



## About the Institution

Vimal jyothi engineering college is an educational project of Archdiocese of Thalasseri established in the year 2002 and is managed by Meshar diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University. VJEC is a self financing catholic minority institution which provides quality education in engineering and technology. We offer M.Tech and B.Tech programmes in Electronics& Communication Engg. , Electrical & Electronics Engg., Computer Science and Engineering , Mechanical Engineering ,Civil Engineering , Applied Electronics & Instrumentation and Artificial intelligence and Data Science areas. Four departments of our college are accredited by NBA. The Institution is also accredited by NAAC and certified by ISO 9001:2015.

## INFORMATION FOR THE PARTICIPANTS

### Eligibility

The FDP is open to faculty members of the AICTE approved institutions, research scholars, PG scholars, participants from Government and Industry.

### Registrations Details

All the participants are requested to register online by filling the following form.

<https://forms.gle/TjL49x268Bxgv9YE6>



**On or before 22nd April 2021**

**Registration for all the participants is mandatory.**

- 01** ONLINE SESSION DETAILS WILL BE COMMUNICATED TO THE REGISTERED PARTICIPANTS THROUGH EMAIL
- 02** REGISTRATION IS FREE.
- 03** E-CERTIFICATE WILL BE ISSUED TO THOSE PARTICIPANTS WHO ATTEND ALL THE SESSIONS.



IETE Sponsored

5 days

**Online Faculty Development Program**

on



**“PYTHON FOR ENGINEERS”**

**26th April 2021-30th April 2021**

Organized by

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**VIMAL JYOTHI ENGINEERING COLLEGE**

**Chemperi, Kannur, Kerala-670632**

[www.vjec.ac.in](http://www.vjec.ac.in)



## ABOUT THE DEPARTMENT

The department of Electronics & Communication Engineering was established in 2002. The department offers B.Tech program in Electronics & Communication Engineering and M.Tech program in Communication Engineering and Signal Processing. The department of ECE works with a vision to become the pacesetter in Electronics & Communication Engineering. In addition to providing quality education in the area, we educate the students about professional and ethical responsibilities and also train them to build life skills for their career development.

## OUR VISION

To bloom in to a centre of excellence for technical education and a pace setter in rural India with its quality processes and procedures, interwoven with freedom of flexibility, moulding professionals of superior quality ,dedicated to the progress and development of humanity.

## OUR MISSION

To prepare the students to see beyond geographical limit and belong to a new age of acquisition and application of technology to meet the challenges of the changing world inspired and guided by gospel values, we contribute to the socioeconomic welfare of the country with due concern to the marginalized.

## ABOUT THE COURSE

Python has become the most popular and powerful tool for various engineering applications including machine learning /data science. The powerful libraries of Python are suitable to build any complicated engineering systems. This FDP covers the basics of Python language with an introduction to common libraries such as NumPy, Pandas & Matplotlib. Data/graphical analysis also will be performed for the corresponding topic. In addition to this an introduction to artificial intelligence, machine learning & deep learning also will be given so that participant may be able to develop their own systems for various engineering applications.

## SYLLABUS

Introduction to Google Colab. Python Fundamentals- Numeric/Boolean data type, strings, list-slicing, iteration, comprehension dictionary-iteration and comprehension, tuples, functions& classes. Introduction to Python, Overview of Python applications. Introduction to NumPy and Matplotlib, Introduction to Pandas with Practical Examples, Data Analysis with Pandas. Word counter in Python, Audio and digital signal processing. A Brief introduction to artificial intelligence and its various fields, basics of machine learning and its types.introduction to computer vision, introduction to deep learning, image classification with MLP(Hand-on Session).

## COURSE OUTCOMES:

After the completion of this FDP, participants will be able to

- 01** Understand and apply python programming for various engineering applications.
- 02** Design practical solutions various real time problems.
- 03** Obtain knowledge about Mathematics, Data Science so that various problems in machine learning area can be addressed.

## ORGANIZING COMMITTEE

### Chief Patron

Rev. Fr James Chellamkottu  
Manager

### Patron

Dr. Benny Joseph  
Principal

### Convener

Dr. D Anto Sahaya Dhas  
Professor & HOD, ECE

### Coordinators

Dr. Reema Mathew A  
Associate Professor ECE  
9645527132

Dr. Jayesh George M  
Associate Professor ECE  
9746135446

mail id - vjececefdp@gmail.com