



# AISSMS

**INSTITUTE OF INFORMATION TECHNOLOGY**

Affiliated to Savitribai Phule Pune University, Approved by AICTE,  
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## Department of Electrical Engineering

IE(I) student's chapter

2018-2019 SEM I

Curricular activities

Sr. No	Date	Class	Topic	Resource person	Module description	Department
1.	19 /6/18	TE	Types of business ownership	Mr.Puranik	Students were briefed about the Meaning, scope, function, and importance of management. Difference between administration and management was also explained to them by giving suitable examples . Types of business ownership: Sole proprietorship, Partnership (Act 1934), LLP (Limited Liability Partnership), (Act2008) was discussed in detail .  TE Students (29)	Electrical
2.	26/6/18	TE	<b>Managerial skill development</b>	--	Group discussion activity was conducted for TE electrical . Students were divided into groups and they were given the topics such as importance of marketing , different types and managerial skills development etc .  Students actively participated and the activity made it easy for the students to understand the marketing principles and the different managerial skills. .  TE students : 40	Electrical
3.	30/6/18	--	<b>Chat with light Session 04:Lighting Management System Indian Society of Lighting Engineers, Pune Chapter</b>	Mr. Bhavik Vyas , Mr. Sumith Mehta (Syska Led Light) , Mr. Talware Yogendra (Storm energy Pvt. Ltd. ),	ISLE PUNE chapter organizes chat sessions to spread awareness about latest lighting technologies among the students and the working professionals. This chat was focused on Lighting Management System. The basic intention of organizing such chats is to encourage the budding engineers	Electrical



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					<p>to take up new projects and assignments in lighting Systems. During the chat the experts discussed about <b>DALI</b> (digital addressable <b>lighting</b> interface). DALI is a two-way communication system that brings digital technology to <b>lighting</b>. An international standard for communication, <b>DALI</b> defines the commands that ballasts need to recognize in order to be considered <b>DALI</b> ballasts. Also the future lighting systems, smart systems and the technology was being discussed.</p> <p>27 industrialist and students</p>	
4.	28/9/18	TE	Braking of DC Series Motor	--	<p><b><u>Video Lecture on Topic Braking of DC Series Motor:</u></b></p> <p>A video lecture was conducted in TE Electrical class on topic Multilevel Inverters. It is the lecture of Dr. G narayanan, Associate Professor, Dept. of Electrical Engg, Indian Institute of Science, Bangalor. This video explains the following Points,</p> <ol style="list-style-type: none"> <li>1. Multilevel Inverter concept.</li> <li>2. Types of multilevel inverters</li> <li>3. Operation of Diode clamped Multilevel Inverter</li> <li>4. Operation of Flying Capacitor Multilevel Inverter</li> <li>5. Operation of Cascaded h-Bridge Multilevel Inverter</li> </ol>	Electrical



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					Total students : 48	
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### VISITS

Sr. No	Date	Class	Topic	Resource person	Module description	Department
1	28/05/18 to 29/05/18	BE	Larsen and Toubro Training programme	Mr.Sanjay Kale- DGM – Training, Mr. Narendra Kashyap- Technical Trainer,Mr. Prashant Tailor, Ms Smita, Mr.Yogendra Talware  Larsen & Toubro Limited, Switchgear Training Centre, T-156/157, MIDC, Bhosari, Pune - 411026	First day sessions covered introduction to LV switchgear and demonstration of L& T product range. Second day session covered Power quality issues and the art of reading electricity bill for both LT and HT consumers followed by Survey format discussion and demonstration.  No. of Students =17 students	Electrical
2	06/07/18	TE	<b>Electrical Installation, Maintenance &amp; Testing (EIMT)- Industrial Visit</b> MAHATRANSCO 220kV Parvati Substation	Dy.Executive engineer MAHATRANSCO 220kV Parvati Substation	The students got to walk through the substation while the Dy.Executive engineer and his team guided and made students well versed	Electrical



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					with the different electrical equipments in the substation. Students were also briefed about the maintenance practices carried out in the substation as well as the earthing of the substation. No. of students: 41 7 staff members	
03	31 <sup>st</sup> August 2018.	BE	Maharashtra State Load Dispatch Centre, Kalva, Airoli, Navi Mumbai.	Sr. Engineer Load Dispatch Centre, Kalva, Airoli,	Maharashtra State Load Dispatch Centre is the apex body for integrated operation of electricity grid in the State and constituted under section 31 of Electricity Act 2003. 51 students	Electrical

### EXPERT LECTURES

S r. N o	Date	Class	Topic	Resource person	Module description	Department
1	22/06/18	SE	Analog Electronics	Mr. K V S V Trinadh	It was indeed a	Electrical



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				Reddy , Made Easy, Pune	knowledgeable Lecture for the students for assessing their own skill level, competence and interests. This lecture help the students to apply the tricks to use the various analog circuits in various applications & reduce the gap between the theoretical & practical Knowledge. 25 students	
	24/07/18	TE	Electrical Safety and legal provisions in Electricity Act	Mr. Ashok Borgaonkar Freelance Certified Energy Auditor, Power Consultant M-9960890100	He spoke about causes of accidents, prevention of accidents and precautions to be taken. He also gave the classification of hazardous area and various statutory regulations and Indian electricity rules of central Electricity authority (CEA). Also he explained the methods of administering artificial respiration. No. of students: 51	Electrical
3	21/08/18	BE	Importance of Control system in technical competitive exams and the opportunities overseas for	Mr. Yogesh Ranga Senior Executive, The Chopras ,	Mr. Yogesh Ranga discussed with our students about the applications and	Electrical



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			electrical engineers .	Pune.	importance of control system in practical world. It was indeed very helpful for the students. Students also got an insight of various competitive exams and the importance of control system in it. They were also briefed about the opportunities overseas for electrical engineers . Mr.Ranga also told about the various universities abroad where the students can apply for their masters and also discussed about the procedure . ON campus and OFF campus job opportunities during MS were also discussed and the students were guided for the same .  52 students	
4	11/9/18		Interview skills and effective use of English language in communication.	Ms Amrapali Aurangabadkar	Ms Amrapali Aurangabadkar informed the students the importance of communicating in English. She discussed the mistakes students make while using word such as 'please ' , can' , ' may' etc .She then	Electrical



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					briefed the students how to introduce themselves at the time interview by giving a simple example . She also elaborated on the use of gestures and expressing themselves. Students enjoyed the session very much . SE- 45 BE-24	
5	1/10/18	SE/TE/BE	Role of engineer as a Technical sales Engineer	Mr. Guruprasad A Khaire. Application and Sales Engineer. Revine Tehnology Pvt. Ltd. Pune	Role of engineer as a Technical sales Engineer, Thermography and Working and Thermal Imager. Total students : 49	Electrical

## WORKSHOP

Sr No	Date	Class	Topic	Resource person	Module description	Department
1	03 <sup>rd</sup> Sept18 to 7 <sup>th</sup> Sept.2018	BE	One week workshop on Advanced PLC Programming (Allen Bradley)	Mr. Pawada S. B. and Mr. Kulkarni D. V.  Training Officer Hi-Teh Training nter, Government ITI Aundh, Pune.	This Advanced PLC Programming (Allen Bradley) come under Hi-Tech training Scheme (INDO-GERMAN Project). Students of BE electrical got the practical exposure to the Advanced PLC Programming, Mechtrincs (Festo Stations) and Basic Industrial Robotics (Yaskawa). Topics Covered under the	Electrical



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					<p>program</p> <ol style="list-style-type: none"> <li>1.PLC Fundamentals</li> <li>2.Advanced PLC functions</li> <li>3.Ladder diagram programming</li> <li>4.Temperature sensing, monitoring and control ling.</li> <li>5.SCAD A</li> <li>6. PLC and SCADA Interfacing</li> <li>7.SCAD A Screen development</li> <li>8.Various industrial Applications</li> </ol> <p>Students 27</p>	
02	26.09.2018 to 28.09.2018		A Three Day Practical Oriented Workshop on Industrial Approach in Electronics.		<p>A three day practical oriented workshop was organized from 26.09.2018 to 28.09.2018, organized by Electrical Engineering Department, AISSMS, IOIT, Pune, Conducted by Electronics Study Centre, Nashik.</p> <p>In the three day workshop, on first two days identification and testing of all the components of electrical and electronics are taught to the students. On the third day small projects have been given to the students and asked to do the project in a group of four.</p> <p>62 students</p>	Electrical

### Extracurricular activities

Sr. No	Date	Class	Topic	Resource person	Module description	Department
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	24/07/18	SE/TE/ BE	Debate competition for Electrical Students.	--	Details of the event were as follows. Participation: In group of 4 students. Topics for debate: 1.Impact of technology on Jobs 2.Demonetization: 3.Success and Failures 4.Is India ready for Electric Vehicles? 5.One year of GST.  Total students : 28	
	20/09/18	TE and BE	Technical Interview session for TE and BE students	Prof. P P Mahajan Prof.S S Landge.	Technical Interview session was organized under T & P activity on 20 <sup>th</sup> September 2018 for all students of TE & BE class of Electrical Engineering Department. Details of the event were as follows. Total students : 30	Electrical
1	21/09/18	SE/TE/BE	Group Discussion competition		Group Discussion competition was organized under T & P activity on 21 <sup>st</sup> September 2018 for all students SE, TE and BE class of Electrical Engineering Department. Details of the event was as follows.  Participation : In group of 5 students.	Electrical



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					<p>Topics for GD:</p> <ol style="list-style-type: none"><li>1. Increasing number of Engineering colleges is a boon to society.</li><li>2. Should we change present system of education?</li><li>3. Hard work or smart work – which is important?</li></ol> <p>Total students : 30</p>	
20/08/18	SE/TE/BE	Akshay Urja Diwas Celebration	Dr. Nilesh Rohankar DGM MEDA Mr. Santosh Patni , DYEE	The department of electrical engineering celebrated the Akshay Urja Divas on 20 <sup>th</sup> August 2018 . Dr. Nilesh ROhankar , DGM –MEDA was invited as the speaker to share his views on energy conservation and importance of renewable energy resources. Dr. Rohankar emphasized on how effectively we can use renewable energy resources.	Electrical	
					SE-55,TE -47, BE-39	



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2	07/09/18	SE	<b>ELECTROFUNDA</b>	1.Prof. H.P Chaudhari (HOD Instrumenation ) , 2.Prof.A.D Shiralkar	Students of SE demonstrated various fundamental laws and prepared prototype (working models ) to explain the basic principles of electrical engineering such as Faraday's Laws Lenz's Law etc.  Number of participates :26	Electrical
3	14/9/18	Staff members	<b>Engineers day celebration</b>	Mrs. K.S Gadgil	On the eve of engineers day faculty members shared their technical knowledge and details of the various workshops attended by them . Through this activity even the other faculty members could know about the workshops which actually they could not attend . The session was followed by Questions and Answers session.	Electrical
4	5/10/18	TE	PSIM Circuit Trouble Shooting	Mrs. S.S Landge	A circuit trouble shooting competition was organized for TE Electrical students. The power electronics circuits of 1 phase and 3 phase converters, inverters, voltage regulators and DC choppers were designed with some	Electrical



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					<p>errors in it using PSIM software. Students were informed to find out the errors, correct it and show the correct output of the circuit.</p> <p>Winners-</p> <ol style="list-style-type: none"><li>1) Pancham Chaudhari</li><li>2) Bhagyashree Patil</li><li>3) Nilam Shelake</li></ol> <p>Total students : 34</p>	
5	9/10/18 to 12/10/18	SE/TE/BE	BE Energy WISE CONSERVE !!!	--	<p>The department had organized a drive for creating awareness about energy conservation - BE Energy WISE CONSERVE !!!</p> <p>Student from SE, TE, BE had participated in this activity. The students had to formed a group of two to five students and visited the</p>	Electrical



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					<p>residential areas in around Pune city . The students collected the data of energy consumption of major electrical appliances like TV, refrigerator, Boilers, microwaves etc in the houses. They also showed the residents the amount of energy consumed by equipments in stand by mode. The students also measured the voltage between earth and neutral. They explained the importance of having this voltage as 0V to the residents. Meters used for the measurement were POWERGUARD</p>	
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					meters – 10 A and 20 A , Make – MECO SE- 15 TE –16 BE-6	
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### 2018-2019 SEM II

#### Curricular activities

Sr. No	Date	Class	Topic	Resource person	Module description	Department
1	9-01- 19	TE	Video lecture on design of transformer	--	Students were shown the video on the manufacturing process of transformer . Distribution and power transformer manufacturing details were shared .  42 students	Electrical
2	16/01/19	BE	Smart Grid- Video Lecture followed by group discussion.	--	Students were shown videos on “What is Smart Grid”, Smart Grid Technology, The Power Grid. These were then discussed in class in groups for better understanding.  43students	Electrical
3	23/01/20 19 and 30/01/20 19	BE	HV Group Discussion and Presenattions	--	All students present in the class were divided in groups. Each group was asked to read and discuss theories of breakdown for solid and liquid dielectric. After giving sufficient time for preparation, each group was asked to come and present their theory to the class.	Electrical



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					The best 3 groups were awarded certificates in the department function(attached below).  No of Participant: BE Class 31 & 20 students respectively on the 2 days	
4	15 <sup>th</sup> FEB- 28 <sup>th</sup> March 2019	TE	<b>ILLUMINATION SCHEME DESIGN CONTEST</b>	Mr. S.V Shelar , Mr. S. M Chaudhari and Mrs. V. A Yawale	TE Electrical students (70) were asked to design revised illumination scheme for three floors of AISSMS IOIT . This includes – classrooms , laboratories , library , multipurpose hall etc. Work done by students : <ol style="list-style-type: none"><li>1) Measurement of – area , lux level of existing illumination</li><li>2) Analyzing the performance of existing illumination scheme by calculations and using LITE PACK Software .</li><li>3) Designing revised illumination scheme and Analyzing the performance of existing illumination scheme .</li><li>4) Comparison of 2 and 3 above</li><li>5) Presentation on the above work done</li></ol> ** Recommendations as per revised illumination scheme will be submitted to the college authorities for the needful Winners were : <ol style="list-style-type: none"><li>1) Deshpande Shrawani , Sakshi Shah , Mugdha Shembade, Mungase Dnyaneshwari, Gabhale Pramila</li><li>2) Deshmukh Ishwari, Chimanpure Aditi , Anjali Phasale , Nilam Shelake , Bhagyashri Patil</li><li>3) Ghene Krushna Disambar , Paradkar Chaitanya, Parbat Samruddhi, Kalyani Shewale, Kamble Disha</li></ol> 70 students participated	Electrical



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### VISITS

Sr. No	Date	Class	Topic	Resource person	Module description	Department
1	22/1/19	TE	DEM : INDUSTRIAL VISIT	Silverline Electricals Pvt. Ltd Ispat raod , Sanaswadi Pune Ph. No : 9823664327	<p>TE Electrical students along with three faculty members had visited <b>Silverline Electricals Pvt. Ltd</b> . The unit is basically into the production of single phase and three phase core type distribution transformers as well as power transformers upto 5000MVA. Their major customer are MSEDCL . The detailed construction , assembling procedures were being explained to the students . Students understood the procedure of designing a three phase core type distribution as well as power transformer . Testing details and the various IS standards 2026. 1180 etc were also briefed to the students .</p> <p>60 students and 3 staff members viz Mrs V. A Yawale , Mrs. A.D Shiralkar , Mr.K.K Puranik Attended the visit</p>	Electrical
2	15/2/19	SE	132 kV Ganeshkhind	Mr. Gaikwad	Students of SE Electrical visited 132 kV Ganeshkhind	Electrical





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			<b>Substation, Pune-16</b>		Substation, Pune on 15th February 2019. Brief about the visit:  Students gained knowledge about, Single line diagram of substation .Information about various equipment used in substation, their working and use in substation .Substation control room, control panels and the various protections provided .Battery room  35 students attended the visit	
3	05/03/2019	BE	<b>MSEDCL's Testing and Quality Assurance Laboratory- Phursungi</b>	MSEDCL's Testing Engineer	An industrial visit to MSEDCL's Testing and Quality Assurance Laboratory - Phursungi. The students were shown the following: 1. Meter Testing Unit worth 1.5 crores –can test cogeneration meters, industrial meters etc. 20 meters can be tested at one time. 2. Cable testing-measurement of cable	Electrical



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					<p>resistance.</p> <p>3. Tensile strength testing of cable insulation as well as conductors</p> <p>42 students and 3 staff members viz Mrs. S.M.Shaikh, Mr. S SShingare and Mr. V.S.Kamble attended the visit.</p> <p>Activity was organized by Mrs.S.M.Shaikh.</p> <p>No of Participant: BE Class (42students)</p>	
4	22 <sup>nd</sup> March 2019	BE	<b>Kesari Printing Press, Narayan Peth, Pune</b>	<b>Mr. Erande</b>	<p>Industrial visit of BE electrical class is organized to Kesari Printing Press, Narayan Peth, Pune</p> <p>Brief about the visit:</p> <p>Students gained knowledge about, Printing process. Various Drives used in Printing Process. Control system of driving mechanism.</p>	Electrical



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					S.S. Landge 41 students attended the visit	
03						Electrical

## EXPERT LECTURES

S r. N o	Date	Class	Topic	Resource person	Module description	Department
1	13/2/19	TE	Industrial Automation and Control Systems	Mr. Barure Omprakash Dtap-V Automation Pvt.Ltd.,Pune M:932122789	Role of control systems in automation industry. Control based final year projects	Electrical
2	20/3/19	TE	Construction of EHV substation	Mr.Ashok Borgaonkar , BEE certified Energy Auditor	TE and BE students were briefed about the substation equipments , selection of site , soil testing relays , control panel etc. 44 students attended the lecture .	Electrical
3	01/4/19	TE and SE	career opportunities for electrical engineer	Mahesh Ghorpade , Embedded Software developer , 9595429409	career opportunities for electrical engineer in software . details of various software used in the industry by electrical engineer and the scope of it was discussed in detail . TE- 49 students SE-44	Electrical



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					students	
4	3/4/19	SE	Solar PV	Saurav Nirgudkar	<p>The department of electrical engineering had arranged the expert lecture of Mr. Saurabh Nirgudkar , Project Eenergy , Sgurr Energy India Ltd on Solar PV system . He gave the description of Solar PV installations , he also described the method of finding the IV curves of P V panels .Also have insight about the solar potential in India . Shared the potential opportunities to work in solar energy .</p> <p>.Number of participates : SE-38</p> <p>Organized by : Mrs. K. S. Gadgil</p> <p>Attended BY : Mrs. N. M. Rao , Mrs. K. S. Gadgil , Mrs. V. A. Yawale</p>	Electrical



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**Mr.Omprakash Barure delivering lecture on “Industrial Automation and Control Systems” for TE (Electrical) students on 13<sup>th</sup> Feb 2019.**

Date	:13/02/19
Time	:1.00pm to3pm
Name of the Speaker, Designation Address and Telephone No	:Mr. Barure Omprakash Dtap-V Automation Pvt.Ltd.,Pune M:932122789
Topic	: Industrial Automation and Control Systems
Organized By	:Mrs. A. D. Shiralkar



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Attended By	:TE Students
Name of Faculty who attended	: Mrs. A. D. Shiralkar
Following Points were discussed	: Role of control systems in automation industry. Control based final year projects.



Title of photo: Mrs. K. S. Gadgil introducing Mr. Saurabh Nirgudkar , Project Energy , Sgurr Energy India Ltd.

Title of photo: Mr. Saurabh Nirgudkar , Project Energy , Sgurr Energy India Ltd. delivering his talk .

**Brief Report :**

The department of electrical engineering had arranged the expert lecture of Mr. Saurabh Nirgudkar , Project Eenergy , Sgurr Energy India Ltd on Solar PV system . He gave the description of Solar PV installations , he also described the method of finding the IV curves of P V panels .Also have insight about the solar potential in India . Shared the potential opportunities to work in solar energy .

.Number of participates : SE-38

Organized by : Mrs. K. S. Gadgil

Attended BY : Mrs. N. M. Rao , Mrs. K. S. Gadgil , Mrs. V. A. Yawale





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## **INTERACTION OF Mr. MAHESH GHORPADE WITH STUDENTS**

**Brief Report :**

Mr. Mahesh Ghorpade , Embedded System developer, Knorrbremse Centre India Pvt. Ltd , Pune addressed the students about the various opportunities for Electrical Engineer in software as well as core companies . He also briefed the students about the recent software's in the field of Electrical Engineering and also the scope of it .

He also shared his personal experience and emphasized on academics as well .

Activity was organized by Mrs V. A Yawale

No of Participant: TE Class (50students)