Course Outcomes

ME Semester - I		
Course- 2017	**COs**	**Course Outcomes**
510101 - Research Methodology	510101.1	Carry out Literature Survey
	510101.2	Identify appropriate topics for research work in computer engineering
	510101.3	Select and define appropriate research problem and parameters
	510101.4	Design the use of major experimental methods for research
	510101.5	Use appropriate tools, techniques, and processes of doing research in Computer science
	510101.6	Demonstrate own contribution to the body of knowledge
	510101.7	Become aware of the ethics in research, academic integrity and plagiarism
	510101.8	Write a research report and thesis
Course- 2017	**COs**	**Course Outcomes**
510102 - Bio-Inspired Optimization Algorithms	510102 .1	Describe the natural phenomena that motivate the algorithms
	510102.2	Apply nature-inspired algorithms to optimization
	510102.3	Select the appropriate strategy or optimal solution based on bio-inspired algorithms which are effective, efficient, optimized and feasible.
Course- 2017	**COs**	**Course Outcomes**
510103 – Software Development and Version Control	510103.1	Select and apply the design patterns to software development.
	510103.2	Design software for real engineering Problems.
	510103.3	Demonstrate team work for development of software in collaborative environment.
	510103.4	Use of open source version control tool.
Course- 2017	**COs**	**Course Outcomes**
510104 - Embedded and Real Time Operating Systems	510104.1	Recognize and classify embedded and real-time systems
	510104.2	Explain communication bus protocols used for embedded and real-time systems
	510104.3	Classify and exemplify scheduling algorithms
	510104.4	Apply software development process to a given RTOS application
	510104.5	Design a given RTOS based application

Course- 2017	**COs**	**Course Outcomes**
510105A – Advanced Digital Signal Processing	510105A.1	Apply various transforms for Digital signal Processing
	510105A.2	Use appropriate filters to suit to the DSP application
	510105A.3	Choose the best DS Processor for the application development
	510105A.4	Design the DSP application for the practical use
Course- 2017	**COs**	**Course Outcomes**
510105B - Data Mining	510105B.1	Apply basic, intermediate and advanced techniques to mine the data
	510105B.2	Analyze the output generated by the process of data mining
	510105B.3	Explore the hidden patterns in the data
	510105B.4	Optimize the mining process by choosing best data mining technique
Course- 2017	**COs**	**Course Outcomes**
510105C - Network Design and Analysis	510105C.1	Apply the knowledge to design computer networks
	510105C.2	Analyze the performance of networks based on chosen metrics
	510105C.3	Design routing schemes for optimized routing
	510105C.4	Choose appropriate and advanced techniques to build the computer network
Course- 2017	**COs**	**Course Outcomes**
510105D - Data Algorithms	510105D.1	Apply the concept of advanced algorithms for searching, sorting and network algorithms
	510105D.2	Estimate the complexity of various algorithms and Measure the Choose appropriate algorithm to solve data centric problems
Course- 2017	**COs**	**Course Outcomes**
510106 - Laboratory Proficiency I	510106.1	Ability to design, plan and prepare model of a Real-Time or Embedded System
	510106.2	Ability to apply appropriate optimization algorithm to real time system for obtaining optimized solution
	510106.3	Ability to apply appropriate scheduling policy for automation of planning
	510106.4	Ability to evaluate quality of Literature Review
	510106.5	Ability to develop a research proposal from a published

		paper
ME Semester - II		
Course- 2017	**COs**	**Course Outcomes**
510108 - Operations Research	510108.1	Identify the characteristics of different types of decision-making environments.
	510108.2	Use appropriate decision making approaches and tools.
	510108.3	Build various dynamic and adaptive models
	510108.4	Develop critical thinking and objective analysis of decision problems.
	510108.5	Apply the OR techniques for efficacy.
Course- 2017	**COs**	**Course Outcomes**
510109 – System Simulation and Modeling	510109.1	To apply modeling to understand system behavior
	510109.2	To design the simulation scheme for particular system
	510109.3	To analyze the modeled and simulated systems
	510109.4	To compare the results of simulations confined to real world application
Course- 2017	**COs**	**Course Outcomes**
510110 – Machine Learning	510110.1	Acquire fundamental knowledge of learning theory
	510110.2	Design and evaluate various machine learning algorithms
	510110.3	Use machine learning methods for multivariate data analysis in various scientific fields
	510110.4	Choose and apply appropriate Machine Learning Techniques for analysis, forecasting, categorization and clustering of the data
Course- 2017	**COs**	**Course Outcomes**
510111A – Image Processing	510111A.1	Apply relevant mathematics required for image processing
	510111A.2	Perform and analyze various image processing methods using appropriate tools
	510111A.3	Use various image processing methods in spatial and frequency domain
	510111A .4	Explore current trends and future scope in image processing applications
Course- 2017	**COs**	**Course Outcomes**

510111B – Web Mining	510111B .1	Transform Web Information into analytical form
	510111B.2	Use various means to analyze and synthesize Social Networking information
	510111B.3	Use appropriate tools used in analyzing the web information
Course- 2017	**COs**	**Course Outcomes**
510111C- Pervasive and Ubiquitous Computing	510111C .1	Design and implement primitive pervasive applications
	510111C.2	Analyze and estimate the impact of pervasive computing on future computing applications and society
	510111C.3	Develop skill sets to propose solutions for problems related to pervasive computing system
	510111C.4	Design a preliminary system to meet desired needs within the constraints of a particular problem space
Course- 2017	**COs**	**Course Outcomes**
510111D- Network Security	510111D.1	Design and choose appropriate security model
	510111D.2	Apply security means to various applications
	510111D.3	Apply security algorithms in various environments for network security
	510111D.4	Design network security solutions
	510111D.5	Select appropriate tools to thwart network attacks
Course- 2017	**COs**	**Course Outcomes**
510112- Seminar- I	510112.1	To use multiple thinking strategies to examine real-world issues and explore creative avenues of expression,.
	510112.2	To acquire, articulate, create and convey intended meaning using verbal and non-verbal method of communication.
	510112.3	To learn and integrate, through independent learning in sciences and technologies, with disciplinary specialization and the ability to integrate information across
Course- 2017	**COs**	**Course Outcomes**
510113 - Laboratory Proficiency- II	510113.1	Ability to apply operations research techniques for solving given problems.
	510113 .2	Ability to apply simulation and modeling techniques for solving given problems.
	510113.3	Ability to make use of machine learning for giving safety solutions.

	510113.4	Ability to apply SDLC to prepare documents for the given problem.
ME Semester – III		
Course- 2013	**COs**	**Course Outcomes**
610101 – Advanced Storage Systems and Infrastructure Management	610101.1	Ability to evaluate storage architecture
	610101.2	Ability to understand logical and physical components of a storage Infrastructure including storage subsystems
	610101.3	Ability to describe storage networking technologies and data archival Solution
	610101.4	Ability to understand and articulate business continuity solutions Including, backup and recovery technologies, and local and remote Replication solutions
	610101.5	Ability to identify parameters of infrastructure management and describe Common infrastructure management activities and solutions
Course- 2013	**COs**	**Course Outcomes**
610102 – Advanced Unix Programming	610102.1	To explore the concepts and functions of Process and I/O Management
	610102.2	To optimize processing using multithreading.
	610102.3	To realize the implementation of UNIX file system.
	610102.4	To apply Socket Programming and IPC on processes.
Course- 2013	**COs**	**Course Outcomes**
610103B – Cloud Computing	610103B.1	Explore effective techniques to design Cloud Systems.
	610103B.2	Use various services offered for cloud environment
	610103B.3	Apply computing security fundamentals confined to cloud environment
	610103B.4	Use various selection methodologies for cloud computing
	610103B.5	Apply patterns for cloud applications development.
Course- 2013	**COs**	**Course Outcomes**
610104 – Seminar –II	610104.1	To use multiple thinking strategies to examine real-world issues and explore creative avenues of expression
	610104.2	To acquire, articulate, create and convey intended meaning using verbal and non-verbal method of

		communication.
	610104.3	To learn and integrate, through independent learning in sciences and technologies, with disciplinary specialization and the ability to integrate information across
Course- 2013	**COs**	**Course Outcomes**
610105 - Dissertation Stage – I	610105.1	Conduct thorough literature survey confined to the domain of choice
	610105.2	Develop presentation skills to deliver the technical contents
	610105.3	Furnish the report of the technical research domain
	610105.4	Analyze the findings and work of various authors confined to the chosen domain
ME Semester - IV		
Course- 2013	**COs**	**Course Outcomes**
610106 – Seminar –III	610106.1	To use multiple thinking strategies to examine real-world issues and explore creative avenues of expression,
	610106.2	To acquire, articulate, create and convey intended meanir using verbal and non-verbal method of communication.
	610106.3	To learn and integrate, through independent learning in sciences and technologies, with disciplinary specialization and the ability to integrate information across
Course- 2013	**COs**	**Course Outcomes**
610107 - Dissertation Stage – II	610107.1	Show evidence of independent investigation
	610107.2	Critically analyze the results and their interpretation ; infer findings
	610107.3	Report and present the original results in an orderly way and placing the open questions in the right perspective.
	610107.4	Link techniques and results from literature as well as actual research and future research lines with the research
	610107.5	Appreciate practical implications and constraints of the specialist subject