

# Newsletter

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

**June 2016-Nov 2016**

The department was established in the year 1999. Initially it offered an under graduate course with a strength of 60 and successfully increased to 120 during the academic year 2004-2005 and 180 in the year 2011. It also offers post graduation in M.Tech-Power Electronics and Drives from the year 2011 with an approved intake of 18.

The Department of Electrical and Electronics Engineering offers an under graduate course in Electrical and Electronics Engineering and Post Graduate in M.Tech-Power Electronics and Drives with industry required syllabus. It offers Professional and need based continuing education to conduct training Programmes in frontier areas of Electrical Engineering on par with consultancy and technical services of the industry.



The Department is considered as a unique centre for promotion of excellence in Electrical Engineering and has been successful in fulfilling its role. The faculty members have put tireless effort in contributing research papers to International journals like IEEE, Elsevier and Springer etc.

Electrical and Electronics Engineering is multi-disciplinary by nature, representing a veritable synergy of different technologies. To meet the challenges of the new millennium, we train our students in the areas of artificial neural networks, fuzzy logic, finite element analysis, computer aided design of electrical machines, micro-controllers and digital signal processing, generation, transmission and distribution of power, Power system operation and control, Electrical Machines, Power Electronics and their control using computer methods etc.

## Vision of the institute

To be a stimulating place to learn and practice technology and to become a leading college of engineering nationally and internationally recognized for its outstanding education research and outreach programs.

## Mission of the institute

**M1: (Foster the Inbuilt qualities)**

To foster the inbuilt qualities of the students to face the challenges of the new millennium.

**M2: (Innovative Ideologies)**

To provide an opportunity to explore and experiment innovative ideologies.

**M3: (Potential Dexterity)**

To equip our students with the vital and potential dexterity in order to flourish in the corporate and industrial sectors.

**M4: (Excellence in Engineering)**

To dilate as centre of relevance and excellence in engineering and technology.

## Vision of the Department

“To be an effective source of technical manpower for the nation and to contribute to the growth of the nation by constantly upgrading the quality of technical education by meeting the challenging needs of the twenty first century and effectively coordinating the activities of the staff, students and the industry while keeping up the ethical and moral standards required”.

## Mission of the Department

**M1: (Quality education and Ethics)**

To provide quality education with ethical values.

**M2: (All round competitiveness)**

To train and educate students with all round competitiveness.

**M3: (Centre for Research studies)**

To develop the department as a Centre for research studies in various Specialized areas and to strengthen the Industry-Institute Interaction.

**M4: (Higher studies and Society oriented research)**

To motivate the students to do higher studies and to undertake society oriented research.

**M5: (Team Spirit, Leadership Quality)**

To nurture the talent and to facilitate the students with Team Spirit, Leadership Quality and Flexibility in Budding Electrical Engineers that makes a positive difference to society through education.

## Gold medalists



Details of Gold medal and rank holders		
Year	University Gold medal	Other Top Fifteen Rank holders
2011-15	1	2,6,7,11
2010-14	1	3,5,6,10,11,12,13,15
2009-13	1	2,4,5,6,7,9,11,12,13
2008-12	1	2,4,9,13,14,15

## STUDENTS ACHIVEMENTS

### Publications by students (International Journals)

Sl. No.	Publication details
1	G.Gowribanu and S.Anbumalar, "Dynamic performance improvement of a moving average filters based-PLL using PI and fuzzy controller" IEEE-International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016.
2	Raja. D and Gayathri. S, "A Non isolated Multi-input Multi-output Dc –Dc Boost Device for Electrical Vehicle Applications", International Journal of Scientific Research & Development (IJSRD), Volume 4, Issue 02, 2016.

## Awards received by Students projects

**List of innovative projects received funds from - Texas instruments & DST , Delhi  
India innovation challenge Design Contest 2016 Anchored by IIM Bangalore**

Sl.No	Guide	Title of the Projects	Project Members	Fund Re-ceived(Rs)
1	Dr.S.Anbumalar	Automated organic manure production	Mohamed Riaz. F	Cash Prize 75,000 + 5 Lakhs for product development +20 Lakhs for Startup for securing in top fourth position
			Megavaruman.P	
2	Ms.P.Jamuna	Hand Gestures and Voice Recognition	Abirami. P	9,835
			Priyadharisini. B	
			Bhuvanagri. G	
3	Dr. K. Suresh	Prevention of ATM Skimming	Canagasundar. B	9,720
			Goutham. S	
			Mohammed Ifthikar. N	
4	Mr. D. Durairaj	Automatic Circuit Fabrication in PCB	Krishna.A	20,026
			Mugundhan.M	
			Arun Kumar.R	
			Lokkesh.C	
5	Ms.T. Saranya	Automatic Irrigation System using PV Module	S.Hamakaviya	1,652
			V.Rathika	
			S.Nivedha	
6	Mr.B. Parthiban	Low Cost and Compact Size Saree Ironer and Foldmate	Banurekha.V	14,941
			Sridevi.R	
			Rusithra.V	
7	Mr.B. Parthiban	Flower Tying Machine by using Feature Extraction in Image Processing	Polisetty Neeraja Rajeswari	15,467
			Roupa Shree.R	
			Ramya.T	
			Pavithra.M	
8	Ms.Chinthana	Smart Shopping Kart	Gowsalya.S	5,089
			Gowsalya.B	
			Parvathi.R	
			Vijayalakshmi.V	

# Students Achievements

## Integrated Technology (IT) Olympiad 2017



Rotary Club of Pune Pride (RCPP), Virtual Lab, AFOUR Tech and College of Engineering Pune (COEP) jointly organized a National Level Integrated Technology (IT) Olympiad 2017 competition. The competition initially started with 6000 students from all over India which includes several stages such as Preliminary Test, Fundamentals and advanced knowledge test in the projects. Out of 6000 students only 25 teams were selected for the finals, out of which 8 teams were selected as the best and were asked to present their innovations in front of Industrial experts.

**J.Gowtham**, a student of Sri Manakula Vinayagar Engineering College , **III year** , Electrical and Electronics Department has won the second prize with a cash award of Rs. 12,000 and an award of honor, along with an internship program in an industry through which he has an opportunity to get job offer. The concept developed by him is , **“Designing and Development of special purpose machines for cashewnut modernization process with special emphasis on use of solar power”** under the guidance of Mr. D.Durairaj, Assistant Professor, EEE.

# Students Achievements

## Make in India



J. Krishna Chandhar, R. Balaji, K. Harish Kumar, T. Saravanan from III Year-EEE and P. Aravindh, S. Magesh Babu, R. Karthick of II Year-EEE **won "BEST PAPER" Award**. Our institution won **"Award for Excellency"** in **"Make in India" major new national program conducted by ECI- Entrepreneurs Council of India in association with Government of India**, held at Sathyabama University, Chennai on 19<sup>th</sup> November 2016 .

"Make in India" is a major new national program by the Government of India in association with Entrepreneurs Council of India (ECI) designed to facilitate investment, foster innovation, enhance skill development, protect intellectual property and build best in class manufacturing infrastructure in the country. It was led by the Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry and Government of India. According to the same, Project Council announced Call for Paper Presentation contest on "Make in India".

This contest took place during September-November 2016. In this National level program around 1300 teams participated out of which around 200 teams were selected for the finals. Out of those finalists, 5 teams were from the Department of Electrical and Electronics Engineering, Sri Manakula Vinayagar Engineering College, Puducherry. The grand National finals took place at Sathyabama University, Chennai on 19th November 2016 in which the team comprising J. Krishna Chandhar, R. Balaji, K. Harish Kumar, T. Saravanan of III Year-EEE and the team comprising P. Aravindh, S. Magesh Babu, R. Karthick of II Year-EEE won the "BEST PAPER" Award. The institution 'SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE, Puducherry won the "Award for Excellency".

# Guest Lecture

Sl. No	Name of the Organization	Type of work carried out
1	Directorate of Industries and Commerce, Puducherry.	Mr. Jothikumar. A, Function Manager (Retd.) gave a seminar on Entrepreneurship development on 9.07.2016 .
2	Balu electricals, Lawspet, Puducherry.	Mr.Balu, Proprietor, gave a guest lecture on Trouble shooting & Servicing of electrical equipment on 9.7.2016.
3	TVS Lucas, Nettapakkam,	Mr.J.Janarthanan, Development Engineer, gave a guest lecture on Industrial applications of DC motor on 30.07.2016.
4	BGR energy system limited, Chennai	Mr.S.Anand, Instrumentation engineer, gave a guest lecture on Process control of Thermal power plant.
5	Raja Electronics Institute, Manjakuppam, Cuddalore	Mr.Raja provided a hands on training on testing of electronics devices and equipments like laptop, TV, radio
6	TCIL, Lawspet, Pondicherry	Mr.Hari, gave a 3 day training on automation software ,PLC and SCADA.
7	Pantech ProEd Private Limited, Chennai	Mr.Gokul, gave a guest lecture on Embedded systems.



⇒ Mr.J.Janarthanan, Development Engineer, TVS Lucas, Nettapakkam, Puducherry delivered a guest lecture to the II year students about “**INDUSTRIAL APPLICATION OF DC MOTORS**” on 30.07.16



Mr.Balu, Proprietor, Balu electricals, Lawspet, Puducherry, delivered a guest lecture to the II year students on Trouble shooting & Servicing of electrical equipment's on 09.07.16



ADD on course - PLC & SCADA

## Guest Lecture



Mr.A Jothikumar, Function Manager(Rtd), Directorate of industrial and commerce, Puducherry delivered a guest lecture to the III year EEE students about  
**“ENTREPRENEURSHIP DEVELOPMENT”** on 09.07.2016



# Training and Placement Division

Sl. No	Organization/ Resource person	Training Category	Major Topic covered
1	Work senses	Soft skills	Business Communication, Intrapersonal & Interpersonal Relationship Skills, Interview Handling & GD Skills, Entrepreneurship Skills.
2	SEED	Soft Skills	"Perceptual Orientation Workshop" - Identifies & Corrects the root cause of negative human behaviors. Focuses on Perceptual learning.
3	Blue lotus	Soft Skills	Breaking Stage fear, GD & Interview handling techniques and a motivational speech.
4	Mr.Ravi Ramanathan	Motivational	A program was organized to motivate the students and face the upcoming interviews with confidence.
5	Mr. Musee Pougazhendhi	Motivational	This program was to bring self realization to students and to help them connect with the society.
6	Vista Mind	Communication Skill	Sentence Completion, Reading Comprehension, Analysis of an Argument, Grammar Foundation, Antonyms, Synonyms.
7	SMART	Company Specific Aptitude Training	They train the students to face the question papers in specific companies.
8	Innovative	Aptitude and reasoning training	Aptitude Training - Simple Equations, Ratio Proportions, Percentages, Stocks and Shares, Profit and Loss, Indices and Surds, Averages, Mixtures and Allegations, Simple interests & Compound Interests, Time & work , Pipes & Cisterns, Geometry, Permutations and Combinations, Logical Reasoning- Data Sufficiency, Data Interpretation /Sufficiency, Critical Reasoning
9	Skill Rack	Online assessment	They provide online assessment to the students on different aptitude and reasoning topics, they also provide company specific online assessment to the students.
10	Mr.Jayaprakash Gandhi	Motivational	Motivates students to focus on career.

# **NEWS LETTER**

{JUNE 2016-NOV 2016}

## **The Editorial Board**

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