



SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING

About the Institution

Sree Chitra Thirunal College of Engineering (SCTCE), Thiruvananthapuram was established by the Govt. of Kerala in the year 1995 in memoriam of Sree Chithira Thirunal Balarama Varma, the Great Maharaja of Travancore. It is one among the top engineering college in the state of Kerala. The institution has the broad objective of being an active agent of change by responding to the needs and challenges of the times by grooming young men and women into technocrats through the process of engineering education, training and research. Exposing the young minds to the world of technology, SCTCE instills in them plenty of confidence and fortitude to face new challenges and triumph in their chosen areas. The National Board of Accreditation has given accreditation to four branches of this college which includes the Department of Electronics & Communication Engineering. The department offers B.Tech, M.Tech and Ph. D programmes under APJ Abdul Kalam Technological University.

Vision of the Institution

To become an engineering and technology institution which is renowned for producing professionally capable and socially responsible engineers.

Mission of the Institution

To create a learning process for students to acquire engineering fundamentals, in an environment that encourages analysis, team work, entrepreneurship and ethical values, thus preparing them for productive careers.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

About the Department

The department of Electronics and Communication Engineering was established during the inception of the institute, in the year 1995. The department grew into a full fledged one with two batches in the year 2001. The annual intake for undergraduate (B.Tech) programme is currently 120 students. A postgraduate programme (M.Tech) in Signal Processing, with an annual intake of 18 students, was started in the year 2011. The department is an approved research centre under APJ Abdul Kalam Technological University Kerala (KTU) from 2016 and currently there are 6 research scholars in the department. With its state of the art facility and a highly qualified faculty, this department is the best among its counterparts in Kerala. The focus of the department is to produce graduates and post graduates with strong fundamentals in electronics and communication domain and experience in the latest happenings of the industry, so that they can meet the upcoming challenges in the field.

Vision of the Department

To be a centre of quality education and research in the field of Electronics and Communication Engineering, to mould socially responsible engineering professionals.

Mission of the Department

Provide a systematic teaching-learning process, aiming quality education, in an ambience that encourages research, industry interaction and value-based education.



SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING

Pappanamcode, Thiruvananthapuram - 695018

Dept. of Electronics & Communication Engineering
Faculty Development Programme on

Research Perspectives of Machine Learning & Deep Learning for Signal Processing Applications

Sponsored by
APJ Abdul Kalam Technological University
Kerala, India

2021
SEP
6-10
Online
Mode



About the Programme

Present "Big Data Era" demand technologies that provide high value predictions which leads to better decisions and smart actions in real time without human intervention. Machine and deep learning methodologies help to perform various data analytics in order to make sense of the data for smarter actions.

This faculty development programme (FDP) is intended to provide a platform for faculty, research scholars and post graduate students, to upgrade their knowledge and acquire skills in the fundamentals of machine learning and deep learning techniques and its applications in various signal processing domains.

Topics to be Covered

- 1 Perspectives of Machine Learning & Deep Learning Algorithms
- 2 Overview of different ML algorithms with its mathematical foundations
- 3 Introduction to Gradient Descent Algorithm and its applications in Machine Learning
- 4 Preference learning in socio-sensing systems
- 5 Deep learning based algorithms for Image Analysis
- 6 Deep Learning for Medical Image Analysis/Processing
- 7 Deep Learning for Natural Language Processing
- 8 Machine Learning Techniques in Audio Processing
- 9 Deep unfolding for signal processing
- 10 Deep Learning for Computer Vision

Organizing Committee

Chief Patron.....
Shri. Antony Raju
The hon'ble minister for Transport, Kerala
(Chairman, Board of Governors, SCTCE)

Patron.....
Dr. Jayasudha J. S
The Principal V.C. SCTCE

Convenor.....
Dr. Sheeja M. K
Professor & Head, Dept. of ECE, SCTCE

Coordinators.....
Prof. Bindu V
Associate Professor, Dept. of ECE, SCTCE

Dr. Lakshmi V. S
Assistant Professor, Dept. of ECE, SCTCE

Intended Audience

The faculty members of the AICTE/UGC approved institutions, Research Scholars, PG Scholars, participants from the Government organizations, Industry (Bureaucrats / Technicians / Participants from Industry etc.) and staff of host institutions. Number of participants for FDP are LIMITED to 60.

Important Dates

Submission of Application
03/09/2021

Date of Intimation
04/09/2021

Date of Confirmation
05/09/2021

The selected candidates will be intimated through email only

Registration Details

No registration fee for the participants

Link for registration:
<https://forms.gle/MLuWt-fqTvY2YAJ9o8>

OR
Scan
This QR Code



Address for Correspondences

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Faculty Development Programme Speakers



Dr. Ram Prasad K
Shiv Nadar University
Chennai



Dr. Birenjith P S
Government Engineering College
Barton Hill, Thiruvananthapuram



Dr. Sowmya V
Amrita Center for Computational Engg
and Networking (CEN)
Coimbatore Campus



Dr. Sinith M S
Government Engineering College
Thrissur



Prof. Jeena Kleenankandy
Amrita School of Engineering,
Amrita Vishwa Vidyapeetham
University, Coimbatore



Dr. Sumitra S
IIST
Thiruvananthapuram



Dr. Anup Aprem
National Institute of Technology
Calicut



Mr. Sajith Warriar
Amrita Vishwa Vidyapeetham
Coimbatore Campus



Dr. Deepak Mishra
IIST
Thiruvananthapuram



Dr. Lakshmi Narasimhan
Indian Institute of Technology,
Palakkad



Dr. Varun P. Gopi
National Institute of Technology
Tiruchirappalli