Registration Form

A Two Week FDP on

"BLOCK CHAIN TECHNOLOGIES"

Name :
Qualification :
Designation :
Institution :
Address :

Mobile :
E-mail :
Accommodation required : Yes/No
Registration Fee : NIL
Place:
Date:

Signature of the applicant

Sponsorship Certificate

Mr. /Ms. _____ is an employee of our organization and is hereby sponsored to the FDP. He/she is permitted to the FDP if selected.

Signature of the Sponsoring Authority

HOW TO APPLY

Interested participants may confirm their participation by an e-mail with the duly filled and signed registration form in the format given above to the mail id mentioned in the address of the correspondence on or before 15th June, 2019. As the intake is limited and the selection is based on the 'first come first serve' basis, we urge you to apply well in advance. Participants those who need accommodation, they have to pay **Rs. 600/-** per day.

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Chairman, S R Educational Academy, Warangal

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सत्यमेव जयते

Department of Science & Technology
Govt. of India

DST Sponsored Two Week Faculty Development Program

on

BLOCKCHAIN TECHNOLOGIES

17th June, 2019 to 28th June, 2019

ORGANIZING CHAIRMAN

Dr. Seena Naik Korra
Associate Professor

CONVENER

Mr. Srinivas Aluvala
Head, CSE

Organized By

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SR ENGINEERING COLLEGE
Approved by AICTE, New Delhi | Affiliated to JNTUH | Accredited by NAAC 'A' Grade
Ananthasagar (V), Hasanparthy (M), WARANGAL - 506 371
(An Autonomous Institution)

ABOUT THE INSTITUTION

SR Engineering College, Warangal founded in 2002 by S R Educational Society. It is located on Warangal-Karimnagar highway at about 15km away from Warangal City. The college is affiliated to JNTUH, Hyderabad. It is running 5 under-graduate (B. Tech) and 5 post-graduate (M. Tech) engineering programs in addition to Master of Business Administration (MBA). Five undergraduate engineering programs are accredited by the National Board of Accreditation (NBA), New Delhi within a short span of six years of its establishment. The college was recently sanctioned with two new integrated programs a-5year dual degree program in Management (BBA + MAM) and a 5½ year dual degree program in engineering (B. Tech + MTM). The college is granted Autonomous Status by University Grants Commission (UGC) in 2014, Accredited by NAAC with 'A' grade in 2015.

Through active industry cooperation, SREC has established centers like IUCEE and NEN Centre for AI & DL, Centre for IoT, Centre for Renewable Energy, Centre for Cognitive Creation, Centre for Community Service & Centre for Entrepreneurship Development for nurturing specific skill sets for employability. To shape and transform the graduates to meet challenging and complex engineering task globally, the college has built and fostered relationship with reputed universities like University of Massachusetts, Saint Louis University, University of Missouri and Wright State University. To align with ABET system of outcome based curriculum, many reforms have been implemented in the course structure with due emphasis on basic sciences and humanities, interdisciplinary and core engineering including projects and seminars in line with AICTE guidelines.

The fact of the institution is highly motivated to advance their knowledge and qualifications through sponsored research. The institute is undertaking several research projects in diverse fields of research sponsored by various funding agencies of Government of India. Regular seminars, webinars, workshops, conferences and faculty development programmes are conducted to encourage participation of students and faculty from neighboring institutes.

ABOUT THE DEPARTMENT

The department of Computer Science and Engineering was established in 2002. The department is re-accredited under Tie-I by NBA in 2019. Teaching faculty with proficiency in various subjects motivates students to participate in research activities and skill development programmes. Experienced non-teaching staff is an added strength to the department.

The department has well equipped and state of the art laboratories for both UG & PG programs. CSE department regularly organizes workshops, faculty development programs and conferences. Department has established centers like CISCO Networking Academy, Microsoft Innovation Centre, IBM Centre of Excellence.

ABOUT THE FDP

Blockchain is a leading software platform for digital assets. Blockchain is a growing list of records, called blocks, which are linked using cryptography. Each block contains a cryptographic hash of the previous block, a timestamp, and transaction data.

A Blockchain is a decentralized, distributed and public digital ledger that is used to record transactions across many computers so that any involved record cannot be altered retroactively, without the alteration of all subsequent blocks. This allows the participants to verify and audit transactions independently and relatively inexpensive. A Blockchain database is managed autonomously using a peer-to-peer network and a distributed time stamping server.

They are authenticated by mass collaboration powered by collective self-interests. Such a design facilitates robust workflow where participants' uncertainty regarding data security is marginal. The use of a Blockchain removes the characteristic of infinite reproducibility from a digital asset. It confirms that each unit of value was transferred only once, solving the long-standing problem of double spending. A Blockchain has been described as a value-exchange protocol. A Blockchain can maintain title rights because, when properly set up to detail the exchange agreement, it provides a record that compels offer and acceptance.

This technology is implemented in various real-time applications. Crypto currencies, in particular the first and well-known Bitcoin and others such as Ethereum, and canonical examples of Blockchain paradigms.

OBJECTIVE OF THE FDP

The Blockchain is nothing but a digital record of all the transactions of the economy without missing of data, misusage, manipulation and forgery and mainly incorruptible. It is a Distributed Database, with the help of Blockchain technology and we can host the transactional data by millions of computers at a time and we can retrieve the data at any time, this data is not available for the hacker to corrupt.

OUTCOME OF THE FDP

- Conceptual and Practical Knowledge to get started on Blockchain
- Provides the starting point for people interested to explore the possibilities, understand the Blockchain
- Features, Challenges and Use-cases

List of Topics, which will be dealt during the FDP:

- Introduction to the Cyber Security
- Ethical Issues and Cyber Security Technologies
- Protection of ICS Systems
- Overview on transactions, Hashes and Blocks
- Mining and incentivizing Blockchain
- Security and Safeguards
- Blockchain Architecture
- Blockchain Smart Contracts
- Blockchain Client
- Blockchain as a Service
- Blockchain Developer and Standards
- Blockchain Legal Implications
- Blockchain validation
- Ethereum
- Blockchain ecosystem
- Solidity
- Dapp
- Truffle , Metamask ,Testrpc
- Use-cases

RESOURCE PERSONS:

- **MR. BL RADHAKRISHNAN,**
  Assistant Professor, Karunya Institute of Technology and Sciences, Coimbatore
- **MR. JAI PRAVEEN,**
  Blockchain Ethereum and Smart Contract Consultant / Trainer, Chennai