
BE	1.	Pattewar Sakshi Ramdas	9.62
	2.	Sharwari Rohidas Maske	9.61
		Neelansh Bhambhani	
	3.	Nivedita Nishikant Kulkarni	9.6
	4.	Utkarsha Yuvraj Chavan	9.38
	5.	Ritika Nitin Patil	9.3
			
TE	1.	Mitesh Jaywant More	9.50
		Hafieza Akbar Attar	9.50
	2.	Abhishek Rajesh Andhare	9.36
	3.	Tejas Santosh Jadhav	9.24
	4.	Nakshatra Nachiket Kulkarni	9.14
	5.	Prasad Kailas Ahire	9.07
			
SE	1.	Aishwarya Rajeshwar Kokate	8.30
	2.	Sanika Vishwas Kurade	7.86
	3.	Tejas Rajnikant Panchal	7.66
	4.	Tanaya Kailas Desale	7.64
	5.	Prathamesh Sunil Malgunde	7.61

Students' Achievements

SAE INDIA eBAJA 2023: Resonance Racing E-BAJA

- AIR 2 4WD Vehicle
- AIR 2 Engineering Design Award
- AIR 3 Maneuverability
- AIR 4 in Virtual Dynamic Maneuverability Event
- AIR 5 in Virtual Dynamic All Terrain Performance Event
- AIR 5 Overall



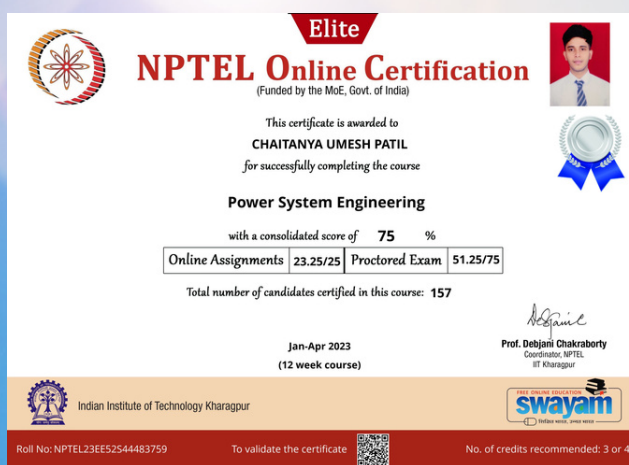
SAE INDIA BAJA 2023: Resonance Racing M-BAJA

- AIR 5 Overall
- 2nd in VDE Maneuverability
- 3rd in VDE All Terrain Performance
- 1st in Physical Maneuverability
- 2nd in Suspension & Traction
- 3rd in Overall Dynamics 5th Overall



Students' Achievements

- 15 students had successfully completed the Energy Literacy Program.
- Total 35 students are placed with average package of 4.68 LPA
- Students Higher Studies
 1. Rohit Patil
 2. Arushi Mahajan
 3. Maithili Balkawde
 4. Aadarsh Vishwakarma
- Chaitanya Patil student of TE successfully completed NPTEL course in "Power System Engineering".



Sponsored Projects

- The project, titled "Machine Vision Based Automatic Quality Check Machine for Soybean," is being guided by Prof. V.N. Tarange. It is sponsored by Simin Softsys Pvt Ltd.
- The project, titled "Benchmarking of PMSM Motor with Reluctance Motor," is under the guidance of Prof. S.S. Mujawar. It is sponsored by Brose India Automotive Systems Pvt Ltd.
- Prof. S.S. Mujawar is providing guidance for the project, which is titled 'Motor Drive Protection and Data Logging Using IoT for Electrical Goods Carrier Vehicle.' This project has received sponsorship from Simin Softsys Pvt Ltd.

Technical Activities

Second edition of Technical Magazine named "VIDYOUTH" was published by Department of Electrical Engineering. Under the Guidance and Coordination of Dr. A.A. Apte. The grand inauguration of 'VIDYOUTH' magazine, WALL magazine and photowall was done by the chief guest Dr. D.S. Bormane. The students who worked hard for the success of magazine were greatly praised by the chief guest.



Technical Magazine
VIDYOUTH



Alumini Meet

On Saturday, 25 February 2023 Alumni students right from first batch to 2022 passout batch came for the meeting and promised to help the department with placement, internship and other technical details. Meeting was Coordinated by Mr S M Chaudhari



Technical Activities

State Level Project Competition-2023

Department of Electrical Engineering, AISSMS College of Engineering, Pune had organized a State level Project competition on 6th May 2023, in Offline / Online mode under Institution of Engineers (India) STUDENTS' CHAPTER, ELECTRICAL ENGINEERING.

The inauguration was a grand ceremony where Chief Guest Mr. Mandar Inamdar, Principal Dr. D. S. Bormane, and H.O.D. Dr. Mrs. A. A. Godbole, all faculty & students were present.

Glimpses of the Event :



Poster Presentation competition-2023

The interdepartmental poster presentation competition on 'Recent trends in Electrical engineering' was organized by the Department of Electrical Engineering to encourage the students to come up with innovative ideas in the field of Electrical Engineering.

Students displayed their technical skills through an array of posters with immense enthusiasm and made the posters which described how technology can help society in various sectors.

Glimpses of the Event :



Technical Activities

Expert Lectures

Faculty Department of Electrical Engineering has organized Guest Lecture for preparation of Higher studies at 18th Feb 2023, from 1 pm to 3.30pm. Vallahpareskar (IISCBangaluru), Anurag Lambhor (IITguwahati), Aniket Aitawade (IIT Kharagpur). Trainer explain about studies and exams after engineering.



Department of Electrical Engineering had organized a Expert Lecture for SE & TE Electrical students on 20 th FEB 2023. The Expert of the session was MR. Shankar Wadne. The speaker has discuss about career opportunities after engineering. He has also discussed Ongoing career platform the session was very useful to students.



An expert lecture on Understanding of self and philosophy of karma was conducted on 17nd march 2023 for the students of SE,TE,BE by Mr.B.K.Mukesh. He started the session with explaining what is philosophy impact of it on our Life. He has given complete insights on our action shape our destiny and by knowing oneself, we gain insight into the choices that create our life path.



Technical Activities

Expert Lectures

An expert Lecture was organized for TE&BE Electrical students on Professional Ethics by Mrs.Kavita Kaushik. Lecture held on 20th March 2023. She explained moral Principle and values that guides individuals and Organisation in making ethical & Responsible decision within their respective Field.



An expert session on Higher Studies Abroad for Engineers was conducted for the TE&BE students on 21th March 2023. The speaker for the session was Mr.R Banerjee who explained Importance of Engineering and various field in abroad.



An expert lecture on the topic EV policies and job opportunities in EV Sector was conducted on 24th April 2023 for the students of BE . The speaker for the session was Dr.Santosh Patani,MSEDCL,Pune.He Explained EV Sector and Opportunities in it.



Technical Activities

Industrial Visits

An industrial visit at ITI Boribhadak, Daund was conducted on 21 March 2023. Students gained valuable insights into the critical role of electrical substations in power distribution. They learned about transformer operation, voltage regulation, and the significance of safety protocols in maintaining uninterrupted electricity supply.



Department of Electrical Engineering had organized a visit for TE Electrical students to Diesel Loco Shed, Pune on 12th April 2023. Students were enlightened with insights into diesel engine maintenance, operation, and safety procedures.



A visit was planned at Metro Station on 22nd Feb 2023. During our industrial visit to the metro station, we gained valuable insights into the intricate operations and engineering marvels that drive efficient urban transportation. We learned about safety protocols, maintenance procedures, and the significant role of technology in managing this vital public infrastructure.



Technical Activities

Industrial Visits

The Electrical Department organized a visit to an E-Auto facility for the TE (Third Year) students on the 9th of May 2023. During this visit, students had the chance to see various aspects of E-Auto manufacturing and operation, including electric vehicle components, charging infrastructure, and possibly even test drives or demonstrations of electric vehicles.



An industrial visit to Karad Projects and Motors Limited was organized for TE (Third Year) electrical engineering students on the 13th of May 2023. During this visit, the students were exposed to manufacturing of Induction Motors. They likely had the opportunity to tour the facility and gain insights into the company's operations.



A visit was planned at Metro Station on 22nd Feb 2023. During our industrial visit to the metro station, we gained valuable insights into the intricate operations and engineering marvels that drive efficient urban transportation. We learned about safety protocols, maintenance procedures, and the significant role of technology in managing this vital public infrastructure.



Technical Activities

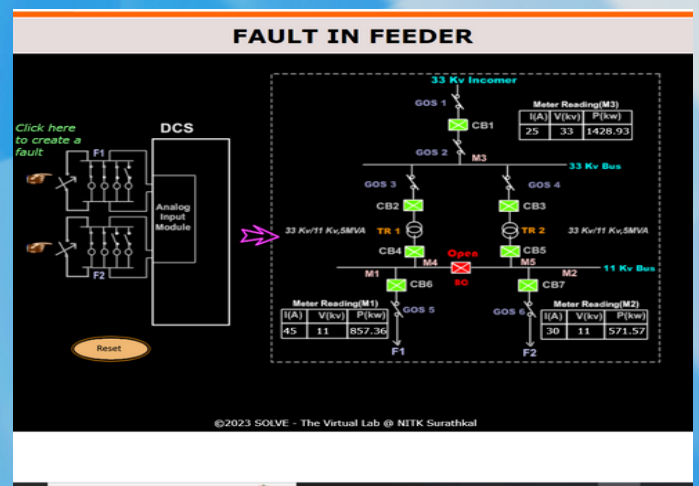
Workshop

A workshop "MATLAB and SIMULINK" workshop for TE Electrical students on April 24-26, 2023, in collaboration with IEI and IETE Student chapters.

The workshop began with MATLAB basics by Mr. V.S. Ponkshe. The second session covered model building in MATLAB Simulink and included simulations of basic and PWM inverters by Mrs. P.K. Sankala. On the third day, Dr. A.A. Apte focused on simulating closed-loop control for a buck converter-fed DC motor with a PI controller.



A workshop on "Fault scenario simulation in feeder" was conducted on 13th March 2023 for the BE students by Mrs. V.N. Tarange who is the assistant professor in AISSMS College of Engineering, Pune. About 50 students were a part of the workshop, they had a complete experience of detecting the faults in feeder and its various scenarios. The workshop was conducted on VLAB. The workshop helped the students correlate with the actual syllabus as well as get its application handling.

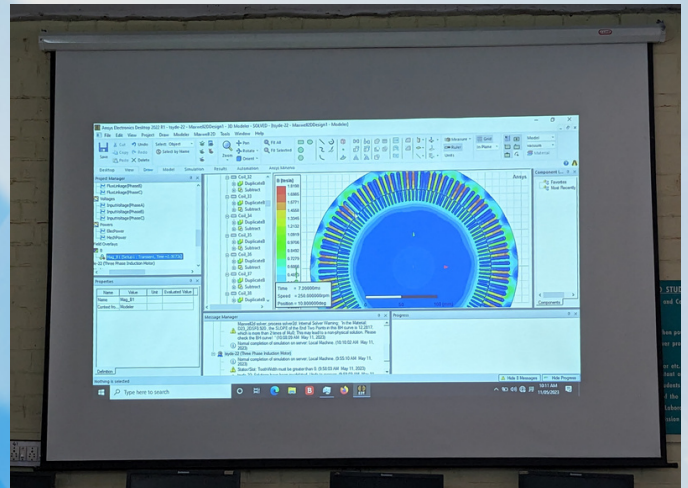


Technical Activities

Workshop

Department of Electrical Engineering had organized workshop on “Machine Design” and “Finite Element Analysis” Software for analysis of Electrical Machines for TE Electrical students on 11 May 2023 was conducted by Mr.Mandhar Kulkarni.

Workshop was about the use of calculations, models and Simulations to predict and understand how an object might behave under various physical conditions. Throughout the workshop, students had the privilege of engaging in hands-on activities, simulations, and expert guidance, which enriched their understanding of machine design principles. They were encouraged to explore real-world applications and challenges in the field, fostering critical thinking and problem-solving abilities.



Extra Curricular Activities

NSS Activity By Electrical Department

- At Kalyan Village during NSS residential camp on 13/02/2023 Trees plantation done by Volunteers Sreerekha Vadi, Simeen Mujawar, Rahul Shinde, and V S Ponkshe. The Camp had 17 attendees.
- NSS Residential Camp Conducted for two days on 12th and 13th Feb 2023 with participants Sreerekha Vadi, Simeen Mujawar, Rahul Shinde, and V S Ponkshe. The event had 60 attendees.
- Traffic Awareness and Safety Campaign was held under NSS on 4th May 2023 at Maldhakka Chowk,Pune



Farewell for BE students

Farewell of 2023 Batch was organised by TE Electrical Students on 20 May 2023. . Various activities like Dance, Fishpond, Musical Chairs were arranged. BE students expressed their gratitude towards department and shared their overall engineering experiences.



Papers/Book published in Journals

S. No	Authors	Document Details	Year	ISBN/ISSN	Publisher
1	Aparna Patil, Dr AA Godbole	Study of Total Harmonic Distortion in Multilevel Inverter Topologies	April 2023	2278-0181	IJERT
2	Aparna Patil, Dr AA Godbole	Hardware Implementation of Cascaded Seven Level H Bridge Multilevel Inverter in Solar & Battery for Domestic Load Application	May 2023	0971-3034	Indian Journal of Technical Education
3	Prof. S.M. Chaudhari	Electrical Machines-I (Gujrat Technological University)	April 2023	978-93-89828-20-7	Techknowledge Publication
		Electrical System Design ,Managenment And Auditing (Mumbai University)		978-93-5563-353-8	
		Illumination Engineering (Savitribai Phule Pune University)		978-93-5563-366-8	