ABOUT THE INSTITUTION

Sree Chitra Thirunal College of Engineering (SCTCE) was established under the Department of Transport, Government of Kerala in the year 1995. The College is managed by the Board of Governors with the Honourable Minister for Transport, Govt. of Kerala as the Chairman. SCTCE is one of the few colleges in the state accredited by NBA. The institution is one among the top seven Engineering colleges in the state selected by Central Government for grants under World Bank - TEQIP (first phase).

The Primary objective is to promote education and research in the field of technology and to groom young men and women into competent technocrats, in whose hands the future of our nation is assured. Extensive links with the research Institutes and industries have enabled SCTCE to maintain the vocational and practical base to its courses. The campus is situated on the NH-47, 5 Kms from Thiruvananthapuram Central Railway Station and 10 Kms from the Airport.

ABOUT THE DEPARTMENT

Department of Computer Science and Engineering has been promoting value based quality education in the emerging areas of advanced professional studies in Computer science and information technology. The department has close interaction with various leading industries. The department focuses on the development of students by rigorous academic study, excitement of research and imparting industry standard skills. The Department offers B.Tech. programmes in Computer Science and Engineering (CSE) and CSE with Artificial Intelligence and Machine Learning specialization as well as M.Tech. CSE and PhD programmes.

COURSE OBJECTIVE

The main objective is to identify the research areas and challenges in blockchain technology and big data analysis.

COURSE CONTENTS

The enormous growth of cryptocurrencies leverages the rapid development of blockchain technology. Blockchains are immutable and distributed digital ledger systems stores the cryptographically signed transactions in the form of blocks. The blockchain technology has successfully enabled e-commerce systems such as Ethereum, Bitcoin, Litecoin, and Ripple. Blockchain has been broadly used for a variety of applications. Three different types of blockchains are available such as public-permissionless blockchain, public-permissioned blockchain, and private blockchain. Blockchain technology has widely used in different emerging fields such as the Internet of Things, education, finance and auditing.

Social network analysis focuses on the analysis of pattern of relationships among people, organizations, states and different social entities. The rapid growth of consumer data combined with the impact of social media has created a need to understand the meaningful data by big data analysis. The research works are being carried out in the area of finding the communities from multi-relational social network data for identifying criminals and to detect abnormal behaviours. Hands on training sessions will be arranged for familiarizing Blockchain and Big data Analysis.

RESOURCE PERSONS

Experts from Industries and Professors from Engineering Colleges.

PARTICIPATION

The course is open to faculty members from various engineering colleges under KTU. Maximum number of external participants is limited to 25.

REGISTRATION FEE

There is no registration fee for attending the course.

IMPORTANT DATES

Last date of submission of registration form: 12/12/2022
Intimation of selection (By E-mail) : 16/12/2022

Filled in registration form should be send by post to the address given below. Advance copy for registration may be send through e-mail.

The Coordinator
Faculty development programme on Research Challenges in Blockchain and Big data Analysis
Department of Computer Science and Engineering
Sree Chitra Thirunal College of Engineering
Pappanamcode, Thiruvananthapuram - 695018

COORDINATORS

Dr. JAYASUDHA J. S.
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&
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REGISTRATION FORM
FACULTY DEVELOPMENT PROGRAMME
on
Research Challenges in Blockchain and Big Data Analysis
(5th to 10th January 2023)

1. Name of Applicant:...
2. Sex: Male/Female ....
3. Designation:...
4. Highest Qualification:...
5. Department: ....
6. Teaching Experience (Years) :..................................
7. Name/Address of affiliated College/Organization:
   ....
8. Phone/Mobile No.:...
9. E-Mail:...
10. Food Preference: Veg/Non-Veg: ....

DECLARATION

I .... declare that the information furnished herewith is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the course. If I am selected, I shall attend the course for the entire duration.

Signature of the applicant: ....

SPONSORSHIP

This is to certify that Dr./Mr./Ms.. is a faculty member of our institution and is hereby sponsored for the Short term course on Research challenges in Blockchain and Big Data Analysis. The applicant would be permitted to attend the course, if selected.

Signature of Head of Institution　　　　　　Office Seal

PATRON :　　Hon'ble Minister for Transport
　　　　　　　　Govt. of Kerala
　　　　　　　　　　&
　　　　　　　　Principal, SCTCE

For any queries :

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FACULTY DEVELOPMENT PROGRAMME

ON

Research Challenges in Blockchain and Big Data Analysis

5th to 10th January 2023

Sponsored by APJ Abdul Kalam Technological University

Organized by

**DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**

SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING
(Under Govt. of Kerala)
Affiliated to APJ Abdul Kalam Technological University
Pappanamcode, Thiruvananthapuram - 695018
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Sree Chitra Thirunal College of Engineering
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Research Challenges in Blockchain and Big data Analysis
(20th July to 26th July 2022)
Tentative Programme Schedule

Date	9.30 to 9.45	9.45 to 11.10		11.20-11.45	11.45 to 1:00		1.45-3.00		3.10-5.15	
20/7/22 Wednesday	Registration	Introductory Talk on "Blockchain" (Dr. Madhu Kumar, NIT)	Tea Break	Scope of Research in Block chain (Dr. Madhu Kumar, NIT)		Lunch Break	Techniques used for securing data in Blockchain (TCS)	Tea Break	Research Opportunities in Blockchain (Dr. Priya Chandran, NIT)	
21/7/22 Thursday	Necessity of Blockchain Security (Prof. Anu Mary Chacko, NIT)			Security challenges in Blockchain (Prof. Anu Mary Chacko, NIT)			Big Data Processing (Dr. Mala C, NIT)		Hands on session - Bigdata (Dr. Mala C , NIT)	
22/7/22 Friday	Tools used for Big Data Analysis (Dr. V. Kavitha)			Applications of Blockchain (Dr. V. Kavitha)			Big Data Analysis (Dr. Sobhana N.V.)		Tools for the implementation of blockchain (Dr. Sheebarani)	
25/7/22 Monday	Techniques and tools used for Secure Data Communication (Dr. Vinod Chandra)			Hands on session on Tools and techniques used for Security in Blockchain (Dr. Asharaf)			Research initiatives in Bigdata Analysis (Dr. Sabu M. Thambi)		Demonstration of research challenges in blockchain (Dr. V. Kavitha)	
26/7/22 Tuesday	Hands on session on Tools used for Blockchain (Dr. Asharaf)			Hands on session: Hyperledger (Blockchain Academy)			Hands on session: Multichain (Blcokchain Academy)		Test	Valedictory ceremony