

Department Activities (2019-2020)

➤ Short Term Training Programme (STTP)

Electrical department has organized a 5 days STTP on “TEACHING PEDAGOGIES FOR ENGINEERING EDUCATION” from **June 24th– 28th, 2019**. The various speakers of the Programme are as follows:

| Date | Time | Topic | Speaker |
|---|-------------------------|---|---|
| Day 1 24/06/2019 Monday | 9.00 a.m. -9.30 a.m. | Registration | |
| | 9.30 a.m – 10.00 a.m | Breakfast | |
| | 10.00 a.m. -11.00 a.m. | Inauguration | |
| | | Introductory speech | Dr. Suresh K. Ukarande Principal, (KJSIEIT) Dean I/c Faculty of Science & Tech., Mumbai Univ. |
| | 11.30a.m.-1.00 p.m. | Session 1 What is Active Learning? What are different AL strategies? | Dr. Sameer Sahasrabudhe Sr. Research Scientist IIT Bombay |
| | 1 p.m.- 2 p.m. | Lunch Break | |
| | 2 p.m.- 3.30 p.m. | Session 2 Visual design principles in presentations | Dr. Sameer Sahasrabudhe Sr. Research Scientist IIT Bombay |
| | 3.30 p.m. | Tea | |
| Day 2 25/06/2019 Tuesday | 8.45 a.m. - 09.15 a.m | Tea and Refreshment | |
| | 09.15 a.m. – 10.45 a.m. | Session 1 Writing Learning objectives | Dr. Yogendra Pal Sr. Research Scientist IIT Bombay |
| | 11 a.m. - 12.30 p.m. | Session 2 Writing educational scripts | Dr. Yogendra Pal Sr. Research Scientist IIT Bombay |
| | 12:30 p.m.-1:30 p.m. | Lunch Break | |
| | 1:30 p.m.- 3:00 p.m. | Session 3 Innovative Teaching Techniques | Dr. S.S. Rathod Dean Academics, Prof. & Head, Dept. of Electronics Engineering, SPIT |
| | 3:00 p.m.- 3:15 p.m. | Tea break | |
| | 3:15 p.m.- 4:45 p.m. | Session 4 Innovative Teaching Techniques | Dr. S.S. Rathod Dean Academics, Prof. & Head, Dept. of Electronics Engineering, SPIT |
| 8.45 a.m. - 09.15 a.m. | Tea and Refreshment | | |
| | 09:15am- 10:45 a.m. | Session 1 Think-Pair-Share (TPS): What & How | Dr. Gargi Banerjee Sr. Research Scientist, IIT Bombay |

| | | | |
|---|-------------------------|---|--|
| Day 3 26/06/2019 Wednesday | 11.00 a.m.-12:30 p.m. | Session 2 Hands-on activity on TPS creation | Dr. Gargi Banerjee Research Scientist, IIT Bombay |
| | 12.30 p.m.-1.30 p.m. | Lunch Break | |
| | 1.30 p.m.-3.00 p.m. | Session 3 Choosing appropriate visualizations | Dr. Gargi Banerjee Research Scientist, IIT Bombay |
| | 3.00 p.m.- 3.15 p.m. | Tea break | |
| | 3.15 p.m.- 4.30 p.m. | Session 4 Teaching with visualizations | Dr. Gargi Banerjee Research Scientist, IIT Bombay |
| Day 4 27/06/2019 Thursday | 8.45 a.m. – 9 .15 a.m. | Tea and Refreshment | |
| | 09:15 a.m. – 10.45 a.m. | Session 1 Mentoring and Counseling students | Prattusha (Counselor, FCRIIT) |
| | 11.00 a.m. - 12.30 p.m. | Session 2 Effective Communication for Knowledge Dissemination | Rohini Chandramouli Assistant Professor (NMIMS) |
| | 12.30 p.m.- 1.30 p.m. | Lunch Break | |
| | 1.30 p.m.-2.30 p.m. | Session 3 Role of Teachers in Research | Dr.Sushil Thale (FCRIIT, Vashi) |
| | 2.30 p.m.- 3.30 p.m | Session 4 Necessary reforms in Examination and Evaluation Techniques | Dr. S.M. Khot Principal (FCRIIT, Vashi) |
| | 3.30 p.m | Tea | |
| Day 5 28/06/2019 Friday | 9.00 a.m. – 9.30 a.m. | Tea and Refreshment | |
| | 9.30 a.m. -11.00 a.m. | Session 1 Stress Management for Teachers | Susheelaji (The Yoga Institute, Santacruz) |
| | 11.30 pm – 12.30 pm | Session 2 Case study on Flipped class room | Prof. Megha K. (FCRIIT, Vashi) |
| | 12.30 p.m.-1.30 p.m. | Lunch Break | |
| | 1.30pm - 2.30 pm | Session 3 Various levels in Bloom’s Taxonomy | Dr. Milind Shah (FCRIIT) |
| | 2.30 pm - 3.00 pm | Test | |
| | 3.00 pm | Valedictory function | |

➤ Vidyut

Electrical Engineering department strives hard to keep its student aware about the recent developments in the electrical engineering field. People with thorough knowledge and experience in industries are invited to share their knowledge and experience with the students. ‘VIDYUT’ is one day departmental seminar which provides an excellent platform for the students to interact with the people with an industrial background.

| Sr. No | Speaker | Topic | Date |
|---------------|--------------------------|----------------------------|-----------------------------|
| SH2019 | | | |
| 1 | Mrs. Ann Mathew | Employability skills | 20 th July 2019. |
| 2 | Mr. Chand Arunkumar | Professional Ethics | 20 th July 2019. |
| 3 | Mr. Chand Arunkumar | Career aspects in PSU/Govt | 20 th July 2019. |
| FH2020 | | | |
| 4 | Mrs. Rohini Chandramouli | Communication skills | 7th March, 2020 |
| 5 | Mr. Saurabh Sinha | Entrepreneurship skills | 7th March, 2020 |
| 6 | Mr.N.N. Pisharody | Industrial Safety | 7th March, 2020 |



Seminar on “Employability skills”



Seminar on “Professional Ethics”



Seminar on “Career aspects in PSU/Govt”



Seminar on “Industrial Safety”



Seminar on “Communication Skills”



Seminar on “Industrial Automation and Introduction to Industry 4.0”

➤ **Industrial Visit**

Students of 2nd, 3rd and final year are taken to one-day industrial visit to various industries to understand practical aspects of various subjects they study in the semester. The companies visited are as follows:

| Sr. No | Semester | Name and address of the Industry | Date of visit | No. of Students Participated |
|--------|----------|--------------------------------------|---------------|------------------------------|
| 1 | SEM IV | Shrihans Electrical Pvt. Ltd, Taloja | 11/01/2020 | 64 |
| 2 | SEM VI | MSLDC, Kalwa | 07/03/2020 | 74 |
| 3 | SEM III | Gas Turbine Power Station, Uran | 20/08/2019 | 56 |
| 4 | SEM V | L&T , Mahape | 01/08/2019 | 75 |
| 5 | SEM VII | Bosch Limited, Goa | 09/08/2019 | 76 |



Visit to Shrihans Electrical Pvt Ltd, Taloja



Visit to MSLDC , Kalwa



Visit to GTPS, Uran



Visit to BOSCH, Goa

Department Activities (2018-19)

➤ Short Term Training Programme (STTP)

Electrical department has organized a 5 days STTP on “**Electric And Hybrid Electric Vehicle Technology**” from **June 18th -23rd , 2018**. The various speakers of the Programme are as follows:

| Date | Topic | Speaker |
|----------------------------------|--|--|
| Day 1 18/06/2018 Monday | Key note speech on Modern Transportation Electrification and Autonomous E-mobility:Recent Trends and Future Challenges | Dr.Sheldon Williamson Professor and NSERC Canada |
| | Innovative Application-driven industry Collaboration and Research:Future Markets for E-transport and Mobility | |
| Day 2 19/06/2018 Tuesday | Battery Management Experiments on Batteries | Dr.Ramesh (Sinsil Ltd) |
| | Hybrid Electric Vehicle Technology | Mrs.Poornima Rao (FCRIT) |
| | EV-HEV in Indian Perspective | Dr.Sushil Thale (FCRIT) |
| | Control of Battery and Ultracapacitor in Electric Vehicle | Mr.Ramachandra Bhosale (IIT Bombay) |
| Day 3 20/06/2018 Wednesday | Basic concepts of Automobile Engineering | Mr.Aqleem Siddiqui (Mech-FCRIT) |
| | Role of New Transportation in Demandside Management | Mr.Mahendra Rane (FCRIT) |
| | Introduction to Electric Vehicle Technology | Mrs.Bindu R. (FCRIT) |
| | Tractive Forces in Transportation Engineering | Mrs.Rashmi Kale (FCRIT) |
| Day 4 21/06/2018 Thursday | Design Methodology of Solar Electric Vehicle | Mr.Akshay M. (FCRIT) |
| | Renewable Energy Interface Demonstration | Dr.Sushil Thale, Mrs.Bindu R. (FCRIT) |
| | Opportunities and Issues in Present Transportation Scenario (Li-ion Battery) | Dr.R.D.Kulkarni (BARC) |
| Day 5 22/06/2018 Friday | Charging Infrastructure for EV | Dr.Sushil Thale (FCRIT) |
| | Future Trends /Technology of HEV | Mr.Santosh Trimbake (Ex-IES) |
| Day 6 23/06/2018 Saturday | Fast Charging Stations for Electric Vehicle | Mr.Arun (IIT Bombay) |
| | Drives System in Electric Vehicles | Mr.Prajof (IIT Bombay) |

➤ Vidyut

Electrical Engineering department strives hard to keep its student aware about the recent developments in the electrical engineering field. People with thorough knowledge and experience in industries are invited to share their knowledge and experience with the students. ‘VIDYUT’ is one-day departmental seminar which provides an excellent platform for the students to interact with the people with an industrial background.

| Sr.No. | Speaker | Topic |
|---------------|---------------------------|--|
| SH2018 | | |
| 1 | Mr. Rahul Gopal Rane | A Way to Sustainable Growth |
| 2 | Mr. Seshail Kamanna | Artificial Intelligence in Customer Relationship Management |
| 3 | Mrs. Bhagyalakshmi Nair | Engineer & Society |
| 4 | Dr. Ranjeev Manrao | Professional Ethics, Values, Belief Systems & Culture |
| FH2019 | | |
| 1 | Mr.N.N.Pisharody | Safety Philosophy of Nuclear Power Plant, Fundamentals of Industrial safety and Accident Prevention” |
| 2 | Ms. Sumita Dey Chatterjee | Soft Skills |
| 3 | Mr. Sriram Athri | Healthy Minds |



Industrial Visit

Students of 2nd, 3rd and final year are taken to one-day industrial visit to various industries to understand practical aspects of various subjects they study in the semester. The companies visited are as follows:

| S.No. | Company visited and purpose | Date | Resource Person | No. of students |
|-------|--|----------|---|-----------------|
| 1 | <ul style="list-style-type: none"> Dol Motors Pvt Ltd, Rabale Practical understanding of motor construction | 02/2/19 | L.M Joshi(Vice president Manufacturing) | 74 |
| 2 | <ul style="list-style-type: none"> MSLDC, Kalwa Understanding of power transmission and distribution system | 02/2/19 | Vasant Pande(Chief Engineer-MSLDC) | 73 |
| 3 | <ul style="list-style-type: none"> LnT Switch gear and Training Centre, Pune Practical understanding of various aspects related to design and operation of electrical switch gears | 31/01/19 | Reena Dube (Assistant Manager Training) | 63 |
| 4 | <ul style="list-style-type: none"> BOSCH Packaging Technology Division, Goa Packaging Industry | 17/8/18 | Neon M (TPO, Fr.Agnels, Goa) | 67 |
| 5 | <ul style="list-style-type: none"> Dol Motors Pvt Ltd, Rabale Practical understanding of motor construction | 28/8/18 | L.M Joshi(Vice president Manufacturing) | 77 |
| 6 | <ul style="list-style-type: none"> Gas Turbine Power Station, Uran Practical understanding of Operation of Gas Turbine Power Station | 21/7/18 | Vijay. Y. Mahulkar Superintending Engineer, MAHAGENCO | 60 |



Industrial visit to L&T, Pune



Industrial visit to Dol Motors Pvt Ltd, Rabale

Department Activities (2017-18)

➤ Short Term Training Programme (STTP)

Electrical department has organized a 5 days STTP on “Reliability in Electrical and Electronic Systems” from June 27th– to July 1st, 2017. The various speakers of the Programme are as follows:

| Date | Topic | Speaker |
|------------|---|-------------------------------------|
| 27/06/2017 | Key note speech on Importance of Reliability Analysis in Engineering Applications | Dr.H.A.Mangalvedekar (VJTI) |
| 27/06/2017 | Industry perspective in reliable system design | Mr. Manish Punjabi |
| 27/06/2017 | Emergence of Renewable energy and Reliability issues | Dr Sushil Thale (FCRIT, Vashi) |
| 28/06/2017 | Introduction to Reliability Engineering | Prof. Aqlim Siddiqui (FCRIT, Vashi) |
| 28/06/2017 | Power System Reliability | Dr. Bindu S (FCRIT, Vashi) |
| 28/06/2017 | Reliability in Project Management | Mrs. Poornima Rao (FCRIT, Vashi) |
| 29/06/2017 | Reliability in Power system protection | Dr. Swati Lavand (SPCE) |
| 29/06/2017 | Applications of Reliability in Electronics systems | Dr. Santhosh (BARC) |
| 29/06/2017 | Design Aspects of Power System Infrastructure: Regulatory and policy issues | Prof. Totre |
| 30/06/2017 | Smart grid Cyber Security and Reliability | Dr. Faruk Kazi (VJTI) |
| 30/06/2017 | Power Quality and Reliability | Dr. Sincy George (SFIT) |
| 30/06/2017 | Applications of Reliability in Interdisciplinary Engineering fields | Dr. V. Gopika Vinod (BARC) |
| 01/07/2017 | Reliability in Power Electronics Systems | Dr.Rupesh Wandhare |

➤ Vidyut

Electrical Engineering department strives hard to keep its student aware about the recent developments in the electrical engineering field. People with thorough knowledge and experience in industries are invited to share their knowledge and experience with the students. 'VIDYUT' is one-day departmental seminar which provides an excellent platform for the students to interact with the people with an industrial background.

| Date | Topic | Speaker | No. of students |
|------------|--|--|-----------------|
| 24/02/2018 | Environmental sustainability | Dr.Ivaturi Rao, Head-Corp Environment and Climate change, Tata power company Ltd | 63 |
| 24/02/2018 | Electrical Safety | Mr.M.M. Patro, Additional Chief Engineer, NPCIL,Mumbai | 63 |
| 09/09/2017 | Individual and Team | Mr.Swapnil Tulsankar, Pidilite Industries Ltd | 72 |
| 09/09/2017 | Transducers and Industrial Measurement | Mr.Omprakash Barure, Bajeshree Instrumentation Trainers and consultants | 72 |
| 09/09/2017 | Entrepreneurship Development | Mr.Prasad Menon Asst Professor, FCRIMS, Vashi | 74 |
| 09/09/2017 | Power System Dynamics, Stability and Control | Dr.S.R.Wagh, VJTI Matunga | 74 |

➤ Industrial Visit

Students of 2nd, 3rd and final year are taken to one-day industrial visit to various industries to understand practical aspects of various subjects they study in the semester. The companies visited are as follows:

| S.No. | Company visited and purpose | Date | Resource Person | No. of students |
|-------|---|----------|--|-----------------|
| 1 | <ul style="list-style-type: none"> Industrial Visit to Saini Electricals Practical aspects of Electrical drives | 07-03-18 | Jaipreet Singh Saini Head - Marketing | 81 |
| 2 | <ul style="list-style-type: none"> Industrial Visit to Traction Division, Sanpada Practical understanding of various aspects related to electric traction | 03-03-18 | N.E. Bhagwat Sr. Section Engineer | 65 |
| 3 | <ul style="list-style-type: none"> Industrial Visit to Shrihans Electricals Pvt. Ltd. Practical overview on Construction, Design & Testing of Transformers & Reactors | 03-03-18 | Anjill Arora Director Operations | 68 |
| 4 | <ul style="list-style-type: none"> Industrial Visit to Bosch-Verna Packaging Industry | 28-07-17 | Neon M (TPO, Fr.Agnels, Goa) | 76 |
| 5 | <ul style="list-style-type: none"> Industrial Visit to DOL MOTORS Pvt. Ltd. Practical aspects of Construction, | 05-08-17 | A.S. Dandekar (Manufacturing Head) | 79 |

| | | | | |
|---|---|----------|---|----|
| | Design & Testing of Induction Machines | | | |
| 6 | <ul style="list-style-type: none"> Industrial Visit to Uran Power Station Practical understanding of Operation of Gas Turbine Power Station | 18-08-17 | Vijay. Y. Mahulkar Superintending Engineer, MAHAGENCO | 78 |



Industrial visit to Bosch, Goa

➤ **Industry advisory board meeting**

Industry Advisory Board Meeting was held on 17/2/2018, following are the members attended from industry

Industry members: Mrs.Dhanashree Vyawahare
SR. EE engineer, Electrical Design Group, NPCIL
O: 25992141, R: 25570613, M: 9833238025

Mrs.Anjali Ranade
Dy General Manager: Design, Motor Division
Bharat Bijlee Limited

Institute members: **Dr.S.M.Khot(Principal)**
Dr.Bindu.S(HOD)
Dr.Susheel Thale(Professor, Dean R &D)
Mrs.Mini Rajeev (Associate Professor)

Dean (R &D) Prof. Dr. Susheel Thale appraised the members about the policy currently adopted by the institute for tie up with industries in the form of funded research projects, product development and pure consultancy. Every member agreed and inferred on following aspects discussed in detail.

- Tie up with industries for internship of faculty to improve the industry oriented teaching by faculty.
- Tie up with industries for internship of students to improve their skills and employability.
- Industry support for research based projects for effective utilization of available resources.
- Emphasis on improving the soft skills of students.
- Applications and Follow up of project proposals under DST scheme.
- Concentrate on publicity of strengths of the Institute through websites and brochures as the IAB members were quite impressed about the strengths and resources of the department and Institute.