



# MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthalkuppam, Madagadipet, Puducherry - 605 107

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### NEWSLETTER- (November 2017 - March 2018)

#### About the Department:

The Department was started in the year 2008 with an objective of creating a leader in engineering education and research with the application of knowledge for uplifting the society globally. Initially, the Department was started with an intake of 60 students and later it was increased to 120 students in the year 2011. The Department inaugurated IEEE students' chapter in the year 2012. The faculty members are consistently doing well in teaching and research activities. The Department had well established and equipped laboratories like Electrical Machines Lab, Power Electronics Lab, Power System Simulation Lab, Microprocessor Lab & Measurements and Instrumentation Lab with equipment cost of Rs. 65 Lakhs. The Department provides exposure to the students with hands-on experience on various Electrical Engineering subjects to face the challenges of the modern corporate world and to mould them as responsible citizens of the country with a willingness to serve the society.

The Department established internal Library with 400 titles and IEEE volumes for the welfare of the Faculty members and students.

#### VISION

To create comprehensive electrical engineers to meet up the growing technological demands of the society.

#### MISSION

- To impart high quality education to help the students hone their professional skills.
- To improve the competencies of students and faculties on contemporary technologies through continuous improvement programs.
- To imbibe the spirit of innovation and entrepreneurship among the students.
- To undertake research on frontier areas of electrical and electronics engineering.

#### Program Educational Objectives (PEOs)

- Graduates will have the ability to demonstrate skills in developing innovative ideas, and in providing effective solutions to complex engineering problems thereby being productive and participative global citizens

- Our graduates will have the ability and confidence to pursue higher education or exhibit professionalism in the career or take up entrepreneurial accomplishments.
- Our graduates will have the technical competency to involve in multidisciplinary research within the suitable technological, global, societal, ethical, economical, environmental and organizational context.
- Our graduates will engage themselves in life-long learning thereby keeping themselves abreast of the contemporary issues.

#### Program outcomes (POs)

POs	DESCRIPTION
PO1	An ability to apply the knowledge of mathematics and engineering fundamentals to provide solutions to complex Electrical Engineering problems
PO2	An ability to identify and analyse the problems on electrical engineering, and formulate the solutions appropriate to the problem through structured approach
PO3	An ability to design and develop software solutions to the problem with due considerations on socio-economical and environmental sustainability
PO4	An ability to design and conduct experiments, analyse and interpret data to provide valid conclusions and recommendations.
PO5	An ability to use appropriate techniques and adapt modern electrical engineering simulation tools to solve intricate engineering problems
PO6	Apply logic informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and recognise their responsibility relevant to the profession and explore the human side of engineering.
PO7	Understand the role of electrical engineers in society regarding social, cultural, environmental and global responsibilities for sustainable development.
PO8	Ability to understand and practice the professional, legal and ethical principles involved in the area of electrical engineering-
PO9	An ability to function effectively as a team member or a leader focusing on a common goal in multi disciplinary settings
PO10	An ability to communicate effectively on technical activities both orally and in written form
PO11	An ability to apply the knowledge of engineering and management principles to manage projects in multi disciplinary environments
PO12	An ability to undertake self learning of contemporary issues and engage in lifelong learning

#### Programme Specific Outcome (PSO)

PSOs	Description
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PSO1	An ability to design, analysis and to implement power electronics converters in renewable energy applications.
PSO2	A capability to design and examine the power system and to solve the unit commitment with various constraints.

## 1. STAFF ACTIVITIES

- All the faculty members of EEE Department had participated in the one day workshop on “Energy conservation and its Methodology” organized by Department of Electrical and Electronics Engineering in association with Pondicherry HR circle on 19<sup>th</sup> Nov 2017.
- Mr.D.Balaji, AP/EEE, Associate Prof, Mr.P.L.Santhanakrishnan,AP/EEE, had attended the ICTACT sponsored program titled “Emotional Intelligence” from 22<sup>nd</sup> Nov 2017 to 23<sup>rd</sup> Nov 2017.
- All the faculty members of EEE department participated in the ISTE Sponsored one week short term training program (STTP) on “Contemporary World of Electricity – Solar Energy” from 27<sup>th</sup> Nov 2017 to 1<sup>st</sup> Dec 2017



EEE department organized ISTE Sponsored one week short term training program (STTP) on “Contemporary World of Electricity – Solar Energy” from 27<sup>th</sup> Nov 2017 to 1<sup>st</sup> Dec 2017.

- Mr.D.Balaji, AP/EEE and Mrs.V.Thebinaa ,AP/EEE had attended the workshop on “CRIO for Renewable Energy” at Annamalai university from 2<sup>nd</sup> Dec to 3<sup>rd</sup> Dec 2017
- Dr.G.Renuka Devi, Associate Professor/EEE has attended the AICTE sponsored STC titled “Smart Grid & Clean Energy Technologies” at Pondicherry Engineering College from 11<sup>th</sup> Dec to 22<sup>nd</sup> Dec 2017.
- Mr.C.Shanmugasundaram Associate Professor/EEE, Mrs.S.Santhalakshmy AP/EEE and Mrs.R.Priya AP/EEE had participated in the AICTE sponsored STC titled “NASCENT Technologies in Generation, Transmission and Distribution” at Pondicherry Engineering College on 11<sup>th</sup> Dec to 22<sup>nd</sup> Dec 2017.

- Muruganandhan. D AP/EEE and R.Muthunagai AP/EEE had attended the CSIR sponsored seminar titled “Challenges of optimization algorithm on solving and modeling of Real time & OFF line Engg problems” at IFET college of Engineering on 12<sup>th</sup> Dec 2017
- Dr.G.Renuka Devi, Associate Professor/EEE has attended the AICTE Sponsored One Week STC on “Applications of Micro Grid in Distributed Generation Together with Clean Energy Technology (MGCE-2018)” at Pondicherry Engineering College from 29<sup>th</sup> Jan to 02<sup>nd</sup> Feb 2018.
- Mr.S.Rajkumar AP/EEE, Dr.K.Sedhuraman AP/EEE had attended the ISTE sponsored workshop titled “EMBEDDED IOT & IOE” at Manakula Vinayagar Institute of Technology from 11<sup>th</sup> Dec to 15<sup>th</sup> Dec 2017.
- Dr.K. Sedhuraman AP/EEE, P.L.Santhana Krishnan AP/EEE, R.Muthunagai AP/EEE and R.Priya AP/EEE had attended the AICTE Sponsored seminar titled “Electrical Drives and Challenges of Electric transportation” at KCG College of Engineering and Technology on 12<sup>th</sup> Dec 2017.
- Mr.C.Shanmugasundaram, Associate Professor/EEE, Mrs.S.Santhalakshmy AP/EEE and Mrs.R.Priya AP/EEE had participated in the AICTE sponsored STC titled “NASCENT Technologies in Generation, Transmission and Distribution” at Pondicherry Engineering College on 11<sup>th</sup> December to 22<sup>nd</sup> December 2017.
- Dr.R.Valli Professor & Head/EEE, had delivered the special lecture titled “Optical Data Transfer between Computer and Micro Controller” to third year students on 30<sup>th</sup> Dec 2017.
- Dr.G.Renuka Devi Associate Professor/EEE, had delivered the special lecture titled “Industrial needs of controller and its design” to second year students on 30<sup>th</sup> Dec2017.
- Mr.D.Balaji had handled the Comprehensive viva class in the subject of “Measurement and Instrumentation” for final year students on 2<sup>nd</sup> January 2018.
- Mrs.S.Santhalakshmy had handled the Comprehensive viva class in the subject of “Electronics Circuits” for third year students on 6<sup>th</sup> January 2018.
- Mr.S.Rajkumar had handled the Comprehensive viva class in the subject of “Circuit Theory” for third year students on 6<sup>th</sup> January 2018.
- Mrs.R.Muthunagai had handled the Comprehensive viva class in the subject of “Electrical Machines I” for final year students on 8<sup>th</sup> January 2018.
- Mrs. S.Santhanakrishnan had handled the Comprehensive viva class in the subject of “BEEE” for second year students on 20<sup>th</sup> January 2018.
- Mr. C.Shanmugasundaram had handled the Comprehensive viva class in the subject of “Electrical Machines II” for final year students on 22<sup>nd</sup> January 2018.
- Mrs.R.Priya had handled the Comprehensive viva class in the subject of “Digital Electronics” for third year students on 27<sup>th</sup> January 2018.
- Mrs. V.Thebina had handled the Comprehensive viva class in the subject of “Transmission and Distribution” for final year students on 30<sup>th</sup> January 2018.

- Mr.D.Balaji had delivered the special lecture titled “Special Electrical Machines” for second year students on 20<sup>th</sup> January 2018.
- Mr.S.Rajkumar had delivered the special lecture titled “Modeling of motors using ANSYS” for third year students on 20<sup>th</sup> January 2018.
- Dr.K.Sedhuraman had delivered the special lecture titled “Artificial Intelligence Techniques based control for transmission & Distribution systems” for final year students on 22<sup>nd</sup> January 2018.
- Mrs.V.Thebinaa,AP/EEE has delivered the special lecture titled “Electrical Energy conservation & its challenges” to III year students on 3<sup>rd</sup> Feb 2018.
- Mrs.S.Santhalakshmy AP/EEE has delivered the special lecture titled “Application aspects to chose electronics components” to II year students on 3<sup>rd</sup> Feb 2018.

#### DEPARTMENT ACTIVITIES:



EEE department organized the guest lecture titled “Solar Pro Simulation Software and Monitoring System” to second, third year and final year students on 10<sup>th</sup> January 2018. Mr.Ramakrishnan, Sales & Service Engineer, Rogress Techno Pvt Ltd, Coimbatore was the resource persons for the session.



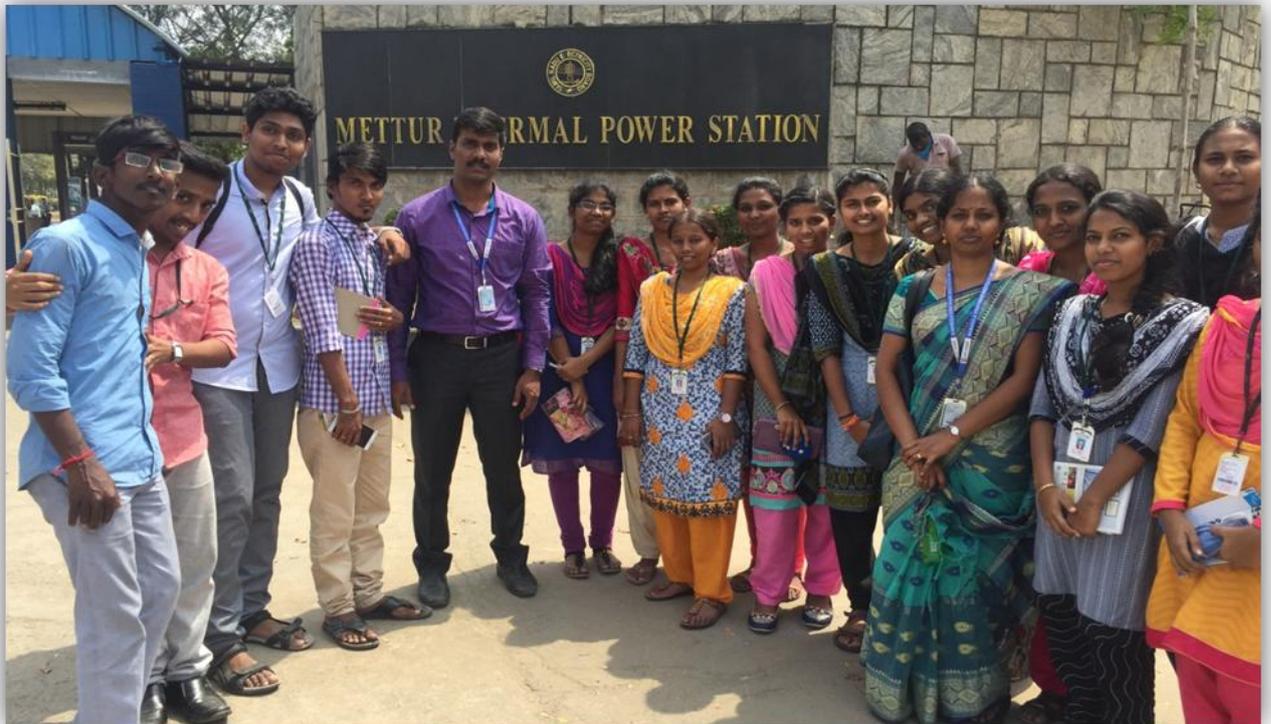
AICTE-Pradhan Manthri Kaushal Vikas Yojana (PMKVY) & Manakula Vinayagar Institute of Technology EEE Department Joinly inaugurated “Free Assistant Electrician“Course for Rural students on 22<sup>nd</sup> Jan 2018.



Mohamed Assem.S,Kalvi Karasi.P,Mohana Priya.A of III year has participated in “Start up Mela - 2018” held at St.Joseph Institute of Management,Trichy from 24<sup>th</sup> January to 25<sup>th</sup> January 2018.The startup idea of this team was awarded for second place with cash prize of Rs.10,000.



ISTE Sponsored Internal workshop titled **“Design and Implementation of Simple Electronics Circuits Using PCB”** was conducted for second year EEE students as a part of FSG – EDC Group on 27<sup>th</sup> Jan 2018



Power system FSG Group organized Industrial visit to **“Mettur Thermal power station”** on 14<sup>th</sup> Feb 2018. 59 students of III year EEE has visited the power plant.

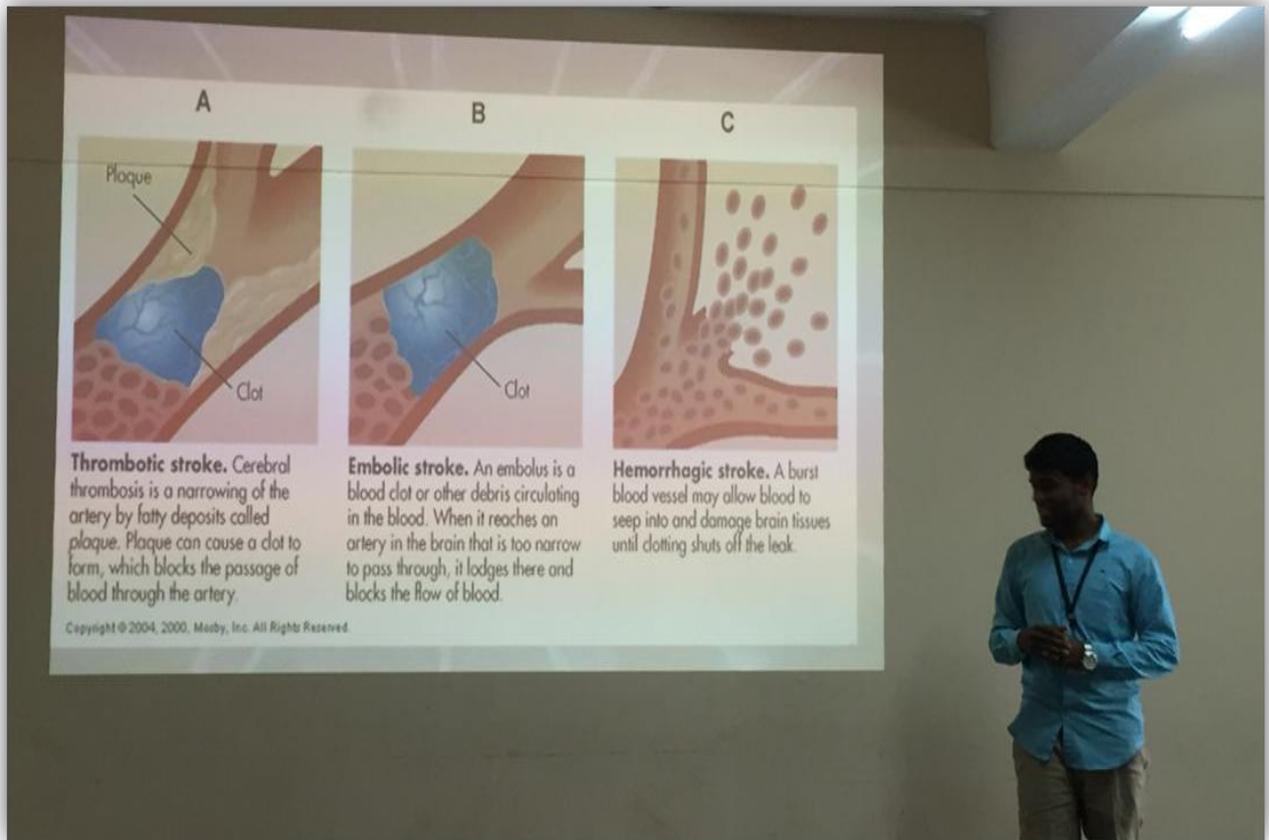


MVIT- IEEE student branch organized Tech-Talk competition titled **“Cutting Edge Technologies that changed the World”** on 7<sup>th</sup> Feb and 19<sup>th</sup> Feb 2018. 30 students from I,II and III year EEE has presented their ideas in the competition .



Applied Electronics FSG group has organized Industrial visit to **“Genlite engineering Pvt Ltd,Chennai”** on Feb 24<sup>th</sup> 2018.46 students of II year EEE has visited the power

plant.



S. Mohamed aseem, III year EEE has presenting his topic during the Tech-Talk competition titled **“Cutting Edge Technologies that changed the World”** on 7<sup>th</sup> Feb 2018



Power system FSG group has organized a competition titled **“C & C++ coding”** on 22<sup>nd</sup> Feb 2018 for II and III year of EEE students



Power system FSG group has organized an Internal workshop titled **“Low tension wiring”** on 17<sup>th</sup> Feb 2018 for II year of EEE students.



Power Electronics FSG group has organized an Internal workshop titled **“Python Programming”** on 17<sup>th</sup> Feb 2018 for EEE dreams students.



EDC- FSG group has conducted Paper Presentation” for II and III year of EEE students on 17<sup>th</sup> Feb 2018

#### STUDENT PARTICIPATION:

- II year EEE students have attended the language training program from 11<sup>th</sup> Dec to 22<sup>nd</sup> Dec 2017.
- III year EEE students have attended the language training program from 18<sup>th</sup> Dec to 20<sup>th</sup> Dec 2017
- Brinda.M II/EEE participated in NSS Selection competition by Educational Department, Pondicherry and was selected for Youth Festival 2018 – Noida conducted from 29<sup>th</sup> December to 8<sup>th</sup> January 2018.]



- Shayam Prasad.S of II year has participated as a representative of electoral Voters Club in **“National Voters Day Awareness session”** held at Kamban Kalai Arangam on 24<sup>th</sup> January 2018.
- Shayam Prasad.S, Abiraman.M,Rahul Krishna.H,Venkatachalam.M of II year have participated in **“Special NSS Camp”** held at Kalmandapam High School from 5<sup>th</sup> January to 11<sup>th</sup> January 2018.
- Shajeed Khan.M of II year has undergone **inplant training** in “HP-SPL Technologies, Chennai” from 2<sup>nd</sup> January to 6<sup>th</sup> January 2018.
- Dhivagr.K, Rishabh.R, Ruthrakumar.M, Rajesh.P of III year students have participated in the student workshop **“Salesforce Business Administration Specialists”** Course organized in Manakula Vinayagar Institute of Technology from 2<sup>nd</sup> January to 6<sup>th</sup> January 2018 in association with ICT Academy.
- Brinda.M of III year had participated in **“National Youth Festival at Gauthama Buddha University, Greater Noida Technology”** from 12<sup>th</sup> January to 16<sup>th</sup> January 2018.
- Mohamed Assem.S has participated in International Trade Festival-Expo of Startups -2018 held at Bombay from 2<sup>nd</sup> January to 11<sup>th</sup> January 2018.
- Mohamed Assem.S,Kalvi Karasi.P,Mohana Priya.A of III year had participated in **“Start up Mela - 2018”** held at St.Joseph Institute of Management, Trichy from 24<sup>th</sup> January to 25<sup>th</sup> January 2018.The startup idea of this team was awarded for **second place** with cash prize of **Rs.10000**.
- Rishabh.R had participated in **“IoT Challenge”** held at Pondicherry Engineering College from 23<sup>rd</sup> January to 25<sup>th</sup> January 2018.
- Swetharanyeswari.M, Divyalakshmi.A, Deepika.R.O,Vasudevan.B,Yuvaraj.A of III year had participated in **“LAB VIEW Workshop”** held at Madras Institute of Technology from 25<sup>th</sup> January to 26<sup>th</sup> January 2018.
- Venkatesan III year has participated in **“South India Inter Engineering Collegiate (T-20) Cricket tournament”** held at SR Engineering College, Hyderabad from 3<sup>rd</sup> January to 9<sup>th</sup> January 2018.
- Jayam.V, Gowsalya.S, Sivaranjini.G, Thamilselvan.R of IV year students had participated in the student workshop **“Salesforce Business Administration Specialists”** Course organized in Manakula Vinayagar Institute of Technology from 2<sup>nd</sup> January to 6<sup>th</sup> January 2018 in association with ICT Academy.
- RamaKrishan.K of IV year EEE has undergone Internship training at **“EATON POWER QUALITY INDIA Pvt Ltd.”** from 22<sup>nd</sup> January to 31<sup>st</sup> January 2018.
- Elanchet Chenni.A of IV year EEE has got M.S admission in Arizona State university on Feb 3<sup>rd</sup> 2018.
- Dhivagar.K,Rajesh.P,Rishabh.R,Sivaraman.S,Ruthrakumar.M and Mugesh.M of III year EEE, Sajeed Khan.S,Abilash,Mohamed Vassif,Abiraman of II year EEE has participated in the **“Learnathon 2K18”** competition held at MIT on Feb 2<sup>nd</sup> and 3<sup>rd</sup> 2018.

- Haripriya.E,Nivetha.V,Kamali.S,Roobasri,Rishabh.R and Ruthrakumar.M of III year EEE has participated in the workshop titled **“Python Programming”** held at Pondicherry Engineering College on Feb 5<sup>th</sup> and 6<sup>th</sup> 2018.
- Elanchet Chenni.A of IV year EEE has got M.S Admission in Horizons University on Feb 5<sup>th</sup> 2018.
- Sajeed Khan.S,Abilash,Muruges,Daranidharana and Rajasekar.S of II year EEE has participated in the workshop titled **“Python Programming”** held at Pondicherry Engineering College on Feb 5<sup>th</sup> and 6<sup>th</sup> 2018.
- Mohamad Aseem.S of III year EEE submitted a proposal titled **“Cyprus bio plastics”** to MSME and presented his idea in the presentation meet held at IISc, Bangalore **on .**
- Haripriya.E,Nivetha.V,Kamali.S,Brindha.M and sowndariya.A of III year EEE has participated in the one day workshop titled **“Image Processing”** held at Savitha Engineering college on Feb 12<sup>th</sup> 2018.
- 8 students of III year EEE has participated in the **“Football match”** held in MIT on Feb 12<sup>th</sup> 2018.
- 10 students of III year EEE has participated in the **“Innovation and Entrepreneurship”** organized by EDC cell, MIT on Feb 22<sup>nd</sup> 2018.
- Deepika of III year EEE has participated in the workshop titled **“Machine Learning”** held at VIT, Chennai on Feb 23<sup>rd</sup> and 24<sup>th</sup> 2018.
- M.Swetharanyeswari of III year EEE has participated in the workshop titled **“3D Image Processing”** held at Pondicherry Engineering College on Feb 28<sup>th</sup> 2018 and also won the First prize in the contest.



R. Rishabh and M,Ruthrakumar III year EEE students has won the II prize- ZOHO Click Trix coding contest with cash award of Rs.50000/-

- List of Students attended on IPT 2017-2018

S.No	Students name	Year	Company name	No of days	Month
1	V.Jayam R. Nithyaprabha A.Rajambal S.Revathy G.Sivaranjani	IV	Marapalam substation,Puducherry	5 days	March 2018
2	Sajeed khan.S	II	SLN technology,Chennai	15 days	Jan 2018