

## ABOUT STTP

The Faculty Development Program (FDP) cum Short Term Training Programme (STTP) will help to disseminate knowledge in the domain of Science and Technology. The objective of the FDP is to introduce the fundamentals of Blockchain technology and implementations of Blockchain technology with their real-time applications based on Intelligent Cyber-Physical Systems. FDP/ STTP course will cover the complete understanding of ICPS enhanced Blockchain concepts with theory & hands-on sessions.

- Blockchain-based cryptocurrency Implementation.
- Cyber-attacks and Blockchain-based smart contracts.
- Intelligent Cyber Physical System through learning how to deploy a business network using Hyper ledger Compose.

Overall, this FDP / STTP is serving to be a great platform for faculty and researchers to upgrade their knowledge of Blockchain technology and cryptocurrencies. Experts from academia and industry have been invited to deliver lectures about the current and emerging trends in Blockchain technology. The FDP/ STTP will focus on theoretical and hands-on experience in Cyber-Physical Systems, Intelligent decision-making, IoT, and Blockchain Technology to interface the things for different applications using Raspberry Pi/Arduino/Intel Galileo toolkits with devices such as LEDs, sensors, actuators, etc.

## STTP OBJECTIVES

- Introduction to the concepts of Blockchain and its platform - Bitcoin, Ethereum, Hyperledger and Multichain, Smart Contracts.
- Overview of the structure and mechanism of Blockchain.
- Learn about how Smart Contracts are developed using Solidity.
- Learn about how to deploy a business network using Hyperledger Compose.
- To gain practical experience in doing independent study and research.

## ABOUT MVGR

Maharaj Vijayaram Gajapathi Raj College of engineering (Autonomous) was established in the year 1997 by Maharaj Alak Narayan Society for Arts and Sciences (MANSAS). MANSAS was established in 1958 by the erstwhile Raja Saheb of Vizianagaram, (Late) Dr. PVG Raju. The college has state of the art Labs which host equipment costing Rs. 15 Cr. The college is spread on a lush green 60 Acre campus and has more than 7 lakh sft. build up area. The college library has over 50,000 volumes adorning an enviable collection of books and e-learning material.

### B.TECH. COURSES

CHEM  
CIVIL  
ECE  
EEE  
MECH

CSE  
IT  
CS&IT  
CSE-AI&ML  
CSE-DS  
CSE-IOT, BCT & CS

### PG COURSES

M.TECH.  
(STRUCTURAL ENGG.)

MBA

The college is reaccredited by NAAC , all UG Programs (CHEMICAL,CIV, CSE, ECE, EEE, IT & MECHANICAL) were re-accredited by NBA and recognized as a Business Incubator Centre by the Ministry of Micro, Small and Medium Enterprises (MSME), Govt. of India. The college is undertaking consultancy/Research projects from DST, AICTE,UGC and Govt. of AP. of around 3.5 crores.

## ABOUT DATA ENGG.

Data Engineering is a center par excellence for technical education where aspiring students can be transformed into skilled and well-rounded software professionals with strong understanding of fundamentals, a flair for responsible innovation in engineering practical and robust solutions applying the fundamentals, and confidence to meet the challenges in their chosen professional spheres.

**PROGRAMS OFFERED** B.TECH. (AI&ML, IOT,BCT & CS, DS)

**LABORATORIES** RAMAN LAB & BOSE LAB

### COLLABORATIONS

CISCO NETWORKING,  
PALO ALTO NETWORKS CYBER  
SECURITY, AWS(AMAZON)  
REDHAT LINUX, BLUE PRISM RPA  
ACADEMIES CERTIFICATION AND  
SWECHA AP



**08TH JULY 2024  
TO 13TH JULY 2024  
BOSE LAB, DE BLOCK  
MVGRCE(A)**

**ORGANIZED BY  
DEPARTMENT OF  
DATA ENGINEERING**



CHINTALAVALASA(VILLAGE), DENKADA(MANDAL),  
VIZIANAGARAM, ANDHRA PRADESH,  
INDIA PIN - 535005,  
[WWW.MVGRCE.EDU.IN](http://WWW.MVGRCE.EDU.IN)

**ICPS: BLOCKCHAIN  
TECHNOLOGY RECENT  
TRENDS & APPLICATIONS**

# MAJOR COURSE CONTENT

- What are Cyber-Physical Systems
- What is Artificial Intelligence and its Applications
- Intelligent Decision-Making System through Security
- What is Blockchain? What is Cryptocurrency, and how is it different than Blockchain.
- Cryptocurrency, Encryption, and Block Hashes
- How block hashes are used in Blockchain
- Value of Blockchain, Data Tokens
- Distributed Ledger Technology, Tools-Mist, Web3, Dapps5, Introduction to Hyper Ledger
- Hyper Ledger Architecture Components and How it works, REST API and HFC
- Fundamental concepts of blockchain
- Blockchain Technology Mechanisms & algorithms
- Hashing and Cryptographic fundamentals.
- Networks, Blockchain Users, and Adoption. Alternative Blockchains / Altchains, Ethereum Wallets, Ethereum Consensus
- Mechanisms, Ethereum Virtual Machine (EVM), Ethereum's Ecosystem and Dapps.
- Interfacing with Ethereum Networks, Smart Contracts, Contract Structure, Redeploying Contracts,
- Behind the Scenes of Deployment, Cryptocurrencies.
- Blockchain applications case study using Hyperledger.

## SPEAKERS & TOPICS

**M Sai Prasanth, Block Chain Developer, YAYIN AI Private Limited, Hyderabad**

Foundations of Cybersecurity and Blockchain and its applications

**G Renu, COO, Kan Prokagno Innovation Private Limited, Vizag**

Cybersecurity Management and Digital Safety.

**Praveen Kumar Singh, Senior Data Scientist, Exl Analytics, Noida**

Security Issues and challenges in the Banking and financial sector

**Dr. Dorsala Mallikarjun Reddy, IIIT Sricity, Andhra Pradesh**

Introduction to Blockchain: Bitcoin and Ethereum

Hands-On Sessions on Smart Contract Development

**Dr.V. Nagesh**

Challenges in Cybersecurity and digital forensics

**Dr. P.Satheesh**

Role of crypto currency in the growing economy



## IMPORTANT DATES

**Brouchere Release** 19th June 2024

**Registrations** 19th to 30th June 2024

## REGISTRATION DETAILS

Faculty Members of UGC/AICTE-recognized Universities and affiliated Colleges all over India, Research Scholars (Ph.D.), Students, and Industry personnel. However, higher priority will be given an opportunity to the faculty members who are curious about this field

**Registration Fees for**

**Participants from  
Outside colleges**

**Rs.1000\* Only**

LIMITED REGISTRATIONS, PRIORITY ON FIRST COME FIRST SERVE BASIS ONLY

\*ACCOMMODATION, FOOD, AND CERTIFICATES WILL BE PROVIDED.



SCAN HERE TO

**GET REGISTERED**

**CONTACT**

**Dr. P. Srinivasa Rao**

**Associate Professor, DE**

**psr.cse@mvgcrce.edu.in**

**+91-9866370352/ +91-8639562606**

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