SIX DAYS
FACULTY DEVELOPMENT PROGRAMME

ADVANCES IN DEEP LEARNING APPROACHES

Organized by

**Department of
Computer Science and
Engineering,**
College of Engineering Trivandrum

Sponsored by
**Directorate of Technical
Education Kerala**
March 8th - 13th, 2021

ABOUT THE COLLEGE

College of Engineering Trivandrum was established in 1939 as the first Engineering College in the then Travancore State. The College started as a constituent College of Travancore University with an initial intake of 21 students, each for Degree and Diploma courses in Civil, Mechanical and Electrical branches. With the establishment of the Directorate of Technical Education in the late fifties, the College administration came under the control of the Government of Kerala. Over the years, the intake of students increased and as of now with eight full-fledged departments offering eight undergraduate, 27 postgraduate and doctoral programmes under the APJ Abdul Kalam Technological University. The College has around 4500 students, 311 teaching staff, and 290 non-teaching staff. Ever since the inception, the College has maintained its eminence as a leading Engineering College in India. The College ranks among the top in the country in the quality of its graduates and the number of top jobs held by its graduates. With such eminence in the academic and curricular activities, the College is the most sought after Engineering College by Engineering aspirants in the state.

ABOUT THE DEPARTMENT

The first B.Tech course in Computer Science and Engineering in the State was started in this department in the year 1984. Presently, the department offers B Tech CSE (intake 120), M Tech (CS), M Tech (IS), M Tech (AI),an Inter-disciplinary programme and Ph. D

The department has the fortune of having the best students through the Common Engineering Entrance Examination conducted by the State. Their academic excellence is reflected in the best placement history of the department, as well as the significant number of students gaining admissions for higher studies in institutions of national and international repute.

Vision
To be a centre of excellence in education and research in the frontier areas of Computer Science and Engineering.

Mission
- To facilitate quality transformative education in Computer Science and Engineering.
- To promote quality research and innovation in technology for meeting global challenges.
- To transform students to competent professionals to cater to the needs of the society.

ABOUT THE PROGRAMME

Deep Learning:

Deep Learning has made evolutionary advances in Machine Learning and Artificial Intelligence. It fascinate us with endless possiblilties in applications such as self driving cars, fraud detection, natural langauge processing, visual recognition, health care systems and many more.

COURSE OBJECTIVES

🚶 Introduce theoretical concepts of Neural Networks and Deep Neural Networks

🚶 Identify the deep learning algorithms which are more appropriate for various types of learning tasks in different domains.

🚶 Illustrate the practical implementation of different deep learning models

COURSE CONTENTS

- Artificial Neural Networks
- Convolutional Neural Network Architectures
- Recurrent Neural Networks and LSTM
- CNN Applications – Natural Language Processing
- CNN Applications – Speech Recognition
- Recent Advances in Deep Learning

TARGET GROUP

Faculty Members from Engineering Colleges (open to all branches), with basic knowledge in Machine Learning

RESOURCE PERSONS

1) Dr. Jiji C V, Principal, College of Engineering Trivandrum
2) Dr. Salim A, Professor, College of Engineering Trivandrum
3) Dr. Ajeesh Ramanujan, Assistant Professor, College of Engineering Trivandrum
4) Mr. Harikrishnan H, Lead Data Scientist, Airtel Xlabs, Bengaluru

COORDINATOR

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IMPORTANT DATES

Last Date of Application	:	**03-03-2021**
Date of Intimation about Selection	:	**05-03-2021**
Dates of the FDP	:	**08-03-2021**
		to 13-03-2021

REGISTRATION LINK

http://admissions.dtekerala.gov.in/ tpms/homeOA

INSTRUCTIONS

- No registration fees for faculty from Government and Aided Colleges.
- Registration fee of Rs. 500/- per person shall be charged from participants of Self Financing (Government Sponsored / Private) / outside Kerala institutions.
- Selection Criteria - A limited number of seats (90) are there, and will be decided based on first-come-first-serve basis.
- Selected candidates will be intimated through mail only.
- Details of fee payment for registration will be communicated to the participants from self-financing / outside Kerala institutions through email. The payment deails such as bank transaction receipt / UTR number and bank name are to be forwaded to *salim@cet.ac.in* prior to the programme.
- Certificates will be issued to the participants after successful completion of the programme.
- Google Classroom and Meet will be used as online platforms to conduct the training programme.

COMMUNICATION ADDRESS

Dr. Salim A
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