Course Outcomes - Academic Year 2019-20 3rd Semester

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
1	Analog Electronic Circuits	CO1	Define semiconductor device and different operating condition and their performance parameter. Analyze and design the FET and BJT biasing circuit	2
		CO2	Describe the ac and dc signal analysis of BJT and FET	3
		CO3	Understand and describe the concept of frequency analysis of amplifier circuits	2
		CO4	Understand the Design Procedure combinational circuit using Op Amp	2
		CO5	Understand the concepts of different types of power amplifiers	2
		CO6	Analize the behavious the sinosodial oscillators & feed back circuis	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
2	Signals And Systems	CO1	Characterize and analyze the properties of CT and DT signals and systems.	3
		CO2	Analyze CT and DT systems in Time domain using convolution	3
		CO3	Represent CT and DT systems in the Frequency domain using Fourier analysis tools like CTFS,CTFT,DTFS and DTFT.	2
		CO4	Conceptualize the effects of sampling a CT signal.	3
		CO5	Analyze CT and DT systems using Laplace transforms	3
		CO6	Analyze CT and DT systems using Z Transforms.	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
3	Mathematics – III	CO1	Apply & solve Analytic Function, Cauchy-Riemann equations, line integral in complex plane, Cauchy Integral theorem, Taylor's series, Maclaurin's series, Laurent's series.	3
		CO2	Solve and explain Residue Integration method, Evaluation of Real Integrals, Error & Error Propagation, Lagranges Interpolation, Newton's Divided Difference Interpolation, Newton's Forward and backward Interpolation, Spline's Interpolation.	3, 2
		CO3	Explain Trapezoidal Rule, Simpson's 1/3rd Rule, Simpson's 3/8th Rule, Gauss Integral Formula, Euler's Method for ODE, Runge-Kutta 2nd order and 4th order Method, Multi-Step method.	2
		CO4	Apply & solve Probability & Random Variables, Probability Distribution Funtion, Probability Density Function, Bionomial Distribution, Poisson's Distribution, Uniform Distribution, Normal Distribution.	3
		CO5	Apply & solve distribution of several random variable, scope of statistics & random sampling, sampling distribution, correlation analysis, regression analysis.	3
		CO6	Solve Fitting of straight lines, Estimation of Parameter & statistical Hypothesis.	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
4	Organisational Behaviour	CO1	Define organisational behaviour, and explain nature of learning.	1,2
		CO2	Define personality and explain determinants of personality, personality Traits.	1,2
		CO3	Explain perception and explain perceptual process, importance of perception in OB.	1,2
		CO4	Explain types of communication , gateways and Barriers to communication, communication as a tool for improving Interpersonal Effectiveness.	2
		CO5	Explain Theories of Leadership-Trait theory, Leader Behaviour theory, Contingency Theory, Leadership and Followership, How to be an effective leader.	2
		CO6	Explain organizational culture and organizational effectiveness.	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
5	Object Oriented Programming Using Java	CO1	Explain the basic concepts and features of OOPS, use of compiler and intrepreter in Java programming. Able to acquire the knowledge on JDK, JRE, JVM. And program execution.	2
		CO2	Understand the use of classes, objects, members of a class and relationships among them in different scenario. Able to explain the inheritance and string manipulation for various scenario.	2
		CO3	Understand and demonstrate the use of data abstraction, polimorphism, use of exception handling and multi threading.	2,3
		CO4	Understand the use of IO strean in java application. Acquire the idea of GUI design using various componemts of Applet and AWT.	2
		CO5	Make use of MVC architecture to develop various advanced GUI application using the module like SWING and JavaFX.	3
		CO6	Understand the impact of exception handling to avoid abnormal termination of program using checked and unchecked exceptions.	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
6	Analog Electronic Circuits Lab.	CO1	Identify relevant information to supplement to the Analog Electronic Circuitcourse.	3
		CO2	Setup testing strategies and select proper instruments to evaluate performance characteristics of electronic circuit.	4
		CO3	Choose testing and experimental procedures on different types of electronic circuit and analyze their operation different operating conditions.	1
		CO4	Evaluate possible causes of discrepancy in practical experimental observations in comparison to theory.	4
		CO5	Practice diferent types of wiring and instruments connections keeping in mind technical ,Economical ,safety issues.	1
		CO6	Prepare professional quality textual and graphical presentations of laboratory data and Computational results, incorporating accepted data analysis and synthesis methods, Mathematical software and word processing tools.	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
7	Signals And Systems Lab Using Software	CO1	Understand basics of MATLAB syntax, functions and programming.	1
		CO2	Learn to Generate and characterize various continuous and discrete time signals.	2
		CO3	Learn the basic operations on the signals.	2
		CO4	Design and analyze linear time-invariant (LTI)systemsand compute itsresponse.	3
		CO5	Analyze the spectral characteristics ofsignals using Fourier analysis.	3
		CO6	Analyze the systems using Laplace transform and Z-transform.	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
8	OOP Using Java Lab	CO1	Understand the programming language concepts	2
		CO2	Write, Debug and document well-structured java applications	3
		CO3	Implement Java classes from specification, create and use objects from predefined class libraries	3
		CO4	Understand the behaviour of primitive data types , control statements , object reference and arrays	2
		CO5	Implement Modular , multithreading and event driven programming	3
		CO6	Implement interface, inheritance polymorphism,exception handling, file I/O and multithreading	3

Course Outcomes - Academic Year 2019-20 4th Semester

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
1	Electromagnetic Theory	CO1	Define and recognize different co ordinate systems to describe the spatial variations of the physical quantities dealt in electromagnetic field theory as they are functions of space and time. Apply different techniques of vector calculus to understand different concepts of electromagnetic field theory.	1
		CO2	Explain fundamental laws governing electromagnetic fields and evaluate the physical quantities of electromagnetic fields (Field intensity, Flux density etc.) in different media using the fundamental laws.	2
		CO3	Learn to Determine the electromagnetic force exerted on charged particles, current elements, working principle of various electric and electromagnetic energy conversion devices are based on this Force.	2
		CO4	Learn to Design electromagnetic energy storage devices like capacitor, inductor which are frequently used in electrical systems and choose suitable materials required to assemble such electromagnetic energy storage devices.	2
		CO5	Explain the concepts of electromagnetic waves, means of transporting energy or information, in the form of radio waves, TV signals, radar beams and light rays.	3
		CO6	Explain the concepts of guided structures like transmission line, means of transporting energy or information, commonly used in power distribution and communication.	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
2	Digital Systems Design	CO1	Understand number representation and conversion between different representation in digital electronic circuits	2
		CO2	Analyze logic processes and implement logical operations using combinational logic circuits.	3
		CO3	Analyze the concepts of combinational circuits and design diferent types of cominational circuits.	3
		CO4	Understand concepts of sequential circuits and to analyze sequential systems in terms of state machines.	2
		CO5	Implement combinational and sequential circuits using VHDL.	4
		CO6	Understand characteristics of memory and their classifications	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
3	Network Theory	CO1	Apply network theorems for the analysis of electrical circuits	3
		CO2	Explain the transient and steady state response of electrical circuit	2
		CO3	Analyze circuits in the sinusoidal steady state(Single phase & Three phase)	4
		CO4	Analyze two port circuit behavior	4
		CO5	Learn how to Design low pass, high pass, band pass and band elimination filter networks	2
		CO6	Explain transfer functions of circuits and analysis of stability using poles of the transfer Function	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
4	Semiconductor Devices	CO1	Utilize semiconductor models to analyze carrier densities and carrier transport	2
		CO2	Understand and utilize the basic governing equations to analyze semiconductor devices.	2
		CO3	Understand and analyze the inner working of semiconductor p-n diodes, Schottky barrier diodes and new semiconductor devices	2
		CO4	Understand the electron energy band theory description of metals, semiconductors, and insulators	2
		CO5	Understand the fundamentals of intrinsic semiconductors, including the energy gap, how conductivity depends on temperature through charge carrier density and how photons can influence conductivity	2
		CO6	Understand the basic operation of the MOSFET including depletion and inversion and to understand how drain current depends on the drain and gate voltages	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
5	Data Structure	CO1	Explain various linear data structures like stacks, queues, linked lists using static and dynamic allocation and use them in solving problems.	2
		CO2	Understand the recursive and non-recursive procedures for solving problems like searching mechanism (linear search, binary search, hashing).	2,3
		CO3	Acquire the knowledge of the nonlinear data structures like binary tree, binary search tree and threaded binary trees and use them in designing applications like sorting, expression trees etc.	2
		CO4	Apply the various sorting algorithms including bubble sort, insertion sort, selection sort, heap sort and quick sort.	3
		CO5	Understand algorithms for graph traversals and shortest path problems.	2
		CO6	Choose appropriate abstract data types and algorithms to solve particular problems.	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES — Students will be able to :	BTL
6	Engineering Economics	CO1	Understand the scope, basics of the Economics. Able to explain the demand and supply for maintaning the market equilibrium.	2
		CO2	Explain the law of production.	2
		CO3	Understand the analysis of the cost, revenue and its minimization.	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
6	Engineering Economics	CO4	Understand the market structure and break even analysis	2
		CO5	Explain the effect of interest and depreciation capital assets. Apply the engineering project cost evaluation for various projects.	3
		CO6	Explain the inflation, cause and measures and understand the banking system	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
7	Electronic Device Laboratory	CO1	Learn the basics of gates.	2
		CO2	Construct basic combinational circuits and verify their functionalities	4
		CO3	Apply the design procedures to design basic sequential circuits	3
		CO4	Learn about counters	3
		CO5	Learn about Shift registers	2
		CO6	Understand the basic digital circuits and to verify their operation	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
8	Digital System Design Laboratory	CO1	Learn the basics of gates.	2
		CO2	Construct basic combinational circuits and verify their functionalities	4
		CO3	Apply the design procedures to design basic sequential circuits	3
		CO4	Learn about counters	3
		CO5	Learn about Shift registers	2
		CO6	Understand the basic digital circuits and to verify their operation	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
9	Network Theory Laboratory	CO1	Analyze Practical implementation of the fundamental electrical theorems and modeling of simple electrical systems	4
		CO2	Find different parameter values of two port network systems.	1
		CO3	Compare the frequency responses between different filters	2
		CO4	Measure the inductances of different coupled circuits.	3
		CO5	Analyze & Compare resonance in R-L-C series and parallel circuit.	4
		CO6	Develop analytical skills to compare experimental results with theoretical concepts of network theory.	3

Course Outcomes - Academic Year 2019-20 5th Semester

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
1	Digital VLSI Design	CO1	Understand and explain the different VLSI design methodology & fabrications process	2
		CO2	Explain the construction and operation of different MOS devices	3
		CO3	Diffrentiate between static and switching characterstics of MOS inverter circuit	4
		CO4	Analyze and design the different combinational and sequential MOS logic circuit.	3
		CO5	Analyze and design the dynamic logic circuit	3
		CO6	Explain the principle and applications of semecondocter memory device	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
2	Control Systems	CO1	Categorize different types of system and identify a set of algebraic equations to represent and model a complicated system into a more simplified form.	4
		CO2	Relate any system in Laplace domain to illustrate different specification of the system using transfer function concept.	2
		CO3	Interpret different physical and mechanical systems in terms of electrical system to construct equivalent electrical models for analysis.	2
		CO4	Apply time domain analysis to predict and diagnose transient performance parameters of the system for standard input functions.	3
		CO5	Learn to Formulate different types of analysis in frequency domain to explain the nature of stability of the system.	2
		CO6	Identify the needs of different types of controllers and compensator to ascertain the required dynamic response from the system.	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
3	Digital Signal Processing	CO1	Apply their knowlwdge to design LTI systems using Z transform technique.	3
		CO2	Apply their knowlwedge to design linear filter for long data sequence using DFT and IDFT technique	3
		CO3	Understand and design different form of FIR and IIR filter structures.	2
		CO4	Design FIR and IIR filters with desired frequency response.	4
		CO5	Understand the implementation of DFT interm of FFT as well as some of its application(Computation of convolution sum, Spectral analysis)	2
		CO6	Understand the concept of adaptive filters and application .	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
4	Analog Communication	CO1	Diffrentiate the types of signals and calculate the energy, power of a signal	4
		CO2	Apply the knowledge of statistical theory of communication and explain the conventional analog communication system.	3
		CO3	Undrstand the Concepts of different analog modulation technique.	2
		CO4	Analyze and allocate performance objectives to components of an analog communication system and to design analog communication systems.	3
		CO5	Analyze various methods of baseband/band pass Analog transmission and detection	3
		CO6	Apply the concepts of signals processing and evaluate the performance of Analog communication system in the presence of difrent types noise.	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
5	Fiber Optics & Optoelectronics Devices	CO1	Understand the basic concepts of Optical fiber device and optical fiber communication	2
		CO2	Classify the structures of diffrent types Optical fiber , like single mode, multimode and graded index otical fiber	4
		CO3	Discuss the channel impairments like losses and dispersion	2
		CO4	Analyze various coupling losses	3
		CO5	Classify the Optical sources and detectors and to discuss their principle	2
		CO6	Analyze various methods of baseband/band pass fiber communication system	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
6	Advance Lab - I (VLSI & Embedded System Lab)	CO1	Implement HDL code for basic as well as advanced digital integrated circuits.	3
		CO2	Import the logic modules into FPGA Boards.	3
		CO3	Synthesize, Place and Route the digital IPs.	4
		CO4	Design, Simulate and Extract the layouts of Analog IC Blocks using EDA tools.	4
		CO5	Describe the ARM microprocessor architectures and its feature.	2
		CO6	Interface the advanced peripherals to ARM based microcontroller	4

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
7	Operating System	CO1	Explain the role, structure, services and types of operating system also discuss various issues and types of system calls.	2
		CO2	Compare and contrast the common algorithm for both preemptive and non preemptive task in os such as FCFS, SJF, Priority, RR scheduling ,differentiate between process and thread ,various threading issues, cite the various approach to solve the problem of mutual exclusion related to critical regions.	2
		CO3	Understand the concept of deadlock in Operating systems how they can be managed and avoided through the implementation of Banker's algorithm and resource request algorithm and also cite different methods involved in recovery from deadlock.	2
		CO4	Learn how virtual memory is used and describe the operation of memory management unit, also define various page replacement strategies like FIFO, LRU, Optimal, also able to analyse the use of demand paging, and segmentation	2
		CO5	Explain various issues related to file system such as structure, access method, efficiency, performance directory structure and its implementation	2
		CO6	Understand various approaches of free space management and apply the knowledge to implement disk scheduling algorithms such as SSTF, LOOK, SCAN, C-LOOK. C-SCAN and also illustrating the overview of I/o hardware application I/O interface kernel I/O subsystem.	2

Course Outcomes - Academic Year 2019-20 6TH SEMESTER

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
1	Green Technologies	CO1	Explain the concept of various forms of renewable energy	2
		CO2	Outline division aspects and utilization of renewable energy sources for both domestics and agricultural application	2
		CO3	Understand the need of Wind Energy and the various components used in energy generation and know the classifications	2
		CO4	Understand the concept of Biomass energy resources and their classification,	2
		CO5	Compare Solar, Wind and bio energy systems, their prospects, Advantages and limitations	2
		CO6	Explain green guidelines such as GRIHA and LEED .	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
2	Digital Communication	CO1	Understand the concepts of different digital modulation system	2
		CO2	Apply the knowledge of statistical theory of communication and explain the conventional digital communication system.	3
		CO3	Apply the concepts of signals processing and mathematically evaluate the performance of digital communication system in the presence of difrent types noise.	3
		CO4	Understand and describe the different error control codes like block code, Hamming Code , cyclic code, BCH code, copnvolution Code etc.	2
		CO5	Describe and analyze the digital communication system with spread spectrum modulation like Direct SS Technology and Frequency Hoping SS technology	2
		CO6	Design as well as conduct experiments, analyze and interpret the results to provide valid conclusions for digital modulators and demodulator using hardware components and communication systems using software simulation tools.	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
3	High Frequency Engineering	CO1	Understand the basic concepts and applications of RF Microwave spectrum	2
		CO2	Apply the analysis methods to determine circuit properties of passive/active microwave device	3
		CO3	Understand basic communication link design	2
		CO4	Analize signal power budget, noise evaluation and link carrier to noise ratio.	3
		CO5	Understand the radio-wave propagation through different mode	2
		CO6	Identify and demonstrate the characteristics of radio-wave.	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
4	Mobile Communication	CO1	Understandand identify the GSM, GPRS and Bluetooth software model for mobile computing	2
		CO2	The ability to develop applications that are mobile-device specific and demonstrate current practice in mobile computing contexts.	3
		CO3	Understanding of the characteristics and limitations of mobile hardware devices including their user-interface modalities	2
		CO4	Analyze QoS over wire and wireless channels	3
		CO5	Able to promote the awareness of the life-long learning,business ethics, professional ethics and currentmarketing scenarios.	2
		CO6	Implement software for mobile computing applications	3

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL
5	Antennas And Wave Propagation	CO1	Understand the basic concepts of antenna and Identify basic antenna parameters.	2
		CO2	Design and analyze antenna arrays.	3
		CO3	Design and analyze wire and aperture antennas.	2
		CO4	Measure the parameter of antenna like gain and radiation pattern	4
		CO5	Understand the radio-wave propagation through free space and guided medium	2
		CO6	Identify the characteristics of radio-wave propagation.	2

SL NO	SUBJECT	CO#	COURSE OUTCOMES / Students will be able to :	BTL

SL NO	SUBJECT	CO#	COURSE OUTCOMES	BTL
6	Business Communication & Skill For Interview	CO1	Communicate effectively in work places.	3
		CO2	Make effective presentation.	3
		CO3	Develop problem solving skills.	3
		CO4	Extend engineering ethics and human values.	2
		CO5	Develop leadership skills.	3
		CO6	Face group discussion and interview..	3

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
7	Computer Network and Data Communication	CO1	Describe the basic concepts of data communication, networks, Internet, OSI and TCP/IP models	2
		CO2	Illustrate the Digital-to-Digital, Analog-to-Analog and Digital-to-Analog conversion techniques	2
		CO3	Explain Analog-to-Analog conversion, different types of multiplexing techniques and transmission	2
		CO4	Understand the different functionalities of data link layer and discuss error detection and correction codes	2
		CO5	Discuss the different media access control protocols and IEEE standards for wired and wireless LANs	2
		CO6	Understand the routing protocols and analyze how to assign the IP addresses for the given network	2

Course Outcomes - Academic Year 2019-20 7TH SEMESTER

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
1	Internet Of Things (IOT)	CO1	Explain the various internet protocols, addressing schemes, web server and application servers and understand the structure of a web page.	2
		CO2	Understand the integration of CSS, HTML and Java scripting languages to develop and validate the web applications.	2
		CO3	Understand the development of dynamic web pages and deployment of the web applications in web servers. Explain various life cycle methods of server side scripting.	2
		CO4	Understand various security threats in the web application, role of firewall and proxy gateway applications.	2
		CO5	Apply the PHP as the serverside scripting and communicate to various databases.	3
		CO6	Differentiate between Web Extension and Web Services	2

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
2	Marketing Management	CO1	Understand marketing concepts and their application to profit-oriented and non-profit oriented organizations	2
		CO2	Apply these concepts to the analysis of marketing problems and development of appropriate and creative marketing strategies to solve these problems	3
		CO3	Understand the need for a customer orientation in the competitive global business environment	2
		CO4	Have an appreciation that marketing is integrated with other functional areas of business	1
		CO5	Develope an understanding and acquiring skills in how to successfully design and implement marketing plans and strategies	2
		CO6	Understand the concept of marketing mix and its application in traditional and novel environments characterized by emerging information technologies	2

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
3	Digital Image Processing	CO1	Understand and analyze fundamental concepts of a digital image processing signa and system	2
		CO2	Analyze images in the frequency domain using various transforms technique	3
		CO3	Understand and Evaluate the techniques for image enhancement and image restoration.	2
		CO4	Examine various types of images, intensity transformations and spatial filtering.	4
		CO5	Implements various compression techniques.	4
		CO6	Implement image process and analysis algorithms and apply image processing algorithms in practical applications	4

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
4	System Design Using Integrated Circuits	CO1	Learn how to Estimate both symmetrical and un-symmetrical fault currents	2
		CO2	Explain the fundamentals of electromechanical relays and digital protective Relaying	2
		CO3	Identify suitable current transformer,voltage transformer and circuit breakers etc for fulfilling power system protection.	3
		CO4	Realize the various dynamic characteristics of digital relays for protection of transmission lines, transformers.	3
		CO5	Illustrate different protection schemes against over voltages	2
		CO6	Compare different grounding practices	2

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
5	Seminar	CO1	Represent the technical concepts and understanding of the subject	1
		CO2	Demonstrate effective communication	2
		CO3	Demonstrate the presentation ability in front of a group of experts	2
		CO4	Apply modern software and/or application tools for representing	3
		CO5	Analyse the modern and contemporary trends in the engineering field	3
		CO6	Show professional ethics on a stage	1

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
6	Minor Project	CO1	Demonstrate the capability of effectively utilising the alotted time	3
		CO2	Apply the theoritical branch knowledge to the practical engineering product/services	3
		CO3	Show contriburtion to the team work	1
		CO4	Show cooperation to the team work	1
		CO5	Demonstrate the capability of learning from the failures	3
		CO6	Mentor/lead the team/a group of people	3

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
7	Cryptography and Network Security	CO1	Classify the symmetric encryption techniques	2
		CO2	Illustrate various Public key cryptographic techniques	2
		CO3	Understand the authentication and hash algorithms.	2
		CO4	Elaborate on authentication applications	2
		CO5	Summarize the intrusion detection and its solutions to overcome the attacks.	2
		CO6	Understand the basic concepts of system level security.	2

Course Outcomes - Academic Year 2019-20 8TH SEMESTER

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
1	Entrepreneurship Development	CO1	Define what entrepreneurship is, consider how everyone has the potential to be entrepreneurial, and to explore the constituents of the entrepreneurial process	1
		CO2	Identify steps required to research the potential for an innovative idea for the development of an existing enterprise, a new venture or a social change opportunity	3
		CO3	Examine the key resources required to exploit an innovative idea or opportunity to develop an existing business, launch a new venture, or initiate a social enterprise	3
		CO4	Identify the key steps required for exploiting an innovative idea or opportunity to develop an existing business, launch a new venture, or initiate a social enterprise	3
		CO5	Understand the basic development of entrepreneurship as a profession.	2
		CO6	Understand business models.	2

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
2	Mobile Computing	CO1	Understandand identify the GSM, GPRS and Bluetooth software model for mobile computing	2
		CO2	The ability to develop applications that are mobile-device specific and demonstrate current practice in mobile computing contexts.	3
		CO3	Understanding of the characteristics and limitations of mobile hardware devices including their user-interface modalities	2
		CO4	Analyze QoS over wire and wireless channels	3
		CO5	Able to promote the awareness of the life-long learning,business ethics, professional ethics and currentmarketing scenarios.	2
		CO6	Implement software for mobile computing applications	3

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
3	Seminar	CO1	Represent the technical concepts and understanding of the subject	1
		CO2	Demonstrate effective communication	2
		CO3	Demonstrate the presentation ability in front of a group of experts	2
		CO4	Apply modern software and/or application tools for representing	3
		CO5	Analyse the modern and contemporary trends in the engineering field	3
		CO6	Show professional ethics on a stage	1

SL NO	SUBJECT	CO# / Students will be able to :	COURSE OUTCOMES	BTL
4	Major Project	CO1	Demonstrate fair knowledge of most concepts of Engineering	3
		CO2	Apply the multi-disciplinary knowledge through the project	3
		CO3	Show independent decision making capability	1
		CO4	Apply modern tools and softwares for developing products and/or services	3
		CO5	Explain clear objectives of any assignment	3
		CO6	Mentor/lead the team/a group of people	3