



AISSMS IOIT

DEPARTMENT OF ELECTRICAL ENGINEERING

# ELECTROGRAPH

THE NEWS LETTER OF ELECTRICAL ENGINEERING



## Program Education Objectives (PEOs)

**PEO1**-Equip students with skills to excel in academic and professional career.

**PEO2**-Inculcate ability in the students to investigate problems in engineering and provide effective solutions.

**PEO3**-Prepare graduates to engage in lifelong learning by developing in them professional social and Ethical attitude.

## PROGRAM OUTCOMES (POs)

**PO1.** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. [Engineering knowledge]

**PO2.** Identify, formulate, research literature, and analyses complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. [Problem analysis]

**PO3.** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. [Design/development of solutions]

**PO4.** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. [Conduct investigations of complex problems]

**PO5.** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. [Modern tool usage]

**PO6** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. [The engineer and society]

**PO7.** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. [Environment and sustainability]

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**PO9.** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. [Individual and team work]

**PO10.** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. [Communication]

**PO11.** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. [Project management and finance]

**PO12.** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. [Life-long learning]

## Students placed in Academic Year 2019-2020 ( SEM-II)

Sr. No.	Name of the Students	Name of Company
1	Suraj Supekar	I-research
2	Swaraj Gawande	I-research
3	Pratik Maskar	I-research
4	Swaraj Gawande	Birla soft
5	Neha Hukumchand Mahajan	Infosys
6	Pratik Maskar	Square Yards
7	Ajinkya Patil	Square Yards
8	Chaitanya Paradkar	Square Yards
9	Aditya Narkhede	Concentrix
10	Apurva Wankhede	Concentrix
11	Nihal Mansuri	Concentrix
12	Nikhil Bhadake	Concentrix
13	Krushna Ghene	Concentrix
14	Pratik Maskar	Concentrix
15	MrudulaLonkar	Concentrix
16	Pratik P. Maskar	Mphasis Ltd.
17	Ishwari Deshmukh	Quality Kiosk Technologies
18	Nehal Mansuri	Quality Kiosk Technologies
19	Krushna Ghene	Quality Kiosk Technologies
20	Anand Jadhav	Quality Kiosk Technologies
21	Wankhede Apurva	Amazon
22	LonkarMrudula	Amazon
23	Suraj Supekar	Screen magic
24	MugdhaShembade	Screen magic
25	Swaraj Gawande	Amazon
26	Anand Jadhav	Toppers
27	Suraj Supekar	Amazon
28	Ishwari Deshmukh	Amazon
29	Keshav Mulkule	FANUC INDIA
30	Akash Dalvi	Concentrix
31	MrudulaLonkar	Neilsoft
32	Suraj Ramesh Supekar	Neilsoft
33	Parbat Sammrudhi	Concentrix
34	Shubham Sawant	Concentrix
35	Akash Suryawanshi.	Balaji Engg. Enterprises
36	Anjali Phasale	Concentrix
37	Aditi Chimanpure	Concentrix
38	Chaitanya Paradkar	Concentrix
39	Pagare Sudesh	Concentrix
40	Prajakta Pandkar	Concentrix
41	VishavambharUrmode	Concentrix
42	Neha Mahajan	Concentrix

## Department Achievements

Two days national level workshop on "Modern Trends in Lighting and Illumination Control". Sponsored by SPPU, Pune. on 06-07/02/2020

Mr. S.V. Shelar- Ref. Received PQ Analyser (worth 2 lakh) from Janitza GMBH Germany.



Dept of Electrical Engg 4 Students get Best Paper award for Paper PLC based welding Xmer in 2<sup>nd</sup> IEEE International Conference ( ESCI 2020) .

## Paper Publication (Journal)

Sr. No	Name of the Teacher/ Author	Title of the paper	Name of the Journal/ Proceeding/ Edited Books	Volume & Issue	Year of Publication	ISBN/ ISSN No.
1	Prof. Dr. S.M. Bakre	Load frequency control under ABT using client server communication- a case study	International journal of scientific & technology research	Vol- 8, Issue-10 Page2642-2648	October 2019	2277-8616
2	Prof. Dr. S.M. Bakre	Designing and simulation using software PV System	International journal of innovative technology & exploring engineering	Vol-9 Issue 6 Pages 899-903	April 2020	2278-3075
3	Prof. Dr. S.M. Bakre	Rooftop solar and wind power based hybrid energy storage system	International journal of innovative technology & exploring engineering	Vol-9 Issue 5 Pages912-919	March 2020	2278-3075
4	Prof. Dr. S.M. Bakre	Modeling and Simulation using MATLAB to mitigate technical challenges and scalability of clustered agricultural feeder.	International journal of innovative technology & exploring engineering	Vol-9 Issue 4 Pages 72-76	Feb 2020	2278-3035
5	Prof. Dr. S.M. Bakre	Harmonic Monitoring and Design of Passive Filter for an Educational Institute	International Engineering Research Journal	Special Issue AISSMS 21-23	March 2020	2395-1621
6	Mrs. A. D. Shiralakar	Micro controller based Power Factor Correction using Synchronous Motor	International Engineering Research Journal	Special Issue 35-37	March 2020	2395-1621
7	Mrs. A. D. Shiralkar	PLC Based Welding Transformer	International Engineering Research Journal	Special Issue 134-136	March 2020	2395-1621
8	Mrs. A. D. Shiralkar	Rooftop solar and wind power based hybrid energy storage system	International journal of innovative technology & exploring engineering	Vol9 Issue 5 Pages 912-919	March 2020	2278-3075
9	Mrs. A. D. Shiralkar	Modeling and Simulation using MATLAB to Mitigate Technical Challenges & Also for Scalability of Pilot Project of Clustered Solar Agricultural Feeder	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Vol-9 Issue-4 Pages 72-76	Feb 2020	2278-3075
10	Mrs. A. D. Shiralkar	Designing and Simulation using Software's PV SYST & HELIOSCOPE for Mitigating Challenges of Grid Connected PV Based Solar Plant	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume-9 Issue-6 Pages912-919	April 2020	2278-3075
11	Mr. S. V. Shelar	Designing and Simulation using Software's PV SYST & HELIOSCOPE for Mitigating Challenges of Grid Connected PV Based Solar Plant	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Vol-9 Issue-6 Pages912-919	April 2020	2278-3075
12	Mr. S. V. Shelar	Modeling and Simulation using MATLAB to Mitigate Technical Challenges & Also for Scalability of Pilot Project of Clustered Solar Agricultural Feeder	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Vol-9 Issue-4 Pages 72-76	Feb 2020	ISSN: 2278-3075
13	Mr. S. V. Shelar	Harmonic Monitoring and Design of Passive Filter for an Educational Institute	International Engineering Research Journal	Special Issue 21-23	March 2020	2395-1621
14	Mr. S.S. Shinagre	Solar Based Advanced Agri-Robot	International Engineering Research Journal	Special Issue 46-48	March 2020	2395-1621
15	Mr. V. Kamble	IOT Based Circuit Breaker Monitoring And Control	International Engineering Research Journal	Special Issue 5-7	March 2020	2395-1621
16	Mrs. S. M. Shaikh	<i>Case Study of Outcomes of Innovative Teaching methods adopted in Engineering Education in India</i>	IEEE Xplore (In process)		April 2020	
17	Mrs. S. N. Powniker	Flexible Power Electronics Transformer	International Engineering Research Journal	Special Issue 13-15	March 2020	2395-1621

## Expert Lectures

Sr. No.	Date	Activity Details/ Topic	Speaker/ Judge	Organizer/ Staff Coordinator/ Student Coordinator
1	27/01/2020	Electrical Safety	<u>Mr Mahesh Ghadge</u> Deputy Ex. Engineer - 132kVGaneshkhind Substation	Mrs.S.M Shaikh Dr. S.M Bakre

### Books Publication

Sr. No	Name of the Teacher/Author	Title of the Book	Name of Publication	Year of Publication	ISBN/ISSN No.
1	Prof. Dr. S.M. Bakre	The Handbook of Hydroelectric Power	IST Publishing House, Pune & Amazon KDP Publishing, USA	11/10/2019	ASIN: B079W5QKT5
2	Prof. Dr. S.M. Bakre	Electrical smart grid in easy steps	IST Publishing House, Pune & Amazon KDP Publishing, USA	13/10/2020	ASIN: B07SZRPFLG
3	Prof. Dr. S.M. Bakre	Python programming in easy steps	IST Publishing House, Pune & Amazon KDP Publishing, USA	10/04/2020	ASIN: B086Y-Y3YWP
4	Prof. Dr. S.M. Bakre	Smart grid	Nirali Prakashan, Pune	15/11/2020	ISBN-N4271
5	Mr.S.M. Chaudhari	Electric Power Transmission & Distribution	Tech knowledge Publication , Pune	Jan 2019	978-93-89684-13-1
6	Mr.S.M. Chaudhari	Maintenance of Electrical Equipment	Tech knowledge Publication , Pune	Nov 2019	978-93-89684-68-1
7	Mr.S.M. Chaudhari	Electrical Estimating And Costing	Tech knowledge Publication , Pune	Dec 2019	978-93-89684-66-7
8	Mr.S.M. Chaudhari	Utilization of Electrical Energy	Nirali Prakashan	Nov 2019	978-93-89684-67-4
9	Mr.S.M.C haudhari	Industrial Drives and Control	Nirali Prakashan	Jan 2020	978-93-89825-69-2
10	Mr.S.M. Chaudhari	Power System –II	Tech knowledge Publication , Pune	Jan 2020	978-93-89533-19-4
11	Mr.S.M. Chaudhari	Utilization of Electrical Energy	Tech knowledge Publication , Pune	Feb 2020	978-93-89825-94-7
12	Mr.S.M. Chaudhari	Electrical Substation Practices	Nirali Prakashan	March 2020	978-93-89944-50-1

### Resource Person

Sr. No	Staff Name	Date & Place	Details
1	Prof.Dr. S. M. Bakre Mr.S.V. Shelar	13/01/2020, Bosiar	Session to industry person on “KVAH Billing”
2		24/01/2020, SUPA MIDC	Session to industry person on “KVAH Billing”
3		13/02/2020, Palghar	Session to industry person on “KVAH Billing”
4		14/02/2020, Talasari	Session to industry person on “KVAH Billing”
5		17/02/2020, Kalyan (Dombivali)	Session to industry person on “KVAH Billing”
6		17/02/2020, Kalyan (Ulhasnagar, Ambarnath)	Session to industry person on “KVAH Billing”
7		18/02/2020, Kalyan (Badlapur)	Session to industry person on “KVAH Billing”
8		18/02/2020, Kalyan (Shahpur)	Session to industry person on “KVAH Billing”
9		19/02/2020, Kalyan (Murbad)	Session to industry person on “KVAH Billing”
10		19/02/2020, Kalyan	Session to industry person on “KVAH Billing”
11		20/02/2020, Wada	Session to industry person on “KVAH Billing”
12		27/02/2020, Solapur	Session to industry person on “KVAH Billing”
13	Mr.S.M.Chaudhari	10/01/2019 Venue-RH Sapat COEMSR, NASHIK	Expert Lecture delivered for Final year students-Tips for making a Good Presentation
14	Mr.S.M.Chaudhari	07/02/2020 National Level W/s-AISSMS IOIT, Pune	Delivered expert talk on-Illumination Scheme Design Session on Lite Software for design of Illumination Scheme
15	Mr.S.M.Chaudhari	16/02/2019(Sunday) Project Exhibition DIPEX -2020 .GCOE, Pune	Preliminary Scrutiny of projects (About 123 projects) Theme-Betterment of Rural Life
16	Mr.S.M.Chaudhari	08/03/2020and 09/03/2020 DIPEX -2020 Sangameshwar College, Solapur	16+ 22 Project scrutiny in two days. Interaction with authorities of Srijan Organisation and Dipex
17	Mr. S.D. Raste	28/01/2020 Pune	National Test Agency is appoint as a CBT Observer for Conduct of Examination(s) CMAT / GPAT Admission Test Jan-2020

**Mission:** To develop innovative & socially responsible engineering professionals by delivering in depth knowledge of Electrical Engineering

**Teaching Staff who attended Workshops/ Seminars.**

Sr. No.	Name of Staff	Event	Organized by	Date of Event
1	Dr. S. M Bakre	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
2	Mrs. A. D. Shiralkar	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
3	Mr. S.V. Shelar	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
4	Mr. S.V. Shelar	One day conference CEAAMATECH2020 Relevance of Industry 4.0 for Electrical Engineers	CEEAMA	08/02/2020 Hotel Sahar Mumbai
5	Mr. S. M. Chaudhari	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
6	Mrs. K. S. Gadgil	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
7	Mr. S. S. Shingare	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
8	Mrs. S. S. Landge	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
9	Mr. V. S. Kamble	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
10	Mrs.S. M. Shaikh	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
11	Mrs.S. M. Shaikh	2020International Conference on Innovations in Engineering Education - 2020 (ASET).	Higher College of Technology (HCT)-Dubai	09/04/2020
12	Mrs. V. P. Kuralkar	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
13	Mr. P. P. Mahajan	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
14	Mrs. N. M. Rao	R programming workshop	Teaching & learning Center,ICT,IITBombay,MHRD,India	09/11/2019
15	Mrs. N. M. Rao	Arduino Workshop	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), IIT , Bombay	08/02/2020
16	Mrs. N. M. Rao	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
17	Mrs. S. N. Powniker	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
18	Mrs. S. N. Powniker	R programming workshop	Teaching & learning Center,I CT, IIT Bombay, MHRD,India	09/11/2019
19	Mrs. S. N. Powniker	Arduino workshop	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), IIT , Bombay...	08/02/2020
20	Mrs. S. N. Powniker	Technical Paper writing : Plagarismissues,H index	AISSMSIOIT,SPPU	25/02/2020 TO 26/02/2020
21	Mrs. S. N. Powniker	Bharatiya Yuva Shakti Trust(BYST) Mentorship Training	AISSMS IOIT,BYST	27/12/2019 TO 28/12/2019
22	Mr. S.D. Raste	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
23	Mr. S.D. Raste	R programming workshop	Teaching & learning Center,ICT,IITBombay,MHRD,India	09/11/2019

**Non-teaching Staff who attended Workshops/ Seminars.**

Sr. No.	Name of Staff	Event	Organized by	Date of Event
1	Mr. Rakesh Raut	Two days national level workshop on "Modern Trends in Lighting and Illumination Control".	Department of Electrical Engineering., AISSMS IOIT	06 /02/ 2020 TO 07/02/2020
2	Mrs. S. S. Ingle			
3	Mr. Udhav Waikar			
4	Mr. Santosh Pawar			



## Industry Institute Interaction

### Industrial Visits

Sr. No	Date of Visit	Classes	Company	No of Students Visited	Organized by/ Attended by
1	17/01/2020	SE/TE	Electrical machines /DEM industrial visit to Manisha Engineers Pvt . Ltd , Pune	SE-45 TE-60	Mrs . V A Yawale Dr. S. M. Bakre Mrs K. S. Gadgil Mr. S. M. Chaudhari Mr. V. S. Kamble Mrs.S. S. Landge Mr. P. P. Mahajan Mrs. N. M. Rao
2	04/02/2020	BE	Ramelex Testing And Research Institute	41	Mrs.S. M. Shaikh Mrs. V. A. Yawale Mr. S. V. Shelar Dr. S. M. Bakre
3	06/03/2020	SE	132 KV Ganeshkhind Substation, Shivajinagar , Pune	60	Mrs.S. S. Landge Mrs. K S Gadgil Mr. S M Chaudhari Mr. P P Mahajan Mrs. N M Rao Mrs.S. N. Powaniker



Manisha Engineers Pvt . Ltd , Pune



Ganeshkhind Substation, Shivajinagar , Pune

### Power Quality Cell

#### Consultancy For

MSETCL, 512 ABW RS, Khadaki
MSEDCL Prakashbhavan
LIC Shivajinagar
Bridge Ice Tarapur
KSWG MIDCSupe
Mahek Houseware, Palghar
MSEDCL, 33/11 kV Dapachari
Chandra Mall, Dahanu
Krato world Public school, Dahanu
Guarding industries, Wada
MIDC, Bhosari



**Faculty Knowledge Forum**

Sr. No.	Name of Staff	Date	Details of activities performed
1	Mrs. S.M. Shaikh	20/12/2019	PQ audit discussion
2	Mr. S D Raste	30/12/2019	Hands on session on Moodle and Google class room training.
3	Mr. S.V. Shelar	10/01/2020	MSEDCL new billing system, KVAH billing system awareness session
4	Mrs. A. D. Shiralkar	24/01/2020	Autonomous structure, credit system discussion and subject finalization.
5	Mr. V. S. Kamble	07/02/2020	Power System operation and control.
6	Mrs. V P Kuralkar	14/02/2020	BE Syllabus structure and interlinking of elective subjects
7	Mr P. P. Mahajan	17/02/2020	Microcontroller and DCS systems
8	Mr .S.S. Shingare	17/02/2020	FE syllabus and structure finalization session
9	Mr. S M Chaudhari	28/02/2020	AISSMS Solar rooftop –Del Remo solar inverter remote monitoring system demonstration and SLD discussion
10	Mrs. S. N. Powniker, Mrs. N .M. Rao	07/03/2020	Solar, Biogas and renewable system discussion



**Professional Cell Activities**

**ISTE/IE(I) Student's Branch**

Sr. No.	Date	Activity Details/ Topic	Resource person/ Judge
1	07/01/2020	Video lecture on transformer design - Electrical – 40 students	Mrs . V. A. Yawale
2	13/02/2020	Technical Paper presentation SE/TE/BE	Mr. V.S. Kamble Mrs. N .M. Rao
3	13/03/2020	Tutorial Session conducted during the 2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing & Informatics (ESCI 2020) (12 <sup>th</sup> -14 <sup>th</sup> March 2020) SE/TE/BE	Dr.OmprakashBarure Director at BITC 2104



**Entrepreneurship Activities:**

- \* Soft skill Training for SE, TE and BE by Institute Holistic Healing,
- \* BYST Mentorship Training 27-28/12/2019

**EESA:**

- \* Cultural Programme for IEEE Delegates on 14/03/2020

**T&P Cell:**

- \* Expert Lecture, GD, Debate Competition, Technical Interview.
- \* nteraction of Principal Dr. P. B. Mane with unplaced students of BE.

**Industrial Training (29 Students)-**

- \* Government ITI, Hi-Tech and Advanced Vocational Training system, Aundh

**व्यंगचित्रातून कोरोनाच्या गांभीर्यावर प्रकाश**

पूर्व: पूर्ण सुलभता  
पुणे: पूर्ण सुलभता  
आज कोरोना महामारी, कोरोनाच्या दुहेरी आव्हानातून प्रकाश काढणे गरजेचे आहे. कोरोनाच्या दुहेरी आव्हानातून प्रकाश काढणे गरजेचे आहे. कोरोनाच्या दुहेरी आव्हानातून प्रकाश काढणे गरजेचे आहे.

अधिकारी कोरोनाच्या दुहेरी आव्हानातून प्रकाश काढणे गरजेचे आहे. कोरोनाच्या दुहेरी आव्हानातून प्रकाश काढणे गरजेचे आहे. कोरोनाच्या दुहेरी आव्हानातून प्रकाश काढणे गरजेचे आहे.

Pudhari News Paper-News about Social Awareness Cartoons drawn by S.M.Chaudhari Date 06/05/2020

**इलेक्ट्रिक क्षेत्रातील कलाविषयी कार्यशाळा**

एआयएसएसएमएस आयओआयटी विद्युत् अभियांत्रिकी विभागातर्फे 'मॉडर्न ट्रेन्ड्स इन लाइटिंग अँड इल्युमिनेशन कंट्रोल' या विषयावर राष्ट्रीयस्तरावरील कार्यशाळा नुकतीच झाली. इल्युमिनरीज, लाइटिंग फिक्स्चर, इल्युमिनेशन डिझाईन सॉफ्टवेअरचे सादरीकरण कार्यशाळेत करण्यात आले. विभागप्रमुख डॉ. वी. ई. कुंभारे, के. के. वाघ, प्राचार्य डॉ. पी. बी. माने आदी या वेळी उपस्थित होते. डॉ. संजय देवकर, वर्षा शिंदे, श्रीकांत काळे, प्रवीण मोरे, तानाजी सावंत, संजय पाटील आदींनी मार्गदर्शन केले.