



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University u/s 3 of UGC Act, 1956

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**  
VADAPALANI CAMPUS, CHENNAI - 26

# ESPIRITO

Volume 13

*Spirit of Engineers and Managers*

2019-20



Department of  
Computer Science  
& Engineering



Department of  
Mechanical  
Engineering



Department of  
Management  
Studies



Department of  
Electronics &  
Communication  
Engineering

**FOR PRIVATE CIRCULATION ONLY**



## University Rank Holders of 2019 Batch

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



**S PRIYADHARSHINI**  
RA1511004040018  
CGPA 96.63%



**S PAVITHRA**  
RA1511004040045  
CGPA 95.82%

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



**K S ANAND**  
RA1511003040243  
CGPA 96.68%



**AMAN KUMAR**  
RA1511003040002  
CGPA 96.05%

### FACULTY OF MANAGEMENT



**S DEEPTHIE**  
RA175201040012  
CGPA 91.5%



**E POOVIZHI**  
RA175201040062  
CGPA 90.6%



**P BALAGANAPATHY**  
RA175201040069  
CGPA 90.6%

### DEPARTMENT OF MECHANICAL ENGINEERING

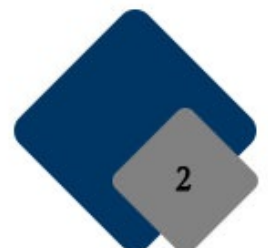


**S LAKSHMI NASASHIMAN**  
RA1511002040013  
CGPA 93.97%

## **SRMVMUN'19**



Fourth edition of SRM Vadapalani Model United Nations  
Department of English and Foreign Languages  
Date : 09 August 2019 to 11 August 2019  
SRM Institute of Science and Technology,  
Vadapalani Campus



## NCEABM' 19



National Conference on Emerging Approaches  
in Business Management-Divergent Perspectives  
and Dimensions

**Date :** 09 August 2019

**Resource Person**

Mr.Gopal Mahadevan  
WTD and CFO,  
Ashok Leyland Ltd.

## GUEST LECTURE

Stock market awareness and mock trading session-NSE

**Date :** 14 August 2019

**Resource Person**

Mr .R.Senthil Murugan  
Senior Manager ,  
Business Development -Southern Region



## GUEST LECTURE



My story session – Entrepreneurial Development

**Date :** 21 August 2019

**Resource Person**

MR. Suresh Chinnasamy,  
Director,  
Dosakkall Chain of Restaurants

## INDUSTRIAL VISIT

KKR Group Of Companies

**Date :** 30 August 2019

MBA I year

KKR Metal Components,

SIDCO Industrial Estate,

Ambattur



## GUEST LECTURE



Van Vyapara

**Date :** 26 September 2019

**Resource Person**

Padamashri Kalaimamani

Dr.Nalli Kuppuswamy Chetti,

Proprietor - Nalli Silks

## ALUMNI TALK – 2019

**Date :** 27 September 2019

**Resource Person**

Ms.Abenaya.G,

CEO, Hotel Adore Residency,

Ms.Varshaa.N,

Sr.Accounts Executive, Pick Your Trail,

Ms.Kavitha Iyappan ,

Junior Executive-HR/Cognizant Technology Solutions,

Ms.Manju Balakrishnan ,

Business Development Manager, Eveready Industries India Ltd,

Mr.Mahmood Zayeem,

M. N Data Scientist, Tata Consultancy Services



## KRIYA 2K19



A Business Model Golu

**Date :** 03 October 2019

## CAMPUS BAZAR

PRADARSHANEE 2019

**Date :** 11 October 2019

**Chief Guest**

Mr. Pyramid Natarajan,  
Entrepreneur, Actor, Producer and  
Founder of an Online Food Outlet “maavadu.in”



## A WORKSHOP ON BASIC LAW



LAWCTOPUS

**Date :** 14 October 2019

**Resource Person**

Mr. C. B. Murali Krishnan  
Senior Advocate

## INDUSTRIAL VISIT

Metal Craft  
**Date :** 15 October 2019

MBA I year

Metal Craft,  
Ambattur



## WORKSHOP ON EQUITY RESEARCH



The Wolf of Wall street

**Date :** 16 October 2019

**Resource Person**

Mr. Vivek Karwa  
Practicing certified personal financial advisor,  
Techno-Fundamental Analyst & Investment Strategist

## WORKSHOP

BESTinU

**Date :** 16 October 2019

**Resource Person**

Mr.Krithivasan,  
Head, Graduate Talent Program – India,  
Virtusa Consulting Services



## INDUSTRIAL VISIT



Ennore port

**Date :** 21 October 2019

MBA II year

## HEALTHY LIVING FACTS

Faculty Development Program

**Date :** 24 October 2019

**Resource Person**

Chef. Dr. Dhamodharan



## WORKSHOP

ASPIRE '19' Entrepreneurial Pitch'

**Date :** 19 November 2019

**Resource Person**

Mr.Krithivasan,

Mr. R.J.Vigneshkanth

RJ,VJ, Actor, Comedian,

Mr.Sheriff & Mr. Vivek ,

The Black Sheep, You Tube channel.

## VISIT TO BRITISH COUNCIL LIBRARY

Fresher's Visit  
Date : 12 July 2019



## ALUMNI TECH-TALK



The Roles and Challenges for  
Mechanical Engineers in Industries

Date : 19 July 2019

Resource Person

Mr.Thivyan.Mu

Assistant Manager- Business development,  
Godrej & Boyce Manufacturing Company Ltd

## INDUSTRIAL VISIT

Easun-MR Taps Changers Private Limited  
Mech. II year  
Date : 25 July 2019



## INDUSTRIAL VISIT



Monotech Systems  
Mech. I year  
Date : 25 July 2019

## INDUSTRIAL VISIT

Schwing Stetter  
Mech. I year  
**Date : 07 August 2019**



## INDUSTRIAL VISIT



Daimler India Commercial Vehicles Limited  
Mech. II & III year  
**Date : 13 August 2019**

## INDUSTRIAL VISIT

Grundfos Pumps  
Mech. II year  
**Date : 16 August 2019**



## INDUSTRIAL VISIT



Integral Coach Factory  
Mech. I year  
**Date : 23 August 2019**



## DESIGN CONTEST-AAKRUTI 2019

A National Level Product Design Contest  
AAKRUTI 2019

**Date :** 16 September 2019

**Chief Guest :**

Dr.A.P.Haran

Retd. Wing Commander – IAF

Mr.Prasanna

Territory Technical Manager, Dassault Systems India

Mr.Paramanathan

Senior Engineer Wittur Elevator



## NATIONAL LEVEL TECHNICAL SYMPOSIUM



KRATORQ'19

**Date :** 20 September 2019

**Chief Guest**

Mr.M.Sathyanandan,

General Manager Product Development -Engines,  
Ashok Leyland, Chennai

## INAUGURAL FUNCTION-IIF

The Institute of Indian Foundrymen (IIF)

**Date :** 01 October 2019

**Chief Guest**

Shri. Sanjay Shroff

President – IIF

Mr.Dhayalan

Secretary IIF



## TECHNICAL PROGRAM FOR MECHANICAL STUDENTS

Technical Talk  
**Date** : 12 October 2019

**Resource Person**  
 Mr.S.Nadimuthu,  
 Executive Director-marketing,  
 R&D SNAM alloys Pvt Ltd



## BASICS OF IPR AND PROCEDURE TO FILE A PATENT



Workshop

**Date** : 14 October 2019

**Resource Person**

Mr.Udaya Shankar,  
 Assistant Controller of Patents  
 and Designs Patent Office,  
 Chennai

## NATIONAL CHAMPION IN SAILING SPORT

Ms.Nethra Kumanan,  
 National champion of single handed sailing  
 Abu Dhabi open Regatta '19  
 14th-19th October.  
 She is currently undergoing training  
 to participate in Olympics 2020



## IET PATW CLN FINALS 2018 - 19

Mr.Rahul Reddy ,CSE Dept.  
Winner  
IET PATW CLN Finals 2018-19  
Date : 21 July 2019



## WORKSHOP



Aurdino Line Follower  
Date : 30 July 2019 and 31 July 2019  
Venue : Communications Lab

## NATIONAL SEMINAR

5G – Beyond the hype  
Date : 31 July 2019 & 01 August 2019  
Resource Person  
Mr.Agni  
Nokia Solutions & Networks Ltd  
Mr. Sudarshan Pitty  
Nokia Solutions & Networks Ltd



## IET TECHNICAL TALK



Artificial Intelligence  
Date : 1 August 2019  
Resource Person  
Mr. Shubham Saraff  
IET PATW Global Finals 2017 Winner  
and an AI Start-up founder

**INDUSTRIAL VISIT**

Nokia Solutions & Networks Ltd,  
Oragadam  
**Date** : 01 August 2019 and 06 August 2019

**SEMINAR**

Computer Networks And Cyber Security

**Date** : 5 August 2019

Mr.BolemSrinivas

Scientist at NIOT

**WORKSHOP**

Introduction To Python Programming  
Conducted for the students of ECE department

**Date** : 9 August 2019

**WORKSHOP**

Smart Devices Design Using  
Intelligent Learning Algorithms

**Date** : 19 August 2019

**Venue** : Communications Lab

**Resource Person**

Dr.Athif Shah

Founder and CEO

ABE Semiconductor Designs

and his team members

## WORKSHOP

Mobile Controlled Robot  
**Date :** 20 August 2019  
**Venue :** Communications Lab



## ABHIGYAN'19



A National Level Technical Symposium  
**Date :** 22 August 2019 and 23 August 2019  
**Chief Guest**  
 Mr. S.Mukundhan,  
 Founder Director & Head,  
 FLEXOL Packaging Limited  
 Mr. Vijay Anand,  
 Vice President IT & Compliance,  
 Visionary RCM Infotech

## WORKSHOP

IET CLN Rebranding Workshop  
**Date :** 13 September 2019  
**Chief Guest**  
 Ms. Shreya Bajaj  
 Marketing Executive, IET



## GUEST LECTURE



Latest Trends in Automotive Industry and  
 Importance of Electrical/electronic  
 Controls in a Car  
**Date :** 25 September 2019  
**Resource Person**  
 Mr.Kaushik Subramanian,  
 Technical Leader,  
 Renault Nissan Technology and  
 Business Centre

**IET CLN & YP AWARDS 2018 - 19****Date :** 28 September, 2019**Winners**

IET YP Leadership Award

Mr.Akash, Final Year, CSE Dept

IET YP Trendsetter of the year Award

Mr.M. Arvind Balaji, Final Year, Mechanical Dept

IET YP Activity Award

Mr.Surya Kailash, Final Year, ECE Dept

IET YP Academic Performance Award

Mr.Jerry Joy, Final Year, CSE Dept

**IET CLN SMART CITY CHALLENGE 2019**IET Chennai Local Network  
Smart City Challenge**Date :** 28 September 2019**GUEST LECTURE**

IET CLN Smart City Challenge

**Date :** 14 October 2019**Resource Person**

Dr.Gopal.A

Chief Scientist and Scientist in-Charge,  
CEERI-CSIR Chennai**GUEST LECTURE**

Cloud Computing

**Date :** 3 October 2019**Resource Person**Ms.Hema Paneerselvam,  
Cloud computing Architect

## FACULTY DEVELOPMENT PROGRAM

Seminar on Stock Trading  
for the Beginners

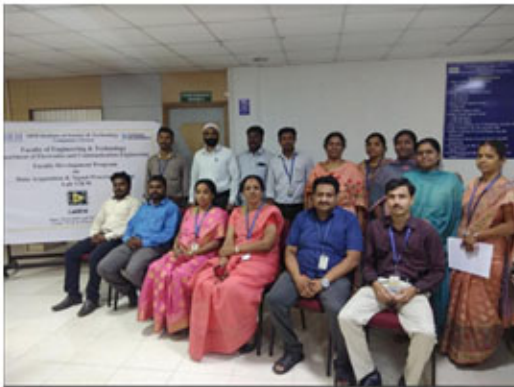
**Date :** 31 October 2019

**Resource Person**

Mr. Maria Sundarapandian  
NISM Certified Derivatives Strategist,  
NISM Certified Research Analyst



## FACULTY DEVELOPMENT PROGRAM



Data Acquisition and Signal Processing using NI LabVIEW

**Date :** 25 November 2019 and 26 November 2019

**Resource Person**

Mr. Muralikrishnan  
NI academic consultant  
Mr. Prakash  
certified LabVIEW trainer

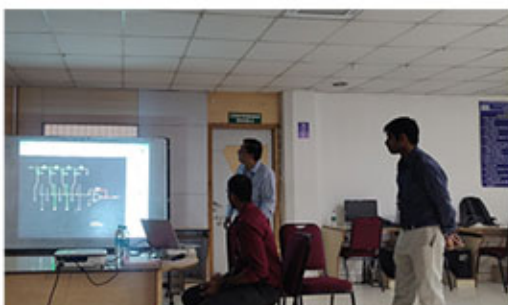
## VISIT TO FLEXOL AND TVS LOGISTICS

Industry Institute Interaction  
Visited by HoDs and Dean

**Date :** 20 November 2019 and 05 December 2019



## FACULTY DEVELOPMENT PROGRAM



Workshop on E-circuit for Circuits  
Design and Analysis

**Date :** 07 November 2019

**Resource Person**

Dr. Rajeev Sukumaran,  
Head – The SRM Centre for Applied Research  
in Education

## WORKSHOP

**Ethical Hacking and Information Security**

**Date : 1 August 2019 & 2 August 2019**

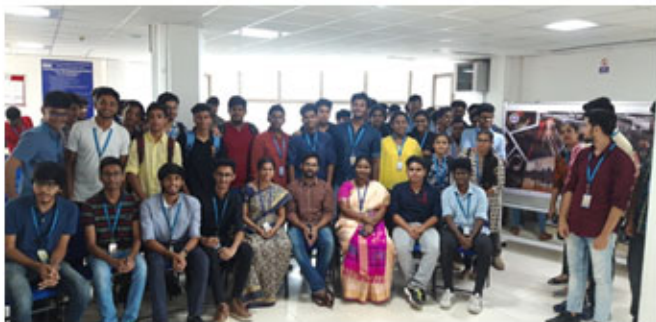
**Resource Person**

**Mr. Sachin Dedhia,**

**CEO and Founder of Skynet Solutions**



## WORKSHOP



**Photography, Photoshop and Video Editing**

**Date : 6 August 2019 and 7 August 2019**

**Resource Person**

**Mr. S.Gnanavel Pradeep**

**Editor [Vrithra –Kannada Movie], 23 Studios**

## WORKSHOP

**Machine Learning in Computer Vision**

**Date : 8 August 2019 & 9 August 2019**

**Resource Person**

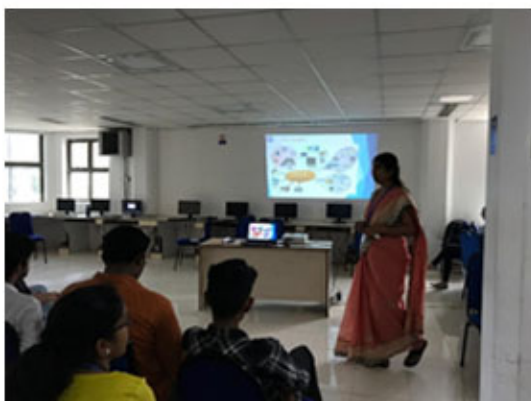
**Mr. Blessin George Verghese &  
Team from SRM Kattankulathur**

**Dr. V. Mohan Raj,**

**Data Scientist, Renault Nissan**



## WORKSHOP



**Internet of Things-Convergence of Technologies**

**Date : 13 August 2019 and 14 August 2019**



## WORKSHOP

Unleashing the Power of Data Analytics  
**Date : 22 August 2019 and 23 August 2019**

**Resource Person**  
Dr. Sri Vallabha Deevi  
Senior Data Scientist,  
Tiger Analytics



## WORKSHOP



Web Development using Spring Boot  
**Date : 26 August 2019 and the 27t August 2019**  
**Resource Person**  
Dr. T. Ruso, Associate Consultant  
Wipro Ltd, Sholinganallur, Chennai

## WORKSHOP

C Programming in a better way  
**Date : 27 August 2019 to 29 August 2019**



## SEMINAR



National Seminar on E-mobility  
**Date : 27 August 2019**  
**Resource Person**  
Dr. Anand Gurupatham- Dy General Manager ,  
Renault Nissan Technology and Business Center

## UBERTECH '19

A National Level Technical Symposium

**Date :** 30 August 2019 and 31 August 2019

**Chief Guest**

Mr. Rajendran Dandapani,  
Engineering Director, Zoho Corporation

Mr. Paramasivam Sundaresan,  
Senior Manager,  
Renault Nissan Technology & Busines Centre



## SEMINAR



Web Development using Javascript and Reactjs

**Date :** 7 September 2019

**Resource Person**

Ms. Ankita Mishra  
India Community Associate

Mr. Shun Uno  
PROGATE Tokyo Headquarters

## WORKSHOP

Salesforce Students Program ADX-201

**Date :** 30 September 2019 to 10 October 2019

**Chief Guest**

Ms. Kamatchi Devi  
Sales force trainer ,  
ICTACT.



## WORKSHOP



Leadership and Ownership

**Date :** 15 October 2019

**Resource Person**

Maj Gen A Arun YSM,  
SM, VSM ,  
Deputy Commandant and Chief Instructor ,  
Officers Training Academy, Chennai

## OUTREACH PROGRAMS



**Date :** 11 October 2019 and 12 October 2019  
Chennai Public School, Thirumazhisai



**Date :** 23 October 2019 and 24 October 2019  
B.V Bhavan's Rajaji Vidyasharam



**Date :** 16 October 2019 and 17 October 2019  
Maharashi Vidya Mandir



**Date :** 23 October 2019 and 24 October 2019  
B.V Bhavan's Rajaji Vidyasharam



**Date :** 22 October 2019 to 23 October 2019  
KRM Public School, Perambur



**Date :** 09 November 2019 and 10 November 2019  
Vidya Mandir Senior Secondary School,  
Mylapore, Chennai

**FACULTY DEVELOPMENT PROGRAMME**

Analytics and Machine Learning

**Date :** 11 November 2019 to 13 November 2019**Resource Person**Dr. Ramamoorthy,  
Associate Professor, CSE Department,  
SRM IST, KattankulathurDr. K.A. Vidhya  
Anna UniversityDr. Abhijit Balaji,  
Data Analyst, SPI Global**FACULTY DEVELOPMENT PROGRAMME**A Hands-on Approach for the Design and  
Implementation of Deep Learning in Cloud**Date :** 13 November 2019 to 15 November 2019**Resource Person**Dr. Ajantha Devi,  
Research Head, AP3 Solutions,Dr. Mohan Raj,  
Data Scientist, Renault Nissan Technology**FACULTY DEVELOPMENT PROGRAMME**

Blockchain and Beyond

**Date :** 18 November 2019 to 22 November 2019**Resource Person**Dr Nitin,  
Associate Professor and Head Information Security at IIM,  
ShillongDr Balaji,  
Associate Professor, SSN College, Chennai**FACULTY DEVELOPMENT PROGRAMME**

Image Processing using Matlab

**Date :** 25 November 2019 to 27 November 2019.

## FACULTY DEVELOPMENT PROGRAMME

Cyber Crimes, Cyber Security and Digital Forensics

**Date :** 5 December 2019 and 6 December 2019

**Resource Person**

Dr.R.Thilagaraj,  
Director-Admin, Centre of Excellence in  
Digital Forensics & Chairman ICRES

Mr.Vijayakumar  
Former AGM – IT, KVB

Mr. Ramesh  
Senior Information Security Consultant,  
US Technology International Pvt. Ltd, Chennai



## WORKSHOP



Demystifying Microservices Orchestration using  
Docker and Kubernetes

**Date :** 28 August 2019

**Resource Person**

Dr.Udhaykumar , Professor,  
Rajalakshmi Engineering College ,Chennai

## SEMESTER ABROAD PROGRAM



Mr.Shakhthivel  
RA1611003040030  
TEESSIDE UNIVERSITY



Mr.Jerry Joy  
RA1611003040029  
NATIONAL TAIPEL UNIVERSITY

## PROUD MOMENT

Happy to share that Mr.Hriday Sanghvi, 2019 passed out has got his direct admission to PhD in Trinity College. He is one B.Tech student who has published his UG project in Springer nature journal, a very highly referred journal. He has got his PhD admission in the Artificial intelligence domain.

## INDUSTRIAL VISIT



**III year CSE**

Technovalley Software India Pvt Ltd',  
Edapally in Ernakulam district, Kerala



**I year CSE**

ISRO Launch Base station to Satish Dhawan  
Space Centre (SDSC) SHAR, Sriharikota

## STUDENT ACHIEVEMENTS



Shree Music Academy organized Guinness  
World Record

**Date :** 06 October 2019

“Best Institution Award” and “Best Teacher Award “

**Students:**

Mr.Surya Kiran  
Mr.Abhishek Chandar  
Mr.Akshay Srinivasan  
Mr.Rishabh Singh  
Mr.Rinkesh Gorasia  
Mr.Gaurav Rai  
Mr.Manmohan Singh  
Mr.Shrirup Banerjee  
Mr.Vignesh Shankar



Winners  
&  
Runners



**HackSRM**

**Date :** 28 September and 29 September 2019

III & IV year CSE



Mr.Shravan  
Third place in Cricket Tournament  
Founders Day  
SRM Kattankulathur  
17 August 2019 to 22 August 2019.



Mr. Yashwanth Raghav, III year CSE  
Bronze medal in Tennis (Doubles),  
SRM Open



Mr. Surya, Mr. Abhishek Chandar, Mr. Vignesh Shankar and  
Mr. Shrirup Banerjee, III year CSE  
Date : 07 December 2019  
Winner  
Infineon Campus Hackathon,  
Bangalore

Ms. Varshini, III year CSE  
Won 3rd Women Grandmaster norm  
Riga Technical University Chess festival 2019,  
Latvia



Mr. Arjun Raj, II year CSE won the following trophies:  
1. Tamil Nadu Chief Ministers Trophy - Winner  
2. Loyola Trophy - Winner  
3. SRM Trophy - Winner

# EDITORIAL TEAM

## Patrons

Dr. C. Muthamizchelvan    Mr. J. Chandrakumar IAS (Retd)  
Director (E&T)                      Director Admin

## Advisor

Dr. K. Duraivelu  
Dean (E&T)

## Principal Coordinators

Mrs. S. Latha Bhuvaneshwari - A.P (CSE)  
Dr. Golda Dilip - Asso.P (CSE)  
Mrs. K.Meenakshi - A.P (CSE)  
Mrs. Deepa.R - A.P (CSE)

## Editorial Team (Faculty)

Dr. S. Kesavan - HoD (DoMS)  
Dr. C. Gomathy - HoD (ECE)  
Dr. S. Karthikeyan - HoD (Mech.)  
Dr. S. Prasanna Devi - HoD (CSE)  
Ms. P. Poomathi - HoD (EFL)  
Dr. K. Ramachandran - HoD (Physics)  
Ms. R. Archana Prasanthi - A.P (ECE)  
Ms. R. Sathiya - A.P (ECE)  
Ms. Mohanasundari V - A.P (DoMS)  
Ms. Meena Priyadharshini - A.P (Mech.)  
Ms. S. V. Padma Rao (Student Coordinator)

## Editorial Team (Student)

Gokul Kumar K - RA1611003040091 (CSE)  
M Anjana - RA1711003040163 (CSE)  
Sriram R M - RA1811003040152 (CSE)