

Newsletter

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Dec 2016-April 2017

The department was established in the year 1999. Initially it offered under graduate course with the strength of 60 and successfully increased to 120 during the academic year 2004-2005 and 180 in the year 2011. It also offers post graduate course 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 under graduate course in Electrical and Electronics Engineering and Post Graduate course 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 to the industry.



The Department stands as a unique centre for promotion of excellence in Electrical Engineering and has been successful in fulfilling its role in this end of rocketing technologies. The faculty members have the 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

Texas Instruments in collaboration with Department of Science and Technology (DST), New Delhi has organized “**India Innovation Challenge Design Contest 2016 – IICDC 2016**”, anchored by NSCREL and Indian Institute of Management (IIM), Bangalore and supported by government of India (MyGov). This contest is for students from Indian engineering colleges who have a dream to create something new, aspire to make a difference and contribute to India’s success towards becoming an **innovation hub**.

In IICDC-2016 project competition, more than 11,000 students from 624 colleges have participated from all over India including the students from IIT, NIT, IISC and other top most colleges. The students from the department of Electrical and Electronics Engineering, Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry, have submitted 30 innovative project proposals for this project competition.

For quarterfinal round, 428 teams were shortlisted out of which 8 teams were from the Department of EEE, SMVEC. An approximate amount of Rs.80,000 worth components have been sponsored by Texas instruments for those shortlisted batches to develop their prototype. The semifinal round was held at IIM, Bangalore on 15th April 2017 and 60 teams were shortlisted out of which one team was from Sri Manakula Vinayagar Engineering College.

India Innovation Challenge Design Contest 2016 - IICDC 2016

Thirty teams were shortlisted for the final round of India innovation Challenge Design Contest in which one team was from Sri Manakula Vinayagar Engineering College, EEE.

The final round for this grand event was held on July 22, 2017 at IIM, Bangalore. In this event, out of 11,000 students from 624 colleges, 18 teams all over India including the students from IIT, NIT, etc, have been shortlisted through several rounds.

A student team which includes Mr. Megavaruman and Mr. Mohamed Riaz from the department of Electrical and Electronics engineering and Mr. Rosheth from Electronics and Communication Engineering from Sri Manakula Vinayagar



Engineering College had participated in the final round of IICDC 2016. They exhibited a project titled as **'Automated organic manure production'** under the guidance of Dr. S. Anbumalar, Professor and Head of EEE department, SMVEC. They travelled the full journey of IICDC 2016 and successfully ended up as 4th best innovation in India.

They received a cash prize of Rs.25,000/- for being shortlisted as semi-finalist and also received a product development fund of Rs.5,00,000/- from Department of Science & Technology for developing their



prototype as a product. Following this, they received a cash prize of Rs.50,000/- for being shortlisted as finalist and an incubation at N.S Raghavan Centre for Entrepreneurial Learning, Indian Institute of Management (IIM), Bangalore for a period of one year. In addition to that, a SEED fund of Rs.20,00,000/- will be provided for the development of their start-up.

IISc MSME Project fund received

MSME CENTRE OF EXCELLENCE

Indian Institute of Science

The main focus of this Centre is to support MSME's to become competitive by introducing innovative products/processes which may be really 'new-in-the-market' or 'innovative replacements' for existing products/processes.

Three projects has been applied for fund at IISc-MSME, Bangalore. In that , one of our projects has been shortlisted for next round of technical discussion.

Sl. No	Title of the Projects	Student Name	Guide Name/ PI/Co-PI	Name of the funding agency	Applied amount in Rs.	Status of the project
1.	Semi-Automated Adjustable Boarding System in buses for senior citizen	Mr.Canagasundar Mr. Nanda Kumar	Dr.S.Anbumalar (Mentor)	MSME, IISC, Bangalore	2,00,000	Sanctioned (DP-SP-024)
2.	Design and fabrication of high frequency pulse transformer using soft magnetic composite core	Mr.B.Arun Kumar	Dr.K.Vijayakumar (Mentor)	MSME, IISC, Bangalore	1,40,000	Submitted
3.	Low cost automation for deflashing plastic parts in washing machine	Mr.Muguthan	Mr. Parthiban.B (Mentor)	MSME, IISC, Bangalore	1,33,000	Submitted



MSME

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Ministry of MSME, Govt. of India

Students Achievements

L&T Techgium Contest 2017

The fame rich company L&T has taken pleasure in arranging a contest named “L&T Techgium Contest 2017” (Engineering Innovators for Tomorrow) which aims at finding Industrial Challenges followed by creation of best Innovative solution for the same. This will ensure meeting current and future needs. This platform also proves to find a new breed of associates with niche engineering skills who are capable of solving real time needs. In our department 4 batches cleared first round and were shortlisted for the technical presentation round.

The shortlisted teams of EEE Department are as follows:

BATCH NO.	NAME OF THE TEAM MEMBERS	YEAR	TITLE	GUIDE NAME
1	1.B.Dipak yadav 2.K.Vignesh 3.D.Muralidharan 4.S.Chandra moulee	III	Variable speed transmission in industrial linear actuator	Mr.S.John Powl
2	1.M.Kathiravan 2.S.Rajeshkumar 3.R.Vignesh 4.N.Arul Raja	IV	Gesture Controlled HUD Display in Transportation System	Mr.K.Thangaraj
3	1.M.Pavithra 2.P.Abhirami 3.T.Ramya	II	Noise Canceling in Machine	Mrs.Punitha
4	1.S.Suchithra 2.R.Thamizharasi 3.V.Yamini	III	Accessibility of Wind Turbine Generator and other accessory components	Dr.K.Vijayakumar

Recruitment Analysis Council (RAC)

The high level committee of Recruitment Analysis Council (RAC) has planned and executed a National recruitment Plan-2016 in association with the State and Central Government. This program will bring tremendous value to our National Initiative towards curbing unemployment in India, as experts said. RAC announced IET-16 (Innovation of Engineering and Technology '16), a paper presentation contest for Engineering students related to Science and Technology supported by 'National Cyber Defense Research Centre (NCDRC). Through IET'16 top selected papers will be recommended for an implementation to Ministry of Science and Technology, Government of India and to the IT companies.



Students' Achievements



R.Jeevabala, M.Mohamed Hussain & K.Mohan Bhabu from II Year and R.Roupashree, Polisetty Neeraja Rajeshwari, C.Tamizharasi, Ramprasad, S.Priyadharsini & B.Canagasundar from III Year EEE Department received Certificates & Medals for **“BEST PAPERS”** from **Recruitment Analysis Council (RAC)** on 18th March 2017 at S.J.C Institute of Technology, Chikballpur, Karnataka



RAC conducted state level paper presentation contest on 18th March 2017 at S.J.C Institute of Technology, Chickballapur, Karnataka. In this Mr. J.Krishna Chandar, Mr. R.Balaji and Mr.Saravannan (III year), Aravindh, Magesh Babu and Ramachandren (II year) from Department of Electrical and Electronics Engineering, have presented their innovative projects. Their papers were ranked **among top 10 best concepts** out of 117 short listed papers for 2nd round from various zones all over India.

Students Achievements



The SR College of Engineering, Warangal conducted Cricket Champions Trophy 2017 in South Zone Level. In which our department students V. Akshaykiran, K. Karthik, K. Prasanth, Nanda Kumar finished runners-up. In the match, V. Akshaykiran was awarded “Man of the Match”.



The awareness programme was organized by Dr. K. Vijayakumar, Asso Prof/EEE/SMVEC along with EEE students J. Krishna Chandhar, M. Lalitha, Megavarman.P and K. Harish Kumar on the topic "**Benefits of Cashless Economy and Digital economy**". The students from classes VII to XI of Bright Higher Secondary School, Lawspet, Puducherry have been benefited by attending the programme on account of Founders' Day on 19th January 2017

Confederation of Indian Industry (CII)



Industrial visit at EATON, Sedarapet industrial estate. (Manufacturer of LT and HT fuses and Inverters). This industrial visit was organized by CII-Pondicherry.

Placement details



Mr.S.Selvakumar and Mr.U.Mohan Raj receives offer letter during JUBILATION 2017



Alumni gives training to the final year student regarding interview tips



Offer letter received from HR, Aspire system

Placement details-Batch(2013-2017)

Sl. No	COMPANY NAME	STUDENT PLACED	CAMPUS	SALARY PACKAGE
1	MICROCHIP	2	ON CAMPUS	Rs.5,75,000 p.a
2	EmbeddUr	1	ON CAMPUS	Rs.5,00,000 p.a
3	ASPIRE SYSTEM	3	ON CAMPUS	Rs.4,50,000 p.a
4	CFS	7	ON CAMPUS	Rs.4,50,000 p.a
5	TCS	45	ON CAMPUS	Rs.3,36,875 p.a
6	TECH MAHENDRA	6	ON CAMPUS	Rs.3,25,000 p.a
8	HFCL	1	ON CAMPUS	Rs.2,75,000 p.a
9	OFS	2	ON CAMPUS	Rs.2,75,000 p.a
10	Chain.sys	2	ON CAMPUS	Rs.2,40,000 p.a
11	SPI GLOBAL	1	ON CAMPUS	Rs.2,40,000 p.a
12	FACE	1	ON CAMPUS	Rs.1,80,000 p.a
13	SUTHERLAND (VOICE)	9	ON CAMPUS	Rs.1,80,000 p.a
14	SUTHERLAND (NON-VOICE)	6	ON CAMPUS	Rs.1,40,000 p.a
15	JUST DIAL	3	ON CAMPUS	Rs.1,92,000 p.a
16	JUST DIAL	3	OFF CAMPUS	Rs.1,92,000 p.a
17	AVALON (GET)	3	ON CAMPUS	Rs.1,90,000 p.a
18	EUREKA FORBES	8	OFF CAMPUS	Rs.1,80,000 p.a
19	MOBIUS	12	ON CAMPUS	Rs.1,20,000 p.a
20	ZEALOUS SERVICES	4	OFF CAMPUS	Rs.1,20,000 p.a
21	AVALON (GEA)	9	ON CAMPUS	Rs.90,000 p.a
22	UNIVERSAL TELECOM-MUNICATION	5	OFF CAMPUS	Rs.84,000 p.a
23	PARLE AGRO	2	OFF CAMPUS	Rs.84,000 p.a
24	SOUTH INDIA ROAD-LINES	1	OFF CAMPUS	Rs.84,000 p.a
25	OPPO PROMOTER	1	OFF CAMPUS	Rs.84,000 p.a
26	ESAP MICROFINANCE [EMFIL]	1	OFF CAMPUS	Rs.84,000 p.a
	TOTAL	138		

Industrial Visits

Sl. No.	Industry visited	Date	Year/Sem/Sec/Batch
1	General Transformers, Mettupalayam, Puducherry	09.01.2017	II/IV/A/2015-2019
2	General Transformers, Mettupalayam, Puducherry	11.01.2017	II/IV/B/2015-2019
3	Reil Electricals India Ltd., Puducherry	09.01.2017	III/IV/A/2014-2018
4	Reil Electricals India Ltd., Puducherry	11.01.2017	III/IV/B/2014-2018
5	Kerala Electrical & Allied Engineering Co. Ltd.	25.03.2017	III/IV/A&B/2014-2018
6	Chennai metro railway, Chennai	23.3.2017	II/IV/A/2015-2019
7	Suntech Transformers Electrical equipment manufacturer, Ranipet	25.3.2017	II/IV/B/2015-2019



Industrial visit to
Kerala Electrical & Allied Engineering Co. Ltd. And TRACO cables Co. Ltd. by III year Students
On 25.3.2017

Industrial Visits



Industrial Visit to
Reil
Electricals India Ltd.,
Puducherry by III
year students on
9.1.2017



Industrial Visit to
Chennai metro rail-
way, Chennai
By II year A sec
students on 23.3.2017



Industrial Visit to Reil Suntech Transformers
Electrical equipment manufacturer, Ranipet
by II year B sec students on 25.3.2017

Guest Lecture

Sl. No	Name of the Organization	Type of work carried out
1	BGR energy system limited, Chennai	Mr.S.Anand, Instrumentation engineer, had given a guest lecture on Process control of Thermal power plant on 11.2.2017
2	Raja Electronics Institute, Manjakuppam, Cuddalore	Mr.Raja had provided a hands on training on testing of electronics devices and equipments like laptop, TV, radio
3	TCIL, Lawspet, Pondicherry	Mr.Hari, had given 3 days training on automation software PLC and SCADA
4	Pantech ProEd Private Limited, Chennai	Mr.Gokul, had given a guest lecture on Embedded systems



Mr.S.Anand, Instrumentation engineer, BGR energy system limited, Chennai, delivered the guest lecture to the III year students about Process control of Thermal power plant on 11.02.17

BEST PROJECT -Final year Academic project

BEST PROJECT (2016-17)				
Sl. No.	Student Name	Title of the Project	Place	Amount in Rs.
1	Janagaraj Ganapathy.R Prashanth.U Rajesh.M Robert.L	Centralized monitoring of OLTC transformer	I	Rs.5,000
2	Bhuvanesh.S Krishnadevan.B Buwaneshwar.M Partheeban .V	Self Monitoring Automated Route Trash (SMART) Dustbin	II	Rs.3,000
3	Karthikeyan.S Manikandan.A Sreenath.M Ranjith Kumar.S Rohan .J	Cybernetic e-vehicle for campus transportation	III	Rs.2,000

CO-CURRICULAR ACTIVITIES 2017



The POPE JOHN PAUL COLLEGE, Puducherry, conducted a State level Inter- Collegiate dance competition, in which our department students Mr.S.Suresh and Akshayakiran.V of final year have won 2nd prize

Faculty Information



Faculty members from different departments of Sri Manakula Vinayagar Engineering College have participated in eight days Faculty Development Program on “Cloud and Automation” conducted by TATA Consultancy Services (TCS), Chennai from 28 Dec 2016 to 8 Jan 2017.

NEWS LETTER

{DEC 2016-APRIL 2017}

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