



Department of Electrical Engineering

IE(I) student's chapter

2019-2020 SEM I

Curricular activities

| Sr. No | Date | Class | Topic | Resource person | Module description | Department |
|--------|---------------------------|-------|---|-----------------|---|------------|
| 1. | 25/6/19 | TE | SUPPLY AND DEMAND CONCEPT | -- | TE electrical students participated in the activity conducted to demonstrate the concept of supply and demand . Each student was having 200 Rs and if he/she finds no place to sit , he/she has to hand over the amount to other . As the game progressed the number of chairs decreased and the demand of the same increased which ultimately increased the cost of the chair to Rs 600, Rs 1200 ,.. and so on . Finally , the chair that costs Rs. 200 was now available for Rs.3000 at the end of the game . This activity helped the students to understand the Supply and demand laws as well as the curves . This activity was a part of teaching methodology for the course Industrial Management and Technology . TE-41 | |
| 2. | 27/6/19 | TE | Video lecture on microeconomics and Demand curve | -- | A video lecture was organized for the TE students to explain them the concept of microeconomics and Demand curve .Students watched the video and then an discussion was done so as to review about the concepts shown n the video . This activity was a part of teaching methodology for the course Industrial Management and Technology TE-20 | |
| 3. | 17/07/2019 and 27/08/2019 | TE | Electrical Installation, Maintenance & Testing (EIMT)- Video Lectures | -- | Students were first explained concept of earthing and terms like step potential and touch potential and then a video explaining these was shown. The video also showed what precautions to be taken in hazardous situations. | Electrical |



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| | | | | | <p>2. In the next video different methods of cable fault location was shown to students and</p> <p>3. Fabrication of pole mounted transformers and Filtration/ reconditioning of oil – an animated video was shown.</p> <p>TE students (17/07/2019- 42 students and 27/08/2019 - 43students</p> | |
| 4. | 22/07/2019 | TE | Electrical Installation, Maintenance & Testing (EIMT)- Brainstorming Activity | -- | <p>All students present in the class were asked to write anything that comes to their mind about maintenance and then the concept of maintenance was discussed.</p> <p>TE-27</p> | Electrical |
| 5. | 17/7/19 | TE | Self learning activity on MOSFET | | <p>Students are given topic of MOSFET-types, construction, working, output characteristics and transfer characteristics. They are asked to prepare notes and PPT on this topic. These notes and PPTs are verified for corrections in it. Then they presented this topic in the classroom. Questions are asked to verify the knowledge of the topic and understanding of the topic</p> <p>TE-46</p> | Electrical |
| 6. | 24/7/19 | TE | Self learning activity on IGBT construction and working. | -- | <p>Students are given topic of IGBT-construction, working, output characteristics and transfer characteristics. They are asked to prepare notes and PPT on this topic. These notes and PPTs are verified for corrections in it. Then they presented this topic in the classroom. Questions re asked to verify knowledge of the topic and understanding of the topic</p> <p>TE-45</p> | Electrical |



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| 7. | 17/10/19 | TE | Video Lecture | | <p>A video lecture was conducted for TE Electrical students on topic Operation of Chopper. It is the lecture of Dr. Debaprasad Kastha, Associate Professor, Dept. of Electrical Engg, Indian Institute of Technology, Kharagpur. This video explains the following Points,</p> <ol style="list-style-type: none">1. Classification of Chopper2. Four quadrant operation of Chopper3. Use of chopper for motoring and braking operation of DC Motor <p>TE- 46</p> | |
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VISITS

| Sr. No | Date | Class | Topic | Resource person | Module description | Department |
|--------|------------|-------|---|---|--|------------|
| 1 | 19/07/2019 | TE | Electrical Installation, Maintenance & Testing (EIMT)- Industrial Visit | MAHATRANSCO 220kV Parvati Substation | <p>The students got to walk through the substation while the Dy.Executive engineer Mr. Huse and his team guided and made students well versed with the different electrical equipments in the substation.</p> <p>Students were also briefed about the maintenance practices carried out in the substation as well as the earthing of the</p> | Electrical |



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| | | | | | substation. | |
| | | | | | Number of participants: Class: TE Electrical - No. of students: 50 and 6 staff members | |
| 2 | 01/10/19. | BE | Industrial Visit at 400 kV EHV MSETCL Substation Lonikand, Pune | -- | 400 kV substation at Lonikand is located at Pune Nagar road & is owned by Maharashtra State Electricity Transmission Company Ltd. It consists of five substations in one premise. Two 400 kV, two 220 kV & one 33 kV substation is located in one premise at Lonikand. It has two incoming lines from Parali& outgoing lines are to Padgha, Jejuri, & Hinjewadi 50 students & 5 staff members | Electrical |

EXPERT LECTURES

| S r. N o | Date | Class | Topic | Resource person | Module description | Department |
|-------------------|---------|-------|---------------------------------------|---|---|------------|
| 1 | 10/7/19 | BE | Expert Lecture on Project Guidance | DR. M. S. Kulkarni Retd . Professor in Electrical Engineering | The department of electrical engineering had arranged the expert lecture by Dr. M. S. Kulkarni for guidance to students for doing their project work . He discussed the following points : 1) Skills required to develop a good project. 2) Guidelines for selecting a project 3) Selection of topic for the project. | Electrical |



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| 2 | 23/7/19 | TE/BE | Strategic planning for the future technologies and industry expectations from fresh engineers “ | Mr. Sachin Chitapure Director , ACE OPERATIONS , PUNE Mobile No : 9689901584 | Mr. Sachin Chitapure Director , ACE OPERATIONS made his valuable time available to our institute and guided our TE and BE students about the “ Strategic planning for the future technologies and industry expectations from fresh engineers “ . It was indeed very helpful for the students as they got the detail information regarding the preparation, importance and scope of the automation courses and the career related to it . developments in the field of AUTOMATION . 46 TE students and 13 BE students | |
| 3 | 31/7/19 | TE | Expert Lecture on Topic – Disruptive Innovations. | Mr. Bhagawan Bhosale. DGM, Manufacturing, TATA Motors Ltd. Pune. | He explained about the sustainable innovations and non sustainable innovations by giving various examples. He also explained about how the industries are working to survive under these conditions. The roll of the R&D department in Innovations. He also explained about | |



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| | | | | | the roll of Engineers in development of Innovative techniques | |
| 4 | 25/9/19 | TE | EIMT- Expert Lecture TOPIC: Electrical Safety and legal provisions in Electricity Act | Mr. Ashok Borgaonkar Freelance Certified Energy Auditor, Power Consultant M-9960890100 Email: ashok.borgaonkar@gmail.com | 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). | Electrical |
| 5 | 03/10/19 | TE | Practical aspects of residential and commercial wiring | Mr. AnkitJaveri Project Manager New York Engineers Pune. M-9921269641 Email: ankitjaveri91@gmail.com | He explained the practical aspects of designing residential and commercial wiring, standard tables and codes used. Also he informed about the job opportunities as MEP (Mechanical Electrical and Plumbing) design engineer and the requisites for it. He also informed students about internships and job opportunities in his company. TE- 53 | Electrical |
| 6 | 04/10/19 | TE | Intellectual property rights | Mrs.Dipti Lele Trainer at ORH Development Pvt.Ltd | She briefed students about overview of the legal field in Intellectual Property and Cyberlaw. | Electrical |



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WORKSHOP

| Sr. No | Date | Class | Topic | Resource person | Module description | Department |
|-----------|----------------------------|-------|--|-----------------------------------|---|------------|
| 02 | 24.09.19 to 26.09.19 | SE | A Three Day Practical Oriented Workshop on Industrial Approach in Electronics. | Electronics Study Centre, Nashik. | <p>A three day practical oriented workshop was organized from 24.09.2019 to 26.09.2019, 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>55students</p> | Electrical |

EXTRA CURRICULAR ACTIVITIES

| Sr. No | Date | Class | Topic | Resource person | Module description | Department |
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|---|----------|----------|--|---|--|------------|
| 1 | 1/8/2019 | SE/TE/BE | Debate Competition | Mrs. V P Kuralkar and Mrs. N M Rao | Debate competition was conducted for students of SE, TE and BE class of Electrical Department under T&P cell. Students are given topics such as- Impact of democracy on India's growth, Is India ready for Electric Vehicles? Plastic ban : Environment VS Economy, Do we really need smart cities? | Electrical |
| 2 | 19/8/19 | | Discussion Forum on SCOPE OF ILLUMINATION ENGINEERING | : Mr. Virendra Borade (CEO , Ligftkraft) Mr. Sudhir Patil (CEO, Leap Infosys) Dr. Prakash Barjatiya (Governing body member ISLE) Mr. Prafulla Wadaskar (CEO, Vadactro) | The Following points were discussed : To develop an interest in illumination engineering an orientation session by industry person can be conducted where the students could be introduced to various opportunities as an illumination engineer. To make the students aware about the scope of illumination engineering seminars on latest technologies | Electrical |



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| 3 | 28/8/19 | SE | Electrofunda | The event was judged by Prof.P.P Mahajan , Prof.S. Bakre and Prof. . S.D Raste | Students of SE Electrical Engineering department of AISSMS Institute of Information technology demonstrated various fundamental laws and prepared prototype (working models) to explain the basic principles of electrical engineering such asFaday's LawsLenz's LawLaws of magnetism Ohm's LawEffects of Electric CurrentWorking principles of various motors etc Number of participates :26 | Electrical |
| 4 | 2/9/19-11/9/19 | SE/TE/BE | Energy Conservation Drive | -- | The Renewable Energy Club (REC) of department of Electrical Engineering, AISSMS IOIT had organized an "Energy Conservation Drive", wherein the students of the electrical department visited various Ganesh Pandals(Ganpati Mandals) in and around Pune and informed the people about energy conservation SE - 4 TE - 5 BE - 6 | Electrical |



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| 5 | 10/9/19 | SE/TE/BE | Group Discussion | | Topics for GD: 1.Should 75% attendance is made compulsory for engineering college students? 2.Increasing number of Engineering colleges is a boon to society. 3.Should we change present system of education? 15 students | Electrical |
| 6 | 11/9/19 | TE/BE | Technical Interview | Interview Committee: Prof. P P Mahajan Prof. Dr. Bahare S | Technical Interview session was organized under T & P activity on 11 th September 2019 for all students of TE & BE class of Electrical Engineering Department. Details of the event were as follows. TE/BE : 07 | Electrical |
| 7 | 26/9/19 | SE/TE/BE | Engineers day celebration | -- | Students organized the event . All the teaching staff were divided into groups and then various activities like technical dumb charades , identify the scientist , crosswords , etc were conducted . The event finally ended with the musical chair . | Electrical |



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|---|---------|----|---|---|--|------------|
| 5 | 7/10/19 | -- | Discussion on Super capacitors and chargers | <p>Mr. Ramasundaram Mr. Siddhartha Mane Designation/Organisation: Vice President India , OptiXtal India Energy solutions</p> <p>Research Engineer , OptiXtal India Energy solutions</p> | <p>Mr. Ramasundaram and Mr. Siddhartha Mane visited the college to discuss about the research areas</p> <p>Applications of Super capacitors and ultra capacitors in electrical field, electrical vehicle, Engine cranking .</p> <p>Fast charger for electrical vehicle charging .</p> <p>Currently they are working on extending battery life of E-Rickshaw batteries and super capacitor based engine cranking unit , remote monitoring data and tracking using mobile phone .</p> <p>They also visited the department and got an insight of the work done by the faculty members</p> | Electrical |
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2019-2020 SEM II
Curricular activities

| Sr. No | Date | Class | Topic | Resource person | Module description | Department |
|--------|----------|-------|-------------------------------------|-----------------|--|------------|
| 1. | 7/1/2020 | TE | Video lecture on transformer design | -- | A video lecture was organized for the TE students to explain them the concept of construction of transformers before taking the students for industrial visit . Students watched the video and then an discussion was done so as to review about the concepts shown in the video . This activity was a part of teaching methodology for the | Electrical |



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| | | | | | course Design of electrical machines . TE-40 | |
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VISITS

| Sr. No | Date | Class | Topic | Resource person | Module description | Department |
|--------|---------|-------|---|---|--|------------|
| 1 | 17/1/20 | SE/TE | Electrical machines /DEM industrial visit to Manisha Engineers Pvt . Ltd , Pune | Mr.S.T.Kulkarni (Gen Manager), | <p>The students of SE/ TE Electrical attended the visit for Sub- Electrical machines and Design of Electrical Machines. Students could observe the following-</p> <ul style="list-style-type: none">• Manufacturing process of 25 KVA to 2500 KVA distribution transformers• Details of Single Phase Special Designed Transformer• The design aspects of transformer related to core design and winding design were briefed to the students <p>The visit was beneficial for the students as they could practically see the detailed procedure of manufacturing of transformers .</p> | Electrical |
| 2 | 4/2/20 | BE | Ramelex Testing and Research Institute Pune | Mr. Devidas Godase TME +91(020)25291999 | The students gathered in the auditorium and were briefed about safety | |



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| | | | | tme@ramelex.com | <p>procedures to be followed.</p> <p>They were then taken to the testing division where they were briefed about different mechanical, chemical and electrical test carried out. They were shown various hardware's like dead ends, PA rods, etc. used on transmission line. Each of these were tested in their lab. The tests shown were Brinell Hardness test, Rockwell Hardness Test, Spectro-analysis of the material used like Aluminium, Tensile Strength test both horizontal and vertical, Electrical Resistance measurements of cable and temperature rise test were also shown.</p> | |
| 3 | 06/03/2020 | SE | Power System I Technical Visit at 132 kV Ganeshkhind Substation, Pune-16 | Mr. Mahesg Ghadage Deputy Engineer, 132 kV Ganeshkhind Substation, Pune. | Students of SE Electrical visited 132 kV Ganeshkhind Substation, Pune on 6th March 2020. Brief about the visit: | |



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| | | | | Contact No.7447440220 | Students gained knowledge about, <ul style="list-style-type: none"> • 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. | |
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EXPERT LECTURES

| Sr No | Date | Class | Topic | Resource person | Module description | Department |
|----------|---------|-------|---|---|---|------------|
| 1 | 27/1/20 | TE | Expert lecture and Demonstration on Electrical Safety | Mr.Mahesh Ghadge Designation/Organization: Deputy Executive Engineer, MSETCL-132kV Ganeshkhind Substation | As part of the Electrical Safety Week, AISSMS IOIT's Electrical Engineering Department carried out an Expert lecture and Demonstration on Electrical Safety on 27th Jan. 2020. The resource person for the same was Mr. Mahesh Ghadge-Deputy Executive Engineer MSETCL Ganeshkhind substation. He explained the importance of safety measures to be taken | Electrical |



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| | | | | | while working with electricity. He also demonstrated the use of different personal protective equipment. The activity was co-ordinated by Dr. S M Bakre under the guidance of the Head of the Department Mrs. A.D.Shiralkar and Principal Dr.P.B.Mane. | |
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WORKSHOP

| Sr · N o | Date | Class | Topic | Resource person | Module description | Departm ent |
|-------------------|--------------------------|-------|---|---|--|----------------|
| 02 | 09/01/2020 to 17/01/2020 | BE | One week workshop on PLC SCADA and Automation | Mr.D.V.Kulkarni Designation/Organizati on: Senior Training Officer, Industrial Automation,Hi Tech Training Scheme(An Indo German Project), Aunth ITI,Pune. | <p>In above mentioned one week workshop, on first two days instruction set was introduced and theory behind practical was elaborated to the students. Further from third to fifth day practical sessions were conducted in ITI, Aundh. Various projects carried out for government were demonstrated to students. Students were asked to do the project in a group of four to five students. Few programs were given individually.</p> <p>It was indeed a knowledgeable workshop for assessing their own skill level, competence and interests. This workshop helps students to reduce the gap between the theoretical & practice application. It was indeed knowledgeable</p> | Electrical |



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| | | | | | workshop from job interview point of view in Automation Sector. Also it makes the students aware of how automation using PLC plays important role for an electrical engineer. | |
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EXTRA CURRICULAR ACTIVITIES

| Sr. No | Date | Class | Topic | Resource person | Module description | Department |
|--------|---------|----------|------------------------------|--|---|------------|
| 1 | 13/2/20 | SE/TE/BE | Technical Paper presentation | Mr. Vijay Kumar Kamble Mrs. N M Rao | <p>The department of electrical engineering AISSMS IOIT PUNE had organized paper presentation competition for the students of SE/TE and BE . Paper on technical topics were submitted by the students and then out of those papers the selected papers were presented . Students presented the papers in front of the judges . According to the performance the prizes were given .The event was judged by Mr. Vijay Kumar Kamble (Assistant Professor, EED) and Mrs . Namrata Rao (Assistant Professor ,EED)</p> <p>Winners : 1st prize : Pranav Govekar , Prasad Waykole 2nd prize : Shubham Khaire ,</p> | Electrical |



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| | | | | | Pratiksha Desai | |
| 2 | 13/3/20 | SE/TE/BE | Tutorial Session (International) conducted under IE(I) during the 2nd IEEE International Conference on Emerging Smart Computing & Informatics (ESCI 2020) (12th -14th March 2020) | Dr.Omprakash Barure Director at BITC 2104 | The tutorial session was conducted with the help IE(I) under the 2nd IEEE International Conference on Emerging Smart Computing & Informatics (ESCI 2020) (12th -14th March 2020) Dr. Omprakash Barure , Director at BITC 2104 took the tutorial session . He explained about what actually industrial automation is all about . Industrial automation is the use of control systems, such as computers or robots, and information technologies for handling different processes and machineries in an industry to replace a human being. It is the second step beyond mechanization in the scope of industrialization. Advantages of Industrial Automation were also discussed . Various automation examples were also given and explained . | Electrical |



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| | | | | | <p>Some of the products were also explained during the session .</p> <p>Organized by : IE(I) students ' branch , Electrical Engg Department , AISSMS IOIT, Kennedy Road, Near RTO, Pune</p> | |
|--|--|--|--|--|--|--|

Title /Theme: Expert Lecture on Topic – Disruptive Innovations.

Date : 31/7/2019

Duration: 2 Hr

No of Students Participated: 45

Photographs with caption:





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Expert Lecture

Details:

Speaker: Mr. Bhagawan Bhosale.

Designation/ Organization: DGM, Manufacturing, TATA Motors Ltd. , Pune.

Report

Expert lecture was conducted on Topic Disruptive Innovations for BE Electrical Students under T&P cell.

The speaker was Mr. Bhagawan Bhosale, DGM, TATA Motors, Pune.

He explained about the sustainable innovations and non sustainable innovations by giving various examples. He also explained about how the industries are working to survive under these conditions. The role of the R&D department in Innovations.

He also explained about the role of Engineers in development of Innovative techniques.



Title /Theme: Expert Lecture on Project Guidance

Date : 10/7/2019

Duration: 1 hour

No of Students Participated: 54

Photographs with caption:



DR. M. S. Kulkarni delivering his talk.

Details:

Chief Guest/ Guest of Honor: NA

Designation:

Speaker: DR. M. S. Kulkarni

Designation/Organization : Retd . Professor in
Electrical Engineering

Speaker: NA

Designation/Organization:

Brief Report: The department of electrical engineering had arranged the expert lecture by Dr. M. S. Kulkarni for guidance to students for doing their project work .

He discussed the following points :

- 1) Skills required to develop a good project.
- 2) Guidelines for selecting a project
- 3) Selection of topic for the project.

Number of participates : BE-54

Organized by : Mrs. K. S. Gadgil

Attended BY : Mr. P. P. Mahajan , Mrs. K. S. Gadgil , Mr. S. V. Shelar



Title /Theme: Electrofunda Project Competition

Date : 28/8/19

Duration: 1 hour

No of Students Participated: 26 SE students

Photographs with caption:



Electrofunda photographs

Report

1. Students of SE Electrical Engineering department of AISSMS Institute of Information technology 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
 - Laws of magnetism
 - Ohm's Law
 - Effects of Electric Current
 - Working principles of various motors etc
2. The event was judged by Prof.P.P Mahajan , Prof.S. Bakre and prof . S.D Raste
3. Number of participates :26

Conducted by : Mrs. Vaishali Yawale



Title /Theme: Engineers day celebration

Date : 26/9/19

Duration: 1 hour

No of Students Participated: All the staff and 15 students

Photographs with caption:



Engineers day celebration

Report

Students organized the event . All the teaching staff were divided into groups and then various activities like technical dumb charades , identify the scientist , crosswords , etc were conducted . The event finally ended with the musical chair .

Organized by : Technical team and Mrs. V.A Yawale



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Date : 7/10/19

Duration: 3 hour

No of Students Participated: Staff

Photographs with caption:



Speaker: Mr. Ramasundaram

Mr. Siddhartha Mane

**Designation/Organization: Vice President India , OptiXtal India Energy solutions
Research Engineer , OptiXtal India Energy solutions**

Report

Mr. Ramasundaram and Mr. Siddhartha Mane visited the college to discuss about the research areas

1. Applications of Super capacitors and ultra capacitors in electrical field, electrical vehicle, Engine cranking .
2. Fast charger for electrical vehicle charging .

Currently they are working on extending battery life of E-Rickshaw batteries and super capacitor based engine cranking unit , remote monitoring data and tracking using mobile phone .

They also visited the department and got an insight of the work done by the faculty members .

Conducted by : Mrs. Vaishali Yawale



Title /Theme: A Three Day Practical Oriented Workshop on Industrial Approach in Electronics.

Date : 24.09.2019 to 26.09.2019

Duration: 3 days

No of Students Participated : 55 students & 2 staff members attended the Workshop

Photographs with caption:



Inauguration of the Workshop



Students testing the components

Speaker: Sanjay chaudhari

Designation/Organization: Electronics Study Centre, Nashik.

Report

A three day practical oriented workshop was organized from 24.09.2019 to 26.09.2019, organized by Electrical Engineering Department, AISSMS, IOIT, Pune, Conducted by Electronics Study Centre, Nashik. 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.

Conclusion : It was indeed a knowledgeable workshop for assessing their own skill level, competence and interests. This workshop help the students to reduce the gap between the theoretical & practical Knowledge & also the gap between industry & the institute and show them how their specific assets correspond to various professions.

No of Participant : 55 students & 2 staff members attended the Workshop