

UPAGRAHA'19

**National-level Intercollegiate
Technical symposium**

September 26th, 2019

**SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous and affiliated to Anna University)**

**Pennalur, Sriperumbudur(TK), Tamil Nadu - 602 117,
India.**

SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous- Affiliated to Anna University, Chennai)
Sriperumbudur Tk. Pin- 602117, Tamilnadu, India. www.svce.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Vision

To excel in offering value-based quality education in the field of Electronics and Communication Engineering, keeping in pace with the latest developments in technology through exemplary research, to raise the intellectual competence to match global standards and to make significant contributions to the society.

Mission

- To provide the best pedagogical atmosphere of highest quality through modern infrastructure, latest knowledge and cutting-edge skills.
- To fulfil the research interests of faculty and students by promoting and sustaining inhouse research facilities so as to obtain the reputed publications and patents.
- To educate our students, the ethical and moral values, integrity, leadership and other quality aspects to cater to the growing need for values in the society.

Programme Educational Objectives (PEOs)

- PEO1: Create value to organizations as an employee at various levels, by improving the systems and processes using appropriate methods and tools learnt from the programme.
- PEO2: Run an organization successfully with good social responsibility as an entrepreneur, making use of the knowledge and skills acquired from the programme.
- PEO3: Contribute to the future by fostering research in the chosen area as an erudite scholar, based on the motivation derived from the programme.

UPAGRAHA'19

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UPAGRAHA'19, a National-Level Technical Symposium conducted by the Department of Electronics & Communication Engineering, Sri Venkateswara College of Engineering, was hosted on the 26th September 2019 (Thursday). Cdr.L.Ganesh from the Indian Navy, Visakhapatnam and Shri BKS Gokul, Tech Leader, CISCO, gracefully accepted to preside over the event as the Chief Guests. The symposium included 8 purely technical based events aimed at improving various technical skills of the students.

SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING
IN ASSOCIATION WITH
THE INSTITUTION OF ELECTRONICS &
TELECOMMUNICATION ENGINEERS
PRESENTS



UPAGRAHA'19

MINI PROJECT	26.09.2019	CIRCUITRIX
TECH QUIZ	PROJECT EXPO	TECH JAM
LINE FOLLOWER	PAPER PRESENTATION	CODE 2 DUO

 UPAGRAHA2019 REGISTER AT
WWW.UPAGRAHA.INFO 
 ECEASSOCIATIONSVCE@GMAIL.COM SECRETARY
+91 9176803210
TREASURER
+91 8939607678

Message from HOD

It is a pleasure to head the department of Electronics and Communication Engineering at Sri Venkateswara College of Engineering. The department has been offering excellent value-based quality education in the field of Electronics and Communication Engineering, keeping in pace with the latest developments in technology through exemplary research. In keeping with the department's vision, the holistic development of the students is focused upon that instills a habit of continued learning and a sense of responsibility in them to contribute towards the betterment of society.

Upagraha'19 is one such attempt to provide a broad exposure to the students studying in our College. The students and staff of ECE department came together to conduct a National-level Intercollegiate Technical Symposium "Upagraha'19". This event was meant to motivate students to showcase their talent and also learn to improve their skills by interacting with various other college students from all over the country. A total of 234 students from 15 different colleges participated in the event leading it to a grand success. A lot of positive feedback had been received from the students who participated in the event which was really an overwhelming response. I would like to thank each and every student and faculty who made this event a huge success.

DR.S.MUTHUKUMAR
PROFESSOR/HOD-ECE

Message from Faculty Coordinator

I would like to thank my organizing team of the Upagraha'19 – the National-level Intercollegiate symposium for bringing together eight innovative and excellent competitions to help develop the technical skills of the students. It gives me immense pleasure that ECEA, IETE-SF and RAIC is able to organize various events like Circuitrix, Tech Jam, Paper Presentations and Project Expo for the benefit of the student community. I am sure that this symposium will serve as a platform for students from various disciplines to enrich their knowledge in various domains and share new ideas and their implementation aspects in their chosen field.

I thank the principal, the HoD, the faculties and the students for their efforts and support in making this event a grand success.

SMT.T.J.Jeyaprabha
Assistant Professor- ECE

About the Chief Guest



Commander L Ganesh is a decorated Indian Naval officer. He was commissioned into the Indian Navy as a Sub Lieutenant on 06 July 1998. The Officer has served in various Technical billets in the Navy. He has served in Naval Dockyards, Ships & Submarines during his career spanning 21 years.

The Officer volunteered for the submarine arm in year 2002 and since then has served onboard five submarines on the trot for which he has also been awarded with Long Sea Service Medal by the President of India. The Officer has the distinction of playing active role in various Military Operations including Op Vijay, Op Vijay Star and Op Parakram.

About the Chief Guest



Mr. Gokul, Technical Leader, Cisco, Bangalore, has 20 years of rich networking experience. He has worked for Lucent Technologies, Bangalore later named as Alcatel-Lucent. After a 11 year tenure in Alcatel-Lucent, Bangalore, he has worked for Ericsson, Bangalore and now working with CISCO, Bangalore.

He has worked real-time on technologies like GSM, ATM, Frame relay, and Ethernet; MPLS, IP and subscriber management protocols. He has work experience in Routing plane, signaling plane and data plane and currently working on Wireless controllers. He has submitted one patent and waiting for approval from USPTO.

Inauguration Ceremony



Upagraha'19 started with a formal inaugural function at 09:00am at Function Hall with the Chief guests Cdr. L.Ganesh, India Navy, Visakhapatnam and Shri. BKS Gokul, Technical Lead, CISCO. Dr.S.Muthukumar, HOD-ECE and Ms.T.J.Jeyaprabha, Asst. Professor were present on the dias with the chief guests.

The function started with an invocation song followed by welcome speech. Dr.S.Muthukumar, HOD-ECE gave introductory address to the student and guests with a cordial appreciation to the Department coordinators behind the grand symposium. Following, Cdr. L.Ganesh, Indian Navy gave a talk on "SONAR theory and its applications" and touched on all the basic principles and functionalities of the equipments. He shared his Navy experience with the students and motivated them to join Navy by showing motivational video and his achievements in Indian Navy. The talk, entirely, was very insightful and thought provoking with a good response from the students and faculties.

Mini Project

About 46 teams with 3 members in each team were shortlisted to present their project. This event was aimed towards making the aspiring engineering students to present their innovations.

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Each team had a clear statement of research objectives of their project.

The chief guest and the judges enjoyed the process of evaluation of different ideas.

WINNERS:

1) SUDARSHANA, SUSHMITHA, SUBHAPRIYA, II YEAR, ECE, SVCE.

2) MOHAMMEDSAHIL, KESHIKA, II YEAR, ECE, SVCE.

3) NIVEDHA, RISHABNATH, MADHAVARAM, II YEAR, ECE, SVCE.

4) HARRSHAVARDHAN, HARSHITHAHADITYA, II YEAR, ECE, SVCE.

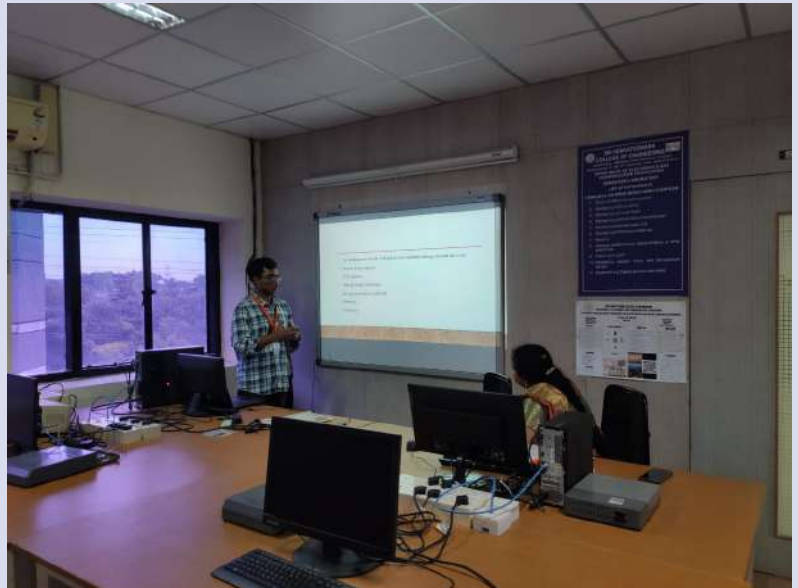
5) MANIMARAN, SAISANTHOSH, NAVEENPRASAD, II YEAR, ECE, SVCE.



Paper Presentation

The registered teams submitted their abstract beforehand, which were shortlisted to 8 finalist teams.

Each paper presentation was a maximum of 12 minutes for oral presentation followed by a brief question and answer period of 3 minutes.



WINNERS:

- 1) DHANUSH M,II YEAR,ECE, SVCE.
BHUVANESH J,II YEAR,ECE, SVCE.
KARTHIKEYAN S,II YEAR,ECE, SVCE.
- 2)JAILESHPERUMAL,II YEAR,ECE, SVCE.
DHARMASURYA.A,II YEAR,ECE, SVCE.
IRAIANBU. M,II YEAR,ECE, SVCE.
- 3) JAIKARTHICK S,II YEAR,ECE, SVCE.

Circuitrix

Circuitrix is an event that revolves all around circuits. This is an event with high participation of 48 teams. The teams must recognise and solve various circuits used in our daily lives.

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Students were presented with problems that require combined knowledge of the characteristics of circuits as well as knowledge of how components work.



WINNERS:

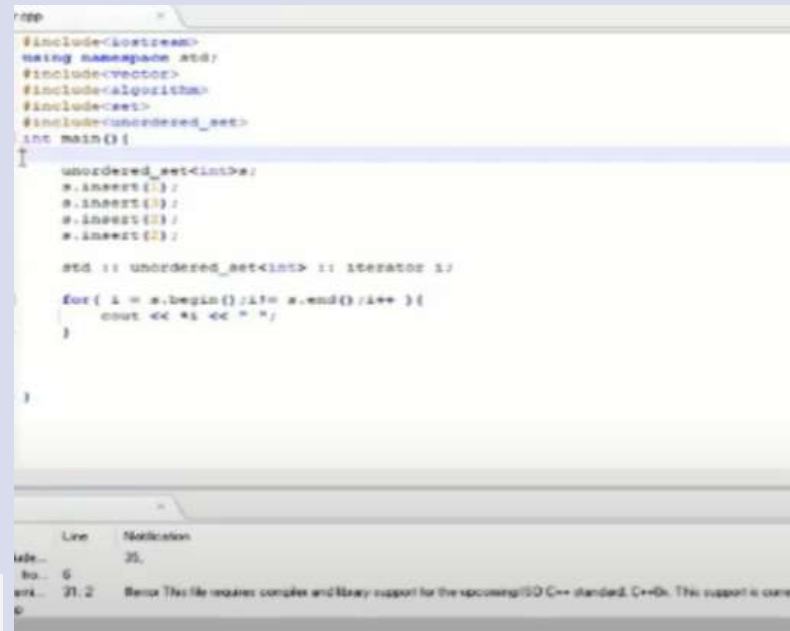
1)A.VIJAYKISHORE,R.YASWANTH, 3RD YEAR,ECE,RAJALAKSHMI ENGINEERING COLLEGE

2)FAHIMASHEERINM, UDAYACHANDRIKAN, 3RDYEAR, ECE, SAIRAM ENGINEERING COLLEGE

3)NISSHANTN.A, KARTHIK RAJAGOPAL, 1STYEAR, ECE, SVCE

Code 2 Duo (Coding)

Code 2 Duo is a great medium to brush up your programming skills. A total of 106 programmers participated in this contest. Problem statements from Hacker Rank were used for testing the participants.



```
1.cpp
#include<iostream>
using namespace std;
#include<vector>
#include<algorithm>
#include<set>
#include<unordered_set>
int main() {
    unordered_set<int> s;
    s.insert(1);
    s.insert(2);
    s.insert(3);
    s.insert(4);

    std::unordered_set<int>::iterator i;

    for ( i = s.begin(); i != s.end(); i++) {
        cout << *i << " ";
    }
}
```

Line	Notification
1	25.
5	6
21	2

Warning: This file requires compiler and library support for the upcoming ISO C++ standard, C++11. This support is currently experimental. For more information, please see [http://ericniebler.com/2014/02/27/c++11-support/](#).

WINNERS:

- 1) FEROSEMALIK.Z,BHARANIDHARAN.M
- 2) VIJAYARAGAVAN,VISHALS.K
- 3) KAVIVARUNS,SHANKARS

Tech Jam

Each participant was given a technical topic on which they have to talk for a minute. 30 seconds of preparation time was provided for every participant. Based on spontaneity, subject knowledge, and fluency, the students were shortlisted for the 2nd round.



WINNERS:

1) MOHAMMEDANAN, 4TH YEAR, CSE, SVCE

2) SURAJ S, 3RD YEAR, EEE, RAJALAKSHMI ENGINEERING COLLEGE

3) SUBASH S, 3RD YEAR, ECE, VALLIAMMAI ENGINEERING COLLEGE

Tech Quiz

Tech Quiz was an interesting quiz contest. A total of 63 teams actively participated. The students were given questions on circuit basics.

The winners were selected based on the correctness and time taken to finish the quiz.



WINNERS:

1)DIWAKARM, JENANI, 3RD YEAR, ECE, SRM EASWARI COLLEGE OF ENGINEERING

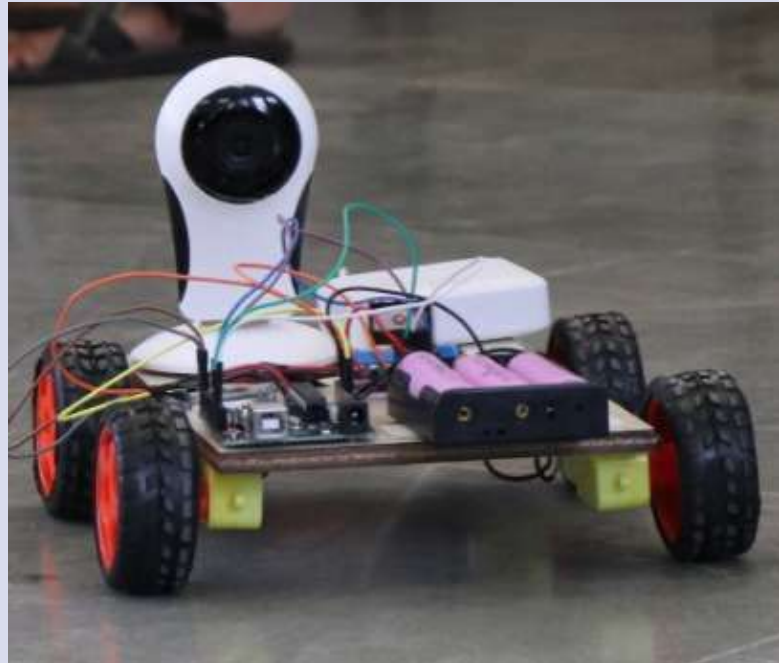
2)GOPALAKRISHNAN, ARUN, 3RDYEAR, ECE, RAJALAKSHMI ENGINEERING COLLEGE

3)SAMUEL, SHERIN, 3RDYEAR, ECE, RAJALAKSHMI ENGINEERING COLLEGE

Line Follower

This is a competition to test your basic robotics skills! A line follower robot is an automated vehicle capable of following a line without any human intervention.

Participants were asked to build a black line-following bot and follow the track prepared for them. It was a lively contest with cheering groups till the end.



WINNERS:

1) ROGER SAMUEL JOHN A , KIRUPA SHANKER G,
3RD YEAR, ECE, SAI RAM ENGINEERING COLLEGE

2) SURIYA KUMAR, TERESSA A LPHONSA, M
PRIYANKA , SAI RAM ENGINEERING COLLEGE

3) SUBASH S , 3RD YEAR , ECE , VALLIAMMAI
ENGINEERING COLLEGE

Project Expo

Project Expo is a technical event in which the participants should prepare their project at home and they have to bring the project to demonstrate before the judges. A total of 9 teams with 4 member in each team participated. A team member can participate in only one project presentation. Key Evaluation Criteria was Innovation, Design (Compactness and the efficiency of work done), Efficiency and relevance with practical need.



WINNERS:

- 1) SUNDARRAJ V, VIJAYALAKSHMI, 3RD YEAR, ECE, RAJALAKSHMI ENGINEERING COLLEGE
- 2) SAKTHISAILESHRAM, 3RD YEAR, ECE, SVCE

CHIEF GUEST:

CDR.L.GANESH FROM THE INDIAN NAVY , VISAKHAPATNAM

SHRI BKS GOKUL , TECH LEADER , CISCO



CHIEF PATRON:

DR.S GANESH VAIDYANATHAN, PRINCIPAL



CONVENOR:

DR.S MUTHUKUMAR, PROFESSOR & HOD, ECE

COORDINATOR:

MS.T.J.JEYAPRABHA, ASSISTANT PROFESSOR, ECE

CO-COORDINATORS:

MS. D.MENAKA, ASSISTANT PROFESSOR, ECE

MR. G.LOGANATHAN, ASSISTANT PROFESSOR, ECE



ORGANISING COMMITTEE:

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DR.N.KUMARATHARAN , PROFESSOR, ECE

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