



SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUA, Anantapur)
Accredited by NAAC with 'A' Grade Bangalore
RVS Nagar, K.N Road, Puttur – 517583



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SPACE 2K18 – ANNUAL REPORT

The ECE Technical forum SPACE (SVPP Professional Association of Communication & Electronics Engineers) is formed with the objective of providing a platform for the students to exhibit their talents. The SPACE is aimed at personality development, technological skills, communication skills and interview skills of the students. To achieve the desired targets, every year SPACE will be inaugurated in the beginning of the I Semester and the events designed for the student development will spread over odd and even semesters.

SPACE provides a forum, which will effectively represent the interest and concerns of students of ECE department, for pooling our knowledge and experience, supporting the initiatives and events that enrich the career and also benefited to our academic development. Also focuses to organize events & also to participate in these activities and got awareness of technical presentation.

Under SPACE every year workshops, Technical fests, Guest Lectures, seminars etc., are organized.

The ECE Technical forum SPACE for the Academic Year 2017-18 is constituted with the following office bearers

SPACE Coordinator	:	Mr. C. Kumar, Assoc. Professor
President	:	Mr. S. Ahammad Basha(IV ECE)
Vice President	:	Ms. P. Neeraja(IV ECE)
Secretary	:	Ms. D. Ramya(III ECE)
Joint Secretary	:	Mr. S. Giridhar(II ECE)
Treasurer	:	Mr. K. Yuvaraj(III ECE)

Student Coordinators: For IV ECE:	Ms. K. Kavya
	Mr. D. Srikanth
For III ECE:	Mr. K.Uma Maheswar Reddy
	Ms. K. Lokeswari
For II ECE:	Mr. K. Sai Krishna
	Ms. N. Alekhya
	Mr. K. Poorna Chandra Rao
	Ms. K. Uma Maheswari
	Mr. U. Nagadharani

SPACE- ECE TECHNICAL FORUM was inaugurated by our beloved Vice chairman Balaji.V.Ravuri and honorable principal Naveen.Kilari on 19th July 2017. Various events are organized under SPACE by SPACE coordinator, Faculty & student coordinators for the academic year 2017-18.

A 2- Day Hands-on Workshop on Basic Electronic Components and Circuits for B.Tech II Year students has been conducted on 19th to 22th July 2017 organized by the

convener Dr. N. Sudhakar Reddy, Professor in ECE Dept. The trainers for this workshop are Mr. C. Manikanta, Asst. Professor, Dept of ECE & Mr.K.D.Mohana sundaram, Asst.Professor, Dept of ECE. Workshop on Basic Electronic components & circuits mainly focuses on Identification of basic electronic components (Resistors, inductors, capacitors, diodes, transistors etc...). Identification of symbols in basic electronic circuits. Testing of components i.e., RLC and semiconductor devices in various faults (Short, open, leaky, and good one).Tracing analysis of integrated circuit board and also worked on Mini projects.

A 3-day hands on workshop on Embedded systems for Basic Microcontroller 8051 & Arduino was conducted on 17th to 19th August 2017 in association with APSSDC for B.Tech III Year students . This workshop was organized by the convener Dr. N. Sudhakar Reddy, Professor in ECE Dept. The Resource persons for this workshop are S. Murali Krishna, N. Naga jyothis, U. Sumanth & K. Maheshswara Archaya. This workshop helps the students to understand the basic procedures for working with 8051 & Arduino and can explore further by their own. A Microcontroller is a small computer that you can program to control things like lights or motors along with listening to components like motion detection sensors. It can give your project interactivity without needing an expensive and large circuit.

One Day Awareness program on “How to Win Gate” was conducted on 28th August 2017 by the resource person Y. Naresh, LEAD Institutions. This seminar mainly focuses on cracking GATE, IES and other engineering based competitive exams. Also it uncovers the misconceptions over these exams to students and tips and tricks to crack these exams. Also making a useful time management could lead to huge success. All in all this is a informative seminar especially for the III, IV students.

An Industrial Visit to National Atmospheric Research Limited, Gadanki for B.Tech IV Year students on 27th October 2017 was arranged by the Faculty coordinators Mr. N. Anil Kumar, Associate Professor, Dept of ECE, Mr. A.S. Sai Puneeth Theja, Assistant Professor, Dept of ECE & Ms. D. Moulika, Assistant Professor, Dept of ECE. NARL is an autonomous research laboratory fully funded by the Department of Space, Government of India and involved in carrying out fundamental and applied research in Atmospheric and Space Sciences. It had its humble beginning in 1992 as the National Mesosphere-Stratosphere-Troposphere(MST) Radar Facility. Students get to know the real time picture on the weather study and forecasting. Also had a brief introduction to the super computer to perform calculations on the data.Students given a brief introduction to the LiDAR’s working and data manipulation and fore casting weather. Also had a chance to visit array of MST Radar antennas and got to know its application.

Value Added course on Advanced Embedded Systems for IV Year B.Tech ECE students was conducted from 6th Jan to 18th Jan 2018 by the Faculty coordinators Mr. C. Manikanta, Associate Professor, Dept of ECE & Mr. A.S. Sai Puneeth Theja, Assistant Professor,Dept of ECE. The Resource person is Mr. Naveen, Takeoff Group. This course mainly focused from the basics of Embedded systems, starting from 8051 and to its interfacing. Also focuses on Arduino, a simple microcontroller board using ATMEGA and its interfacing with the devices and the difference between the arduino and 8051 and how arduino is simple comparatively. This course deals with PIC microcontroller and its interfacing. Finally studying various sensors and making use of interfacing with these sensors.This course gave a practical knowledge and hands on experience to the students which make them to have a broad view on pursuing their main project work.

A 3-Day Hands-On Workshop on Embedded Systems advanced–RaspberryPi was conducted from 22-01-2018 to 24-01-2018 organized by the convener Mr. A.S.Sai Puneeth theja, Asst. Professor, Dept of ECE for III B.Tech ECE students. The Resource person is Ms.Sumathi, APSSDC (Andhra Pradesh State Skill Development Corporation). These topics are covered in the workshop, Introduction to IOT,What is Raspberry pi,Real world applications with Raspberry Indifferent IoT platforms,Arduino Vs. Raspberry Pi,Raspberry Pi 3 Model B Vi2 Board description, Different operating systems used for Pi, Jesse and stretch OS Installations’ and VNC connction,Linux and Python basics, Interfacing of LED with Pi using python, Controlling of LED using switch through Pi. Interfacing of Sensors(IR,DHT11) with Pi,Pi as Tweeting Device, How to send email or SMS from Pi,Using Socket Communication how to Send and Receive data,Controlling of Hardware and observing status of actuators by using Socket, Different Services provided by Amazon Web Services(AWS),How to create and use EC2 instance of Windows and Linux server, Socket communication by using above Instance to control Hardware from anywhere . This workshop helps the students to learn the basics of Internet of Things and its applications. Build your computer using Raspberry Pi platform, Work with DHT sensors to detect humidity and temperature, Setup IoT connectivity using a remote desktop, Understand Raspbian OS, Python programming, SMTP and API,Develop and test an IoT weather monitoring station.

A 4 day workshop on PCB design was conducted from 29th January to 1st February 2018 organized by the convener Mr.C.Kumar, Associate Professor,Dept of ECE. The Resource persons are Mr.S.Rakesh Rajan, T.Khaja Moddine, P.Lokesh & P.Venkata Raghu Takeoff Edu Group delivered an Introduction to Basic electronics, Difference between Bread Board & PCB,What is the need for PCB?,Introduction to PCB, Types of PCB’s, Soldering basics, Soldering components on your PCB.

The SPACE valedictory celebrations was held on 28.03.2018 and 29.03.2018. During these days various events like Technical Quiz, JAM, Aptitude & Verbal writing, Paper Presentation, Circuit Debugging, Dumb Charades, Short Films & Group Discussion were conducted at different times. The winners are awarded in the SPACE valedictory celebrations by our beloved Vice chairman Balaji.V.Ravuri and honorable principal Naveen.Kilari on 29th March 2017 .As an entertainment to the students few cultural were also conducted on the same day.

The details of the various event winners in the SPACE valedictory celebrations are listed below.

SPACE 2K18 VALEDICTORY CELEBRATIONS’ EVENT WINNERS

Event	Winners			Runners		
	Name of the student	Roll No.	Year	Name of the student	Roll No.	Year
Paper presentation	K. Yuvaraju	15G01A0427	III	E.S. Priyanka	16G01A0428	II
				G. Revathi	16G01A0440	
Technical Quiz	K.O. Karthikeyan	15G01A0424	III	B. Sai Kumar	15G01A0405	III
	P. UmaMaheswara Reddy	15G01A0445		T. Vinod	15G01A0458	
	M. Ajith Kumar	15G01A0438		N. Muni Sankar	15G01A0439	

	S. Muzeeb	15G01A0455		A. Lokesh	15G01A0402	
Circuit Debugging	P. Leela Kumar	16G01A04A1	II	C. Shyamali	15G01A0411	III
	K. Dhanasekhar	16G01A0472		G. Dhathri	15G01A0416	
Aptitude & Verbal Writing	P.M. Asha	15G01A0444	III	V. Vinisha	15G01A0464	III
Essay Writing	K.O. Karthikeyan	15G01A0424	III	D.M. Sukumar	17G05A0404	II
JAM	K. Yuvaraju	15G01A0427	III	P. Chinna Raj	16G01A04C0	II
Group Discussion	P. Chinna Raj	16G01A04C0	II	S. Giridhar T. Ravi Kumar	16G01A04D0 16G01A04E2	II
Dumb Charades	P. Pooja	16G01A04A2	II	G. Malathi	16G01A0439	II
	K. Sandhya	16G01A0461		B. Siri Sushmitha	16G01A0414	
Short Films	G. Subba Reddy	16G01A0436	II	D. Veera Reddy	15G01A0414	III
	J. Lokeshwar Reddy	16G01A0445		S. Muzeeb	15G01A0455	
	A. Revanth	16G01A0408				

