

Faculty attending FDP/Workshops/STTPs at reputed Institutes and Industries

Increasing internationalization in teaching is strongly supported by the Indian education sector and is considered vital for Indian institutions in developing India's capacity in research and innovation, driving up India's institutional ranking and increasing the quality of teaching and learning. Thus, enhancing the academic and intellectual environment in the institutions by providing faculty members with ample opportunities to pursue research and also to participate in seminars / conferences / workshops has become vital for developing nations like India. Participation in such programmes would enable faculty members to update their research and pedagogical skills. Higher education institutions are starting to adapt themselves and demand from students enrolled for skills. Our Department of Electrical and Electronics Engineering aims in equipping faculty members with required skills and industry exposure to make the industry ready graduates. The aim of Faculty Development Program (FDP) is attaining sustainable development and achieving higher growth rates which could be enabled through creation, transmission and dissemination of knowledge. Our department faculty members are actively participating in FDPs, Seminars workshops / Short term courses etc. with high interest. Faculty members prefer to attend FDP, Seminar, and Workshop etc. at reputed institutes such as Indian Institute of Technology, Delhi (IITD), Indian Institute of Technology, Madras (IITM), National Institute of Technology, Tiruchirapalli (NITT), National Institute of Technology, Calicut (NITC) etc. and industries such as NEODWAY ACADEMY, NLP Training Institute and L&T etc. The following table lists the number of programmes such as FDP / Workshop & STTP attended by our faculty members in past 3 years.

S. No	Year	No. of Programmes Attended FDP / Workshop/ STTP
1.	2014-15	61
2.	2015-16	76
3.	2016-17	98

Peer Enablement Program

As an outcome of attending FDP at various industries/ Institutes, our department faculty members are very enthusiastic in sharing their experience and knowledge gained during the FDP among their fellow colleagues. To support this, the department organizes faculty peer enablement on every Wednesday during 4.00 PM to 5.00 PM in which faculty members will share their knowledge and ideas on the topic of program they have attended. Further, the contacts of eminent person from reputed industries / institutes established while attending such FDPs/STTPs and they are invited as resource persons, while organizing events in our department. The benefits of peer enablement include:

- Increase in self-esteem, and responsibility.
- To get exposed to recent technological advancements.
- To enhance the Technical knowledge in domain areas of interest.
- Promotion of faculty-faculty interaction.
- Exposure to and an increase in understanding of diverse perspectives.
- Preparation for real life social and employment situations.
- To enhance innovations in teaching - learning process.

S. No.	Year	No. of Programmes presented
1.	2013-14	6
1.	2014-15	10
4.	2015-16	2
5.	2016-17	11

Value Added Courses

Anna University curriculum and syllabi does not comply completely with industry requirements. Hence, there is a gap identified in the curriculum. To fulfill these gaps, various value addition courses with exposure to technical software packages, recent trends in the field of Electrical and Electronics Engineering etc. are being identified to cater the needs of industry. Hence, to make our students as industry ready graduates, the Department of Electrical and Electronics Engineering offers the following Value added courses for II, III and IV year students. The tabulation below shows the various Value Added Courses conducted during the past two years (academic year 2015-16 & 2016-17).

S.No	Name of the Value Added Course	Name of the Coordinator	Association with any Company	Certification by	No. of Hours	No. of students registered	No. of students successfully completed
1.	MATLAB	Mr.A.Karuppasamy	-	EEE Department	40	38	36
						34	34
						27	27
2.	SCILAB	Ms.J.Aswini	IIT Bombay Spoken Tutorial	IIT Bombay Spoken Tutorial	22	27	27
						30	26
3.	AUTOCAD [ECAD]	Ms.G.Saranya Devi	Practical technologies	Autodesk, USA	40	34	34
						20	Ongoing
4.	RTL Design using Verilog	Mr.M.Sudalaimani	IEEE Blended Learning	IEEE	40	25	24

Our students have also attended various Value Added Courses organized by other departments in our institution. The tabulation below shows the details of other Value Added Courses undergone by our EEE students.

S.No	Name of the Value Added Course	Name of the Coordinator	Association with any Company	No.of students registered
1.	Cyber Security	Mrs.Manommani	IBM	6
2.	Cloud Computing	Mrs.Manommani Mrs.M.Chengathir Selvi	IBM	4

E-SHOTS

The Department of EEE has started to release its 1st edition of News letter named E-Shots from January, 2015 on a monthly basis. Later, it was transformed into quarterly basis since April 2015. The news letter includes various contents such as technical articles related to Electrical and Electronics Engineering, GATE corner (GATE question cum answer), events organized in the department, Faculty and Student achievements. Eleven editions of ESHOTS have been released so far. The following table shows the editorial crew for all the editions published.

Edition & Issue	Year & Month	Editorial Crew
First Edition, Issue 1	January, 2015	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Dr. S. Nagalakshmi, ASP/EEE Ms. D. Jeya Priyanka, AP/EEE <u>STUDENT CO-ORDINATOR</u> Mr. P. Vasanth, EEE
Second Edition, Issue 2	February, 2015	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Dr. S. Nagalakshmi, ASP/EEE Ms. D. Jeya Priyanka, AP/EEE <u>STUDENT CO-ORDINATOR</u> Mr. P. Vasanth, EEE Ms. R. Reenu, EEE
Third Edition, Issue 3	March, 2015	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Dr. S. Nagalakshmi, ASP/EEE Ms. D. Jeya Priyanka, AP/EEE <u>STUDENT CO-ORDINATOR</u> Mr. P. Vasanth, EEE

Fourth Edition, Issue 4	April, May, June, 2015	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Dr. S. Nagalakshmi, ASP/EEE Ms. D. Jeya Priyanka, AP/EEE <u>STUDENT CO-ORDINATOR</u> Mr. P. Vasanth, EEE
Fifth Edition, Issue 5	July, August, September, 2015	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Dr. S. Nagalakshmi, ASP/EEE <u>CO-EDITOR</u> Er. M, Suganya, AP/EEE <u>STUDENT CO-ORDINATOR</u> Ms. S. Pavithra, EEE
Sixth Edition	October, November, December, 2015	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Dr. S. Nagalakshmi, ASP/EEE <u>CO-EDITOR</u> Er. M, Suganya, AP/EEE
Seventh Edition, Issue 6	January, February, March, 2016	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Dr. S. Nagalakshmi, ASP/EEE <u>CO-EDITOR</u> Er. M. Suganya, AP/EEE
Eighth Edition, Issue 7	April, May, June, 2016	<u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE <u>EDITOR</u> Ms. P. Amritha Priscilla, AP/EEE Mrs. M. Gokila, AP/EEE

Ninth Edition, Issue 8	July, August, September, 2016	<p><u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE</p> <p><u>EDITOR</u> Ms. P. Amritha Priscilla, AP/EEE Mrs. M. Gokila, AP/EEE</p>
Tenth Edition, Issue 9	November, December, 2016, January 2017	<p><u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE</p> <p><u>EDITOR</u> Ms. G. Saranya Devi, AP/EEE</p> <p><u>STUDENT CO-ORDINATOR</u> Ms. C. Amreetha, EEE Mr. B. Arun, EEE Mr. A. ManikandaGokul, EEE Ms. T. Nanthini, EEE</p>
Eleventh Edition, Issue 10	February, March, April, May, 2017	<p><u>CHIEF EDITOR</u> Dr. S. Kalyani, HoD/EEE</p> <p><u>EDITOR</u> Ms. G. Saranya Devi, AP/EEE</p> <p><u>STUDENT CO-ORDINATOR</u> Ms. C. Amreetha, EEE Mr. B. Arun, EEE Mr. A. ManikandaGokul, EEE Ms. T. Nanthini, EEE</p>

Mini Project Work

Mini project paves the way for the students to initiate their knowledge on stepping into practical application of core concepts. Students feel this practice as a mentoring to carry out their final year project work. Also, it is found that students get an opportunity to experiment their practical knowledge which helps them to greater extent for doing their final year project work. The progress of the work is regularly monitored by conducting the zeroth review and final review. The titles of a few mini-projects works carried out by 2013-17 batch students during their III year is as follows:

1. Greenhouse using Internet of Things
2. High efficiency Three Level DC-DC SEPIC Converter of Constant Applications
3. Wireless Mobile Battery Charger
4. Brake Failure Indicator
5. Power Generation through Foot Steps
6. Pulse Width Modulation using Microcontroller
7. IOT based Underground Cable Detection System
8. Wireless Power Transmission using Class- E Amplifier from Solar Input
9. Automatic Street Lightning System
10. Android Operated Intelligent 230 V AC Light Dimmer
11. Combination of OHP and Projector
12. LDR based Magical Eye Controlled Safe - Guard System
13. Water Level Indicator using Sensor
14. Hidden Active Mobile Phone Detector
15. Home Automatic System using Internet of Things
16. Invisible Broken Wire Detector
17. Intelligent Locking System
18. Wireless Power Transmission

Mini-Project Contest

In order to create an enthusiastic environment in carrying out the mini project, project contests are conducted every year under the banner of EEE association. Our students actively participate in this contest and their performance is evaluated and assessed by Jury members. The best three projects will be awarded with a memento and certificate of appreciation during the Valedictory function of EEE association.

Knowledge Today Board

An investment in the knowledge pays the best interest. It helps to improve the student's technical knowledge, skills on problem solving and verbal reasoning. The multiple choice questions in technical, aptitude / verbal are posted every day morning before 9.00 AM in the knowledge today board. Students provide the answers with explanations for the questions in a sheet of paper and drop it in a box which is next to the board. To encourage the students to actively participate in Knowledge Today activity, a small memento is awarded to those who consistently participate in this activity, during valedictory function of EEE association at the end of the every semester.

13.07.17

1) Calculate the Instantaneous & Avg. Power absorbed by the passive linear Network

Sinusoidal Source

 $\xrightarrow{i(t)}$
 $\xrightarrow{v(t)}$
Passive linear Network

when, $v(t) = 120 \cos(377t + 45^\circ)$ V
 $i(t) = 10 \cos(377t - 10^\circ)$ A

2) A train of 100 m long is running at the speed of 30 km/hr. Find the time taken by it to pass a man standing near the railway line.


3) If P denotes +, Q denotes -, R denotes X, S denotes ÷ which of the following is correct?

a) 36R458Q7P4 = 10
 b) 16R12P49S7Q9 = 200
 c) 32S8R9 = 160Q12R12
 d) 8R8P8S8Q8 = 57

12/07/17 Answers

1) $R_N = 14\Omega, I_N = 1A$
 2) 2490, 4150
 3) 164576

DROP YOUR ANSWER



The following students have been rewarded for their active participation in the Knowledge Today activity in the academic year 2016-17.

S.No	Students Name	Year/Branch
1.	P.R. Gokul	III-EEE
2.	C.S.Rajasekar	III-EEE

Periodic meeting

A periodic meeting helps to keep track of works and complete the works on time. It also promotes coordination and communication among the team. Continuous meeting and their reviews promotes the quality of teaching- learning process and paves the way for continuous improvements. The meetings tag on the following rules.

- Don't be late
- Be prepared
- Listen to each other
- Respect each other
- No humor at anyone else's expenses
- No mobile phone
- No sideline discussions

The following table figure out the different meetings conducted in the Department of Electrical and Electronics Engineering.

S. No.	Details of meeting	Frequency of meeting	Target Audience	Convened by
1.	Department Faculty Meeting	Once in 15 days	All the faculty members of EEE Department	HoD
2.	Student Representative and Student Placement Coordinator Meeting	Once in 15 days	Students Representatives, SPC student and faculty members, HoD	HoD
3.	Project Review meeting	Monthly once	All the faculty members of EEE Department and Students of final year	Project Coordinator
4.	Mentor- Mentee meeting	Once in a week	Mentors and their mentees	Mentor
5.	Quality Improvement Committee meeting	Once in 6 months	HoD and QIC faculty & student members	QIC Coordinator
6.	Programme Assessment Committee meeting	Once in a year	PAC members	PAC Coordinator
7.	Events follow-up meetings	As when required	Faculty and student coordinators	Event Coordinator
8.	Academic Review meeting	As when required	Chairperson and course coordinators	Chairperson

Club Activities

The Department of Electrical and Electronics Engineering initiated two clubs in the name of Green Energy club and Electronics club and has been inaugurated in the 15th July, 2017. The Electronics Club enlightens to nurture engineering maturity by giving practical and hands on exposure. It aims to fill in the void of Electronics hobbyists in the institute by providing a platform where the theory learnt in classes can be applied to real world problems. Green Energy Club mainly concentrates in creating awareness regarding the importance of Energy Conservation and the practices to be followed to conserve energy. It serves as the common platform for students to come together and turn their ideas into models. A group of energy conscious students with the support of faculty decided to start a formal Club that would make awareness to energy awareness and innovative ideas to implement to create green campus. The various activities like workshop, guest lecture, Seminar and hands-on training etc., have been planned through club initiation.

