



SRKR ENGINEERING COLLEGE::BHIMAVARAM
Department of Computer Science and Engineering

R16

COURSE OUTCOMES

Program Name: M.Tech (Computer Science and Technology)

Course Name: (MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE)

COURSE	COURSE OUTCOMES	
MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE M16 CST 1101	CST 1101.1	Critical, logical-mathematical reasoning
	CST 1101.2	Ability to apply mathematical knowledge and logic in solving problems.
	CST 1101.3	Understanding of formal grammar analysis and compilation.

Course Name: (DATA STRUCTURES & ALGORITHMS)

COURSE	COURSE OUTCOMES	
DATA STRUCTURES M16 CST 1102	CST 1102.1	Be able to write programs and class libraries given a specification;
	CST 1102.2	Implement various data structures.
	CST 1102.3	Implement and analyze various sorting algorithms.
	CST 1102.4	Understand abstract data types and how they are implemented in „C“ programming language.

Course Name: (ADVANCED DATA BASE MANAGEMENT SYSTEMS)

COURSE	COURSE OUTCOMES	
ADVANCED DATA BASE MANAGEMENT SYSTEMS M16 CST 1103	CST 1103.1	Understanding of DBMS.
	CS T 1103.2	Design database using ER model and refine the design by enforcing functional dependencies, integrity constraints and normalization
	CS T 1103.3	Write queries using SQL
	CST 1103.4	Implement procedures and triggers

Course Name: (ADVANCED OPERATING SYSTEMS)

COURSE	COURSE OUTCOMES	
ADVANCED OPERATING SYSTEMS M16 CST 1104	CST1104.1	Students understands the concept of Distributed systems, Process Synchronization, File structure and shared memory in Distributes operating systems

Course Name: (COMPUTER ORGANIZATION & ARCHITECTURE)

COURSE	COURSE OUTCOMES	
COMPUTER ORGANIZATION & ARCHITECTURE M16 CST 1105	CST 1105.1	Basic structure of a digital computer
	CST 1105.2	The organization of the Control unit, Arithmetic and Logical unit, Memory unit and the I/O unit.

Course Name: (E-COMMERCE)

COURSE	COURSE OUTCOMES	
E-COMMERCE M16 CST 1106	CST1106.1	Will be able to analyze the concept of electronic market and market place.
	CST1106.2	Able to understand the business standards and security issues
	CST1106.3	Able understand e-commerce business models and applications, issues of e-commerce business models.

Course Name: (EMBEDDED SYSTEMS)

COURSE	COURSE OUTCOMES	
EMBEDDED SYSTEMS M16 CST 1107	CST 1107.1	An ability to design systems, components, or processes for broadly-defined engineering technology problems.
	CST1107.2	Implement combinatorial logic and sequential systems in terms of basic digital building blocks using simulation software. You will be able to perform some optimisations.
	CST1107.3	Design, test and critically evaluate embedded solutions to real world situations using digital components (sequential and combinatorial).
	CST1107.4	Recognize the key features of embedded systems in terms of computer hardware and be able to discuss their functions. You will be aware of the key factors affecting computing hardware evolution.
	CST1107.5	Develop software systems for embedded devices using assembler code

Course Name: (IMAGE PROCESSING)

COURSE	COURSE OUTCOMES	
IMAGE PROCESSING M19CST1108	CST1108.1	Demonstrated understanding of the basic concepts of two-dimensional signal acquisition, sampling, and quantization.
	CST1108.2	Demonstrated understanding of spatial filtering techniques, including linear and nonlinear methods.
	CST1108.3	Demonstrated understanding of 2D Fourier transform concepts, including the 2D DFT and FFT, and their use in frequency domain filtering.
	CST1108.4	Demonstrated understanding of the fundamental image enhancement algorithms such as histogram modification, contrast manipulation, and edge detection.

Course Name: (COMPUTER NETWORKS)

COURSE	COURSE OUTCOMES	
COMPUTER NETWORKS M16 CST 1109	CST1109.1	Independently understand basic computer network technology.
	CST1109.2	Identify the different types of network topologies and protocols.
	CST1109.3	Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
	CST1109.4	Identify the different types of network devices and their functions within a network
	CST1109.5	Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation.
	CST1109.6	Have an understanding of protocols in computer networks
	CST1109.7	Understand different protocols of different layers of computer networks.

Course Name: (CLOUD COMPUTING)

COURSE	COURSE OUTCOMES	
CLOUD COMPUTING M10 CST 1110	CST1110.1	Understanding the systems, protocols and mechanisms to support cloud computing
	CST1110.2	Develop applications for cloud computing
	CST1110.3	Understanding the hardware necessary for cloud computing
	CST1110.4	Design and implement a novel cloud computing application

Course Name: (GRID COMPUTING)

COURSE	COURSE OUTCOMES	
GRID COMPUTING M16 CST 1111	CST1111.1	To understand the genesis of grid computing
	CST1111.2	To know the application of grid computing
	CST1111.3	To learn the technology and tool kits for facilitating grid computing

Course Name: (COMPUTER GRAPHICS & VISUAL COMPUTING)

COURSE	COURSE OUTCOMES	
COMPUTER GRAPHICS & VISUAL COMPUTING M16 CST 1112	CST 1112.1	Learn basic and fundamental computer graphics techniques
	CST1112.2	Represent and implement images and objects using 3D representation.
	CST1112.3	Design develop surface detection using various detection methods
	CST1112.4	Choose various illumination models for provides effective standards of objects
	CST1112.5	Design of develop effective computer animations
	CST1112.6	Design of various projections

Course Name: (DATA STRUCTURES & PROGRAMMING LAB)

COURSE	COURSE OUTCOMES	
DATA STRUCTURES & PROGRAMMING LAB M16 CST 1113	CST 1113.1	Implement Linear data structures
	CST 1113.2	Non-linear data structures
	CST 1113.3	Sorting techniques Design of various projections

Course Name: (DATABASE MANAGEMENT SYSTEMS LAB)

COURSE	COURSE OUTCOMES	
DATABASE MANAGEMENT SYSTEMS LAB M16 CST 1114	CST 1114.1	Able to design DBMS projects including Normalization
	CST 1114.2	Able to implement a DBMS project with appropriate triggers, procedures and front end.

SEMESTER: 2

COURSE YEAR: 2016-2017

Course Name: (ARTIFICIAL INTELLIGENCE)

COURSE	COURSE OUTCOMES	
ARTIFICIAL INTELLIGENCE M16 CST1201	CST1201.1	Able to learn artificial intelligence techniques
	CST1201.2	Understand the concept of machine learning.

Course Name: (OBJECT ORIENTED SOFTWARE ENGINEERING)

COURSE	COURSE OUTCOMES	
OBJECT ORIENTED SOFTWARE ENGINEERING M16 CST 1202	CST1202.1	Relate object oriented concepts representation through artifacts of UML.
	CST1202.2	Build and relate classes, their relationships and collaborations (CRC) (for any case study).
	CST1202.3	Generate the list and order of activities carried out for each behavior exhibited by any system
	CST1202.4	Design advanced behavioral concepts to deploy the model
	CST1202.5	Apply the project development activities of software engineering

Course Name: (COMPILER DESIGN)

COURSE	COURSE OUTCOMES	
COMPILER DESIGN M16 CST 1203	CST1203.1	To acquire the knowledge of modern compiler & its features.
	CST1203.2	To learn the new code optimization techniques to improve the performance of a program in terms of speed & space.
	CST 1203.3	To use the knowledge of patterns, tokens & regular expressions

Course Name: (DATA WAREHOUSING & DATA MINING)

COURSE	COURSE OUTCOMES	
DATA WAREHOUSING & DATA MINING M16 CST 1205	CST1205.1	Recall fundamental concepts of parallelism
	CST1205.2	Design and analyze the parallel algorithms for real world problems and implement them on available parallel computer systems.
	CST1205.3	Reconstruction of emerging parallel algorithms with MPI.
	CST1205.4	Compute contemporary parallel algorithms.

Course Name: (SEMANTIC WEB)

COURSE	COURSE OUTCOMES	
SEMANTIC WEB M16 CST 1206	CST1206.1	Able to understand the rationale behind Semantic web.
	CST1206.2	Understand the concept structure of the semantic web technology and how this technology revolutionizes the World Wide Web and its uses.
	CST1206.3	Able to model and query domain knowledge as ontology's defined using standards such as RDF and OWL.

Course Name: (BIG DATA ANALYTICS)

COURSE	COURSE OUTCOMES	
BIG DATA ANALYTICS M16 CST 1207	CST1207.1	To be able to apply the knowledge of computing tools and techniques in the field of Big Data for solving real world problems encountered in the Software Industries.
	CST1207.2	To be able to analyze the various technologies & tools associated with Big Data.
	CST1207.3	To be able to identify the challenges in Big Data with respect to IT Industry and pursue quality research in this field with social relevance.

Course Name: (DATABASE SECURITY)

COURSE	COURSE OUTCOMES	
DATABASE SECURITY M16 CST 1208	CST1208.1	Able to understand the database security framework
	CST1208.2	Will be able to learn database access control
	CST1208.3	Will be able to understand database security techniques.
	CST1208.4	Will be able to implement security for databases.

Course Name: (MOBILE COMPUTING)

COURSE	COURSE OUTCOMES	
MOBILE COMPUTING M16 CST 1209	CST1209.1	A working understanding of the characteristics and limitations of mobile hardware devices including their user-interface modalities
	CST1209.2	The ability to develop applications that are mobile-device specific and demonstrate current practice in mobile computing contexts.
	CST1209.3	A comprehension and appreciation of the design and development of context-aware solutions for mobile devices.

Course Name: (SOFT COMPUTING)

COURSE	COURSE OUTCOMES	
SOFT COMPUTING M16 CST 1210	CST1210.1	Able to understand genetic algorithm fundamentals and its operators and procedure
	CST1210.2	Understand artificial neural network model and its activation functions
	CST1210.3	Understand different operations of GA

Course Name: (CLUSTER COMPUTING)

OURSE	COURSE OUTCOMES	
CLUSTER COMPUTING M16 CST 1211	CST1211.1	Have knowledge of virtual technologies and Service-oriented architecture
	CST1211.2	Have knowledge of Architecture for Cluster Computing, process scheduling and load balancing.

Course Name: (PERVASIVE COMPUTING)

OURSE	COURSE OUTCOMES	
PERVASIVE COMPUTING M16 CST 1212	CST1212.1	Identify distinguishing features of the different mobile device categories,
	CST1212.2	Understand the role of the Wireless Application Protocol in enabling mobile devices to access the Internet
	CST1212.3	Able to understand elementary to medium-level (complexity-wise) user interface applications for all three platforms.

Course Name: (DATA WAREHOUSING & MINING LAB)

OURSE	COURSE OUTCOMES	
DATA WAREHOUSING & MINING LAB M16 CST 1213	CST1213.1	Demonstrated understanding of the basic concepts of two-dimensional signal acquisition, sampling, and quantization.
	CST1213.2	Demonstrated understanding of spatial filtering techniques, including linear and nonlinear methods.
	CST1213.3	Demonstrated understanding of 2D Fourier transform concepts, including the 2D DFT and FFT, and their use in frequency domain filtering.
	CST1213.4	Demonstrated understanding of the fundamental image enhancement algorithms such as histogram modification, contrast manipulation, and edge detection.

Course Name: (OBJECT ORIENTED SOFTWARE ENGINEERING LAB)

OURSE	COURSE OUTCOMES	
OBJECT ORIENTED SOFTWARE ENGINEERING LAB M16 CST 1214	CST1214.1	Students can design and implement complex software solutions. and test and document software.
	CST1214.2	They are capable of working as part of a software team and develop significant projects