DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Y19-M.TECH-CSDF

Program Outcomes

Course Code	Course Title	CO NO	Description of the Course Outcome
18CS5117	Introduction to Cyber Security & ICS	CO1	Understand Privacy, Cyber Laws and Ethics
		CO2	Apply Cyber Security Threats
		CO3	Understand Malware Fundamentals
		CO4	Apply BCP, DR planning & Audit
18CS5118	Digital Forensics	CO1	Illustrate and examine conventional cryptographic procedures
		CO2	Illustrate and examine modern cryptographic and hash algorithms
		CO3	Demonstrate and study MAC and digital signature algorithms
		CO4	Demonstrate and study key management distributions
18CS5119	Advance Network Security & Investigations	CO1	Understand Network Connectivity
		CO2	Apply Network Protocols & Email Forensics
		CO3	Analyse Network Attacks
		CO4	Apply Network Penetration Testing
		CO5	Analyse Network Investigation
18CS5120	Software Security	CO1	Understand Web Security
		CO2	Understand Web Hacking
		CO3	Understand Protocol based Attacks
		CO4	Understand Web Investigation
18CS51E4	Cloud Computing	CO1	Understand cloud computing and NIST reference models
		CO2	Understand the Software as a Service, Platform as a Service and Infrastructure as a Service.
		CO3	Apply and understand the need for virtualization in the cloud and the pros and cons of virtualization
		CO4	Apply cloud security mechanisms to enhance the security on cloud premises
18CS51J1	Introduction to Bigdata Analytics	CO1	Understand Big Data and Database Evolution in Big Data
		CO2	Understand Comparison between SQL and NoSQL
		CO3	Understand Basics for Data Analytics
		CO4	Understand Using R
		CO1	Basic level seminar Topics

Code	Course	CO	Description
18 IE 5149	Seminar	CO2	Technical seminar after refers at least 3 International Journals
		CO 3	Group discussions on Important topics
		CO4	Seminar after referring specialization on related reputed journals
		CO 5	Seminar with PPT or any one presentation tool.
18CS5221	Cryptography for Cyber Defense	CO1	Understand Encryption & Decryption
		CO2	Apply cryptographic algorithms
		CO3	Apply Security engineering principles
		CO4	Apply RFID systems in public transportation
18CS5222	Malware Analysis &Reverse Engineering	CO1	Understand Introduction to Malware
		CO2	Understand Introduction to RE
		CO3	Analyse Malware Analysis
		CO4	Apply Malware Handling
18CS5223	Cyber Incident Response & Resilience	CO1	Understand Incident Response
		CO2	Understand Incident Response and Handling Process
		CO3	Understand Incident Response and Handling Process
		CO4	Understand Incident Response Team Members Roles and Responsibilities
18CS5224	Cyber Law, Governance & Compliance	CO1	Understand Computer ethics, Privacy & Legislation
		CO2	Understand Intellectual property issues in cyberspace
		CO3	Understand Cyber Forensics legal aspects
		CO4	Understand Compliances & Standards
18CS52L4	Programming for Block Chain	CO1	To apply the basic concepts of secret sharing and blockchain
		CO2	To understand the components and types of Blockchain, and recognize the significance of consensus algorithms
		CO3	To apply the basic and advanced coding skilling using smart contract programming for the blockchain business logic
		CO4	To analyse the need for business logic using Hyperledger and able to apply chain code for Hyperledger
		CO5	To evaluate and implement small business logic for Ethereum environment and a chain code for Hyperledger
		CO1	Understand the Cloud Computing Techniques and Virtualization on cloud platforms
		CO2	Analyse and Apply AWS Services

Course Code	Course Name	CO	Course Outcome
18CS52M3	Cloud System Infrastructure	CO3	Understand Programming, management console and storage on AWS, AWS Security and Compliances and analyse AWS computing and Marketplace
		CO4	Analyse AWS networking and databases and AWS billing and dealing disaster
		CO5	Develop Cloud services using Amazon Web Services
		CO6	Implementing cloud on Amazon Web Services
18IE5250	Term Paper	CO5	The term paper has to be taken up by the MTech Second Semester students. It is based on independent research in one of the areas opted by the student.
18IE6050	Dissertation	CO5	The Project has to be taken up by the MTech Second Semester students. It is based on independent research in one of the areas opted by the student. In a project research paper, a student should demonstrate his/her ability in finding out the relevant sources, selection, an illustration of logic, and in organizing the information on the topic, gathering the data, processing, analyzing, and summarizing.