
## ABOUT THE INSTITUTION

College of Engineering Perumon was founded in the year 2000 by the Co-operative Academy of Professional Education (CAPE), which was established by the Government of Kerala. The college offers four undergraduate programs (ME, ECE, EEE & CSE) and M. Tech course (Computer and Information Science) affiliated to APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY (KTU) and approved by All India Council for Technical Education (AICTE).

## ABOUT THE DEPARTMENT

The Department of Electronics and Communication established in the year 2000, has two sanctioned batches for B.Tech in ECE. . The department is accredited by NBA for 3 years up to 2022. The department has always been on a high growth path to keep pace with the ever increasing importance of the major disciplines of study and current technology trends. It is provided with good infrastructural facilities like well equipped laboratories, library, well qualified and experienced faculties and technically sounded supporting staff which help to mould engineering graduates of high caliber who excel in acdemics and industry.

## VISION AND MISSION OF DEPARTMENT

### Vision

To mould high quality promising and creative engineering professionals in the field of Electronics and communication for better living and the future of the global society.

### Mission

- Create a unique learning environment to equip students excel in technical, personal and social life to emerge as a professional.
- Establish a research and an innovative culture to suit the needs of the society

## AICTE Training And Learning (ATAL)

The ATAL academy was established on 24th September 2018 with the objective to plan and help in imparting quality technical education in the country, and to assist technical institutions in advancing research, innovation, and entrepreneurship through training. The Academy stresses upon empowering technical teachers and technicians using Information and Communication Technology. The academy provides a variety of opportunities for training and exchange of experiences, such as workshops, orientation, learning communities, peer monitoring, and other FDPs.

# AICTE Training And Learning (ATAL) Blended/ Hybrid Faculty Development Program

## on

## "Concepts and applications of machine learning and deep learning for real world problems with hands on training using python"

**10th October - 21st October 2022**

*Organized By*

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**(NBA Accredited 2018-2022)**

College of Engineering PERUMON

**COLLEGE OF ENGINEERING PERUMON**

(Under CAPE, established by Govt. of Kerala)
Perinad P.O. Kollam. Kerala. Pin 691601

www.perumonec.ac.in

## ORGANISING COMMITTEE

*Patron*

**Dr. S Jayakumar**

***(Director CAPE)***

*Chairperson*

**Dr. Bindu S J**

***(Principal)***

*Convenor & Co Ordinator*

**Dr.V Praseedalekshmi**

***(Professor & HOD)***

*Course Co Ordinators*

***Prof. Pradeep T S (Associate Professor)***

***Mob: +91 9447411661***

***Prof. Surjith.S (Assistant Professor)***

***Mob: +91 9745108232***

## HOW TO APPLY

**The registration for attending the FDP is through the following link atalacademy.aicte-india.org and submit the google form attached**

**https://forms.gle/2mSCDZps9WS9wRSy9**

**Any queries can be mailed to**

**pradeep.tvm@gmail.com**

## REGISTRATION FEE

**No registration fee is charged from the participants No TA, DA Accommodation provided to the Participants**

## TARGETED PARTICIPANTS

**Assistant Professors/Associate Professors/Ph.D. scholars/PG students Min/Max Limit- 30/50 participants from the HEIs from the same city/within 100 km of host institute**

## TIME SCHEDULE For FDP (Hybrid)

**Online Mode :10-15 October 2022 (7 pm-9:30 pm)**

**Offline Mode :17-21 October 2022 (9:30 am-5:00 pm)**

## COURSE PLATFORM

**The FDP will be conducted through blended/ hybrid mode. The details of online platform will be communicated to the selected candidates through their registered e-mail. The assessment will be done through online mode. The certificate will be awarded to those who have minimum attendance of 80% and Overall marks 70% to receive a certificate, 90% and above for distinction**

## COURSE OBJECTIVE

**This course aims at giving the faculties irrespective of their trade, an insight into the basics and real world applications of Machine Learning and Deep Learning. The sessions will be handled by the experts from academic and technical streams. The course also covers case studies along with hands on training using python.**

## RESOURCE PERSONS

**Sessions will be handled by eminent personalities from higher learning institutions and experts from industries**

## COURSE OUTLINE

- **Deep learning basic concepts and applications**
- **National Education policy (NEP) 2020 Implementation**
- **Case studies: Application of Machine Learning Algorithms for Computational Drug Discovery**
- **Case studies: Cervix Type Detection by a novel object detector - EfficientCentreDet**
- **ML For computer Vision**
- **Research Methodology**
- **Indian values & ethos, classroom conduct& behaviour**
- **Deep learning for image classification**
- **Linear algebra and matrix operation using python**
- **Machine Learning using Python**
- **Speech and signal processing using deep learning**
- **Time and Stress Management**
- **Hands on training of linear algebra and matrix operation using python**
- **Hands on training on Machine Learning using Python**
- **Hands on training of speech and signal processing using python**
- **Industrial Visit CDAC**