Dept. of Computer Science & Engineering

NATIONAL BOARD OF ACCREDITATION

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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

ONE WEEK FACULTY DEVELOPMENT PROGRAMME *on*

BLOCKCHAIN TECHNOLOGY & ITS APPLICATIONS

16.01.2023 - 20.01.2023

Organized by:

Dept. of Computer Science & Engineering

Sponsored by:

APJ Abdul Kalam Technological University

ABOUT THE INSTITUTION

St. Joseph's College of Engineering and Technology, Palai was established in the year 2002, managed by the Diocesan Technical Education Trust, Palai under the Diocese of Palai. SJCET was instituted with the objective of developing a centre of professional learning with a distinct identity and character, for imparting education and training in a truly Christian environment, fostering values of faith and love to God and fellowmen. The college aims to provide the kind of education that helps to achieve academic excellence and thereby ensures a challenging and satisfying career for the students on the successful completion of the programme.

DEPARTMENT VISION & MISSION

www.sjcetpalai.ac.in

Vision:

To evolve as a school of computing with globally reputed centres of excellence and serve the changing needs of the industry and society.

Mission

- *The department is committed in bringing out career oriented graduates who are industry ready through innovative practices of teaching and learning process.*
- *To nurture professional approach, leadership qualities and moral values to the graduates by organizing various programs periodically*
- *To acquire self-sustainability and serve the society through research and consultancy*

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 2002 and since its inception, the department has progressed with a vision and a strong commitment in developing competent Engineers with uncompromising standards of excellence in training, both through class room sessions and hands on sessions. The Department is equipped with competent and dedicated faculty members with expertise in the current technologies.

The department strives for uplifting the skill of the students to bring out innovative ideas from them with professionalism and ethical values. The department offers BTech (accredited by NBA), MTech and PhD programmes. The department is a recognized research centre of APJ Abdul Kalam Technological University, Thiruvananthapuram. The department has been maintaining an active interaction with the professional bodies like Computer Society of India and IEEE CS.

ABOUT THE FDP

Objective: The Faculty Development Programme on ***"Blockchain technology and its applications"*** is to provide an overview on recent applications of using blockchain technology for research, consulting, analysis and forecasting.

COURSE CONTENTS

1. Blockchain Technology Basics:
The idea behind blockchain, the invisible technology that's changing the world

2. Cryptocurrency and Bitcoin:
Introduction - cryptographic concepts, cryptocurrencies, bitcoins, and bitcoin platform

3. Consensus Algorithms:
Consensus Algorithms and related attacks

4. Blockchain IoT (BIoT) and its applications:
How blockchain is making IoT smarter, the mechanisms underlying successful blockchain IoT applications

5. Solidity Programming Languages:
Writing smart contracts in solidity language

6. Smart Contracts:
Smart Contract Deployment and related Issues

7. Decentralized applications (dApps):
Design and development of end-to-end decentralized applications (dApps)

8. Hyperledger Fabric:
Hyperledger Fabric and Apps: Security Deep Dive

9. Blockchain Implementations:
Deployment of ERC20 token (Hands on Session)

10. Blockchain Applications:
Real world applications

TARGET GROUP

This FDP is interdisciplinary and open to all faculty members & Research Scholars from Engineering colleges affiliated to APJ Abdul Kalam Technological University, Kerala.

GENERAL INSTRUCTIONS

- The number of participants is limited and hence the participants will be selected on a first come first serve basis.
- Duly filled registration forms signed by the respective Head of the Institution is mandatory for participation. The form should be submitted through mail/hard copy to the mailing address.
- As per KTU norms, it is compulsory for the participants to attend all the sessions of the programme. Otherwise, the participation certificate will not be awarded.
- The selected participants will be intimated through e-mail. They shall confirm their registration by paying a registration fee of ₹ 200.
- Accommodation facility may be provided on request subject to availability and on payment basis.

REGISTRATION LINK:
https://tinyurl.com/fdpcsesjcet

PERMISSION LETTER:
https://tinyurl.com/fdppermission

ORGANISING COMMITTEE

Chief Patron	:	**Msgr. Dr. Joseph Maleparambil** *Chairman, SJCET Palai*
Patron	:	**Rev. Fr. Mathew Koramkuzha** *Manager, SJCET Palai*
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Members	:	CSE Staff Members, SJCET Palai

CONTACT DETAILS :

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