

COURSE HIGHLIGHTS

This FDP is envisaged to provide a platform to train faculty and research scholars from various disciplines of Engineering across Kerala, in the subject of Deep learning and PYNQ framework. The participants will get an opportunity to build a good foundation in Neural network, Machine learning and Deep learning using Matlab and Simulink. The session on PYNQ framework will provide the participants with a working knowledge about PYNQ-Z2 board, IPython, Jupyter Notebook Interface and Overlays.

ELIGIBILITY

The FDP is open to faculty members and research scholars of AICTE approved Engineering colleges who belongs to Electronics, Instrumentation, Electrical, Computer science and Allied engineering streams. Candidates from industries and R&D organizations will also be considered. Number of external participants is limited to 30. Selection will be based on first-come-first-served basis and will be intimated through email only. Participation certificates will be issued to all participants who has successfully completed the programme.

HOW TO REGISTER

The participants are requested to duly fill the application form and mail the scanned copy to the convener's mail ID : hodec@sjcetpalai.ac.in and produce the hardcopy of the same at the registration desk on the first day of the programme.

Registration Fee Details

Industry: - Rs.900/-

Faculty Members: - Rs.750/-

Research Scholars: - Rs.500/-

The registration fees should be paid at the registration desk before the commencement of the programme.

TA/ DA/ ACCOMMODATION

No TA / DA will be paid to the participants. Accommodation in the college premises shall be arranged on prior request on cost sharing basis. Working lunch and refreshments will be provided for registered participants.

CONVENER

Dr. V P Devassia

Professor and Head,

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COORDINATORS

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ST. JOSEPH'S
COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

FACULTY DEVELOPMENT PROGRAMME ON DEEPLARNING AND PYNQ FRAMEWORK

24th to 28th June 2019

Organised by:

**Department of Electronics and
Communication Engineering,
St. Joseph's College of Engineering and
Technology, Palai**

And



ABOUT THE INSTITUTE

St. Joseph's College of Engineering & Technology, Palai was established in 2002 by the Diocese of Palai and also is an ISO 9001:2015 certified institution. From its very inception, SJCT Palai, has earned reputation as a "College with a difference". SJCT runs undergraduate and post graduate programs in Civil, Mechanical, Electrical, Electronics, Computer science and Instrumentation Engineering. In addition, we offer MBA, MCA, and doctoral programs in Mechanical & Electronics Engineering. The institution is well equipped with state-of-the-art facilities

ABOUT THE DEPARTMENT

The Department of Electronics & Communication Engineering, is offering B-Tech in electronics and communication engineering, M-Tech in VLSI & Embedded systems and doctoral programs in the allied areas. All the programs are approved by APJ Abdul Kalam Technological University(KTU) and the B-Tech program in ECE is Accredited by the National Board of Accreditation(NBA).

ABOUT CoreEL TECHNOLOGIES

CoreEL Technologies (I) Pvt Ltd, CoreEL is a customer Application Specific Products & Solutions company offering Intellectual Property (IP)Hardware, Software & Engineering Services to customers, enabling them to Design Manufacture and Market world class electronic products. The portfolio of offerings includes IP cores, System Design, Architecture, Validation, Sustenance, Prototype Manufacturing, Next -Gen products, Semiconductor solutions &Distribution of EDA Tools &COTS products. CoreEL was founded in 1999and is an ISO 9001 :2008 certified head quartered at Bangalore India.

RESOURCE PERSONS

Sessions will be handled by industry experts from CoreEL Technologies, Bangalore and experts from National institutes.

COURSE CONTENT

Introduction to the PYNQ project

- PYNQ framework
- PYNQ-Z2 board
- Jupyter Notebook Interface
- Introduction to the PYNQ project Board setup
- IPython
- Introduction to overlays
- PYNQ IOPs logictools overlay
- Overlay design methodology

MATLAB and Simulink Tools

- An Introduction to CoreEL & MathWorks Understanding MathWorks Products
- Data Analysis & visualization
- Introduction to MATLAB MOBILE

Neural Network, Machine Learning and Deep Learning

- Neural Network
- Introduction to Machine Learning for Computer Vision Applications Using MATLAB
- Deep Learning
- Introduction to Deep Learning for Computer Vision Applications Using MATLAB

APPLICATION FORM

A FIVE-DAY FDP ON
DEEPLARNING AND PYNQ FRAMEWORK

1. Name :
2. Designation :
3. Educational Qualification :
4. Name of the Institute :
5. Address for Communication :
6. Email :
7. Mobile :
8. Experience; Teaching Industrial :
9. Accommodation : Yes/No required

Declaration:

The information furnished above is true to the best of my knowledge.

Date:

Place:

Signature of the Applicant

Mr./Ms./Dr. _____

is an employee/student of our institute. He /She will be permitted to attend the programme if selected.

Date:

Place:

Signature & Seal
of Head of Organization