Course Outcomes (CO)

(R 2013)

Branch: B.Tech Information Technology

Course Code		Semester:1
Course Name:	Technical English – I	
Course Outcome		
HS6151.1	Read different genres of texts adopting various reading strategies.	
HS6151.2	Write cohesively and coherently and flawlessly avoiding grammatical errors, using a wide vocabulary range, organizing their ideas logically on a topic.	
HS6151.3	Listen/view and comprehend different spoken discourses/excerpts in different accents.	
HS6151.4	Speak clearly, confidently, comprehensibly.	
HS6151.5	Communicate with one or many listeners using appropriate communicative strategies	

Subject Code:	MA 6151	Semester:1
Subject Name:	Mathematics – I	
Course Outcome		
MA 6151.1	Use both the limit definition and rules of differentiation to differentiate functions	
MA 6151.2	Apply differentiation to solve maxima and minima problems.	
MA 6151.3	Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus. Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts. Determine convergence/divergence of improper integrals and evaluate convergent improper integrals.	
MA 6151.4	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.	
MA 6151.5	Apply various techniques in solving differential equations.	

Subject Code:	PH6151	Semester:1
Subject Name:	Engineering Physics – I	
Course Outcome		
PH 6151.1	Acoustics, Production and the applications of Ultrasonics in Engineering and Medical Fields.	
PH 6151.2	Interference, different types of lasers and its application in various fields.	
PH 6151.3	Fiber optics and optical fiber and its applications.	
PH 6151.4	Development of quantum mechanics and its necessary, wave equations and its applications, X - Ray.	
PH 6151.5	Crystallography and can able to calculate the crystal parameters	

Subject Code:	CY6151	Semester:1
Subject Name:	Engineering Chemistry – I	
Course Outcome		
CY 6151.1	To make the students conversant with basics of polymer chemistry.	
CY 6151.2	To make the student acquire sound knowledge of second law of thermodynamics and second law based derivations of importance in engineering applications in all disciplines.	
CY 6151.3	To acquaint the student with concepts of important photophysical and photochemical processes and spectroscopy.	
CY 6151.4	To develop an understanding of the basic concepts of phase rule and its applications to single and two component system and appreciate the purpose and significance of alloys.	
CY 6151.5	To acquaint the students with the basics of nano materials, their properties and applications.	

Subject Code:	GE6151	Semester:1
Subject Name:	Computing Programming	
Course Outcome		

GE 6151.1	Develop simple applications in C using basic constructs
GE 6151.2	Design and implement applications using arrays and strings
GE 6151.3	Develop and implement applications in C using functions and pointers
GE 6151.4	Develop applications in C using structures
GE 6151.5	Design applications using sequential and random access file processing

Subject Code:	GE 6152	Semester:1
Subject Name:	Engineering Graphics	
Course Outcome		
GE 6152.1	Perform free hand sketching of basic geometrical constructions and multiple views of objects.	
GE 6152.2	Do orthographic projection of lines and plane surfaces.	
GE 6152.3	Draw projections and solids and development of surfaces.	
GE 6152.4	Prepare isometric and perspective sections of simple solids.	
GE 6152.5	Demonstrate computer aided drafting.	

Subject Code:	GE6161	Semester:1
Subject Name:	COMPUTER PRACTICES LAB -I	
Course Outcome		
GE6161.1	Apply good programming design methods for program development.	
GE6161.2	Design and implement C programs for simple applications.	
GE6161.3	Develop recursive programs.	
GE6161.4	Develop applications in C using structures	
GE6161.5	Design applications using sequential and random access file processing	

Subject Code:	GE6162	Semester:1
Subject Name:	ENGINEERING PRACTICES LABORATORY	
Course Outcome		
GE6162.1	Design different philosophies for steel structures and the basic steps in the design process	
GE6162.2	Develop problem solving skills, including the ability to convert an open-ended problem statement into a statement of work and/or a set of design specifications	
GE6162.3	Understand the plumbing and carpentry components of residential and industrial buildings	
GE6162.4	Understand about various recent tools in mechanical engineering	
GE6162.5	Students will able to learnt welding and basic machinery	

Subject Code:	GE 6163	Semester:1
Subject Name:	PHYSICS AND CHEMISTRY LABORATORY – I	
Course Outcome		
GE 6163-.1	To provide the basic practical exposure to all the engineering and technological streams in the field of physics.	
GE 6163-.2	To provide the basic practical exposure to all the engineering and technological streams in the field of chemistry	
GE 6163-.3	The students are able to know about the water containing impurities and some physical parameters	
GE 6163-.4	To gain the knowledge about light, sound, laser, fiber optics and magnetism.	
GE 6163-.5	To develop the knowledge of conductometric titration and viscometry	

Subject Code:	HS6251	**Semester:2**
Subject Name:	**Technical English – II**	
Course Outcome		
HS6251.1	Read different genres of texts, infer implied meanings and critically analyse and evaluate them for ideas as well as for method of presentation.	
HS6251.2	Write effectively and persuasively and produce different types of writing such as narration, description, exposition and argument as well as creative, critical, analytical and evaluative writing.	
HS6251.3	Listen/view and comprehend different spoken excerpts critically and infer unspoken and implied meanings.	

HS6251.4	Speak convincingly, express their opinions clearly.
HS6251.5	Initiate a discussion, negotiate, argue using appropriate communicative strategies.

Subject Code:	MA6251	**Semester:2**
Subject Name:	**Mathematics – II**	
Course Outcome		
MA6251.1	Eigen values and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices.	
MA6251.2	Gradient, divergence and curl of a vector point function and related identities.	
MA6251.3	Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.	
MA6251.4	Analytic functions, conformal mapping and complex integration	
MA6251.5	Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients	

Subject Code:	PH6251	**Semester:2**
Subject Name:	**Engineering Physics – II**	
Course Outcome		
PH6251.1	Electric conduction, electrical conductivity, carrier concentration of metals.	
PH6251.2	Semiconductors, carrier concentration of semiconductors, Hall effect and semiconductor devices.	
PH6251.3	Types of magnetic materials, ferro magnetic materials, magnetic storage devices, Super conductors and their properties and applications.	
PH6251.4	Dielectrics, properties and its applications, ferro electricity.	
PH6251.5	Modern engineering materials, Nano materials and Carbon nano tubes.	

Subject Code:	CY6251	**Semester:2**
Subject Name:	**Engineering Chemistry – II**	
Course Outcome		
CY6251.1	To make the students conversant with boiler feed water requirements, related problem and water treatment techniques.	
CY6251.2	Principles of electrochemical reactions, redox reactions in corrosion of materials and methods for corrosion prevention and protection of materials.	
CY6251.3	Principles and generation of energy in batteries, nuclear reactors, solar cells, wind mills and fuel cells.	
CY6251.4	Preparation, properties and applications of engineering materials	
CY6251.5	Types of fuels, calorific value calculations, manufacture of solid, liquid and gaseous fuels.	

Subject Code:	CS6201	**Semester:2**
Subject Name:	**DIGITAL PRINCIPLES AND SYSTEM DESIGN**	
Course Outcome		
CS6201.1	Perform arithmetic operations in any number system.	
CS6201.2	Simplify the Boolean expression using K-Map and Tabulation techniques.	
CS6201.3	Use Boolean simplification techniques to design a combinational hardware circuit.	
CS6201.4	Design and Analysis of a given digital circuit – combinational and sequential.	
CS6201.5	Design using PLD.	

Subject Code:	**CS6202**	**Semester:2**
Subject Name:	**Programming and Data Structures I**	
Course Outcome		
CS6202.1	Use the control structures of C appropriately for problems.	
CS6202.2	Implement abstract data types for linear data structures.	
CS6202.3	Apply the different linear data structures to problem solutions.	
CS6202.4	Critically analyse the various algorithms.	
CS6202.5	Apply different Hashing and set algorithms	

Subject Code:	**GE6262**	**Semester:2**
Subject Name:	**PHYSICS AND CHEMISTRY LABORATORY – II**	
Course Outcome		
GE6262.1	To provide the basic practical exposure to all the engineering and technological streams in the field of physics. .	
GE6262.2	To provide the basic practical exposure to all the engineering and technological streams in the field of chemistry.	
GE6262.3	The students are able to know about the water containing impurities and some physical parameters.	
GE6262.4	To gain the knowledge about properties of matter, semiconductors and solar cells	
GE6262.5	To develop the knowledge of spectrophotometry.	

Subject Code:	**IT6211**	**Semester:2**
Subject Name:	**DIGITAL LABORATORY**	
Course Outcome		
IT6211 .1	Use boolean simplification techniques to design a combinational hardware circuit.	
IT6211 .2	Design and Implement combinational and sequential circuits.	
IT6211 .3	Design the different functional units in a digital computer system.	
IT6211 .4	Analyze a given digital circuit – combinational and sequential.	
IT6211 .5	Design and Implement a simple digital system.	

Subject Code:	**IT6212**	**Semester:2**
Subject Name:	**PROGRAMMING AND DATA STRUCTURES LABORATORY I**	
Course Outcome		
IT6212 .1	Design and implement C programs for implementing stacks, queues, linked lists.	
IT6212 .2	Apply the different data structures for implementing solutions to practical problems.	
IT6212 .3	Apply good programming design methods for program development	
IT6212 .4	Develop searching and sorting programs.	
IT6212 .5	Develop C programs for various hashing techniques.	

Subject Code:	MA6351	S	3
Subject Name:	Transforms and Partial Differential Equations		
Course Outcome			
MA6351.1	Understand how to solve the given standard partial differential equations.		
MA6351.2	Solve differential equations using Fourier series analysis which plays a vital role in engineering applications		
MA6351.3	Appreciate the physical significance of Fourier series techniques in solving one and two dimensional heat flow problems and one dimensional wave equations		
	Understand the mathematical principles on transforms and partial differential equations would provide them the ability to formulate and solve some of the physical problems of engineering.		
	Use the effective mathematical tools for the solutions of partial differential equations by using Z transform techniques for discrete time systems.		

Subject Code:	CS6301	S	3
Subject Name:	PROGRAMMING AND DATA STRUCTURES II		
Course Outcome			
CS6301.1	Design problem solutions using Object Oriented Techniques.		
CS6301.2	Apply the concepts of data abstraction, encapsulation and inheritance for problem solutions.		
CS6301.3	Use the control structures of C++ appropriately		
CS6301.4	Critically analyze the various algorithms.		
CS6301.5	Apply the different data structures to problem solutions		

Subject Code:	CS6302	S	3
Subject Name:	DATABASE MANAGEMENT SYSTEMS		

CS6302.1	Design Databases for applications.	
CS6302.2	Use the Relational model, ER diagrams	
CS6302.3	Apply concurrency control and recovery mechanisms for practical problems.	
CS6302.4	Design the Query Processor and Transaction Processor	
CS6302.5	Apply security concepts to databases.	
Subject Code:	CS6303	S 3
Subject Name:	COMPUTER ARCHITECTURE	
Course Outcome		
CS6303.1	Design arithmetic and logic unit.	
CS6303.2	Design and analyze pipelined control units	
CS6303.3	Evaluate performance of memory systems	
CS6303.4	Understand parallel processing architectures.	
CS6303.5	Understand Different ways of communicating with I/O devices and standard I/O interfaces.	
Subject Code:	CS6304	S 3
Subject Name:	ANALOG AND DIGITAL COMMUNICATION	
Course Outcome		
CS6304.1	Apply analog and digital communication techniques.	
CS6304.2	Use data and pulse communication techniques.	
CS6304.3	Analyze Source and Error control coding.	
CS6304.4	Utilize multi-user radio communication	
CS6304.5	operational amplifiers and their applications in the processing of analog signals	
Subject Code:	IT6311	S 3
Subject Name:	PROGRAMMING AND DATA STRUCTURES II LAB	
Course Outcome		
IT6311.1	Apply the different data structures for implementing solutions to practical problems.	
IT6311.2	Design and implement C++ programs for implementing stacks, queues, linked lists.	
IT6311.3	Develop recursive programs using tree and graphs.	
IT6311.4	Apply good programming design methods for program development.	
IT6311.5	Develop recursive programs using trees and graphs.	
Subject Code:	IT6312	S 3
Subject Name:	DATABASE MANAGEMENT SYSTEMS LAB	
Course Outcome		
IT6313.1	Populate and query a database	
IT6313.2	Design and implement a database schema for a given problem-domain	
IT6313.3	Create and maintain tables using PL/SQL.	
IT6313.4	Develop different applications	
IT6313.5	Critically analyze the use of Tables, Views, Functions and Procedures	
Subject Code:	IT6313	S 3
Subject Name:	DIGITAL COMMUNICATION LAB	
Course Outcome		
IT6313.1	Develop necessary skill in designing, analyzing and constructing digital electronic circuits.	
IT6313.2	Differentiate cascade and cascade amplifier.	
IT6313.3	Analyze the limitation in bandwidth of single stage and multi stage amplifier	

IT6313.4	Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of communication system
IT6313.5	Simulate & validate the various functional modules of a communication system

Subject Code:	MA6453	S4
Subject Name:	PROBABILITY AND QUEUEING THEORY	
Course Outcome		
MA6453.1	Be through with probability concepts	
MA6453.2	To acquire knowledge on Probability Distributions	
MA6453.3	Get exposed to the testing of hypothesis using distributions	
MA6453.4	Gain strong knowledge inn principles of Queueing theory	
MA6453.5	Get exposed to Discrete time Markov chain	

Subject Code:	EC6504	S4
Subject Name:	MICROPROCESSOR AND MICROCONTROLLER	
Course Outcome		
EC6504.1	Design and implement programs on 8086 microprocessor.	
EC6504.2	Design I/O circuits.	
EC6504.3	Design Memory Interfacing circuits.	
EC6504.4	Design and implement 8051 microcontroller based systems.	
EC6504.5	Illustrate the Bus structure and communication of microprocessor	

Subject Code:	CS6402	S4
Subject Name:	DESIGN AND ANALYSIS OF ALGORITHMS	
Course Outcome		
CS6402.1	Design algorithms for various computing problems	
CS6402.2	Analyze the time and space complexity of algorithms.	
CS6402.3	Critically analyze the different algorithm design techniques for a given problem.	
CS6402.4	Modify existing algorithms to improve efficiency.	
CS6402.5	Become familiar with the limitations of Algorithm power.	

Subject Code:	CS6401	S4
Subject Name:	OPERATING SYSTEMS	
Course Outcome		
CS6401.1	Design various Scheduling algorithms.	
CS6401.2	Apply the principles of concurrency	
CS6401.3	Design deadlock, prevention and avoidance algorithms.	
CS6401.4	Compare and contrast various memory management schemes .	
CS6401.5	Design and Implement a prototype file systems.	

Subject Code:	CS6403	S4
Subject Name:	SOFTWARE ENGINEERING	
Course Outcome		
CS6403.1	Identify the key activities in managing a software project.	
CS6403.2	Compare different process model.	
CS6403.3	Concepts of requirements engineering and Analysis Modeling.	
CS6403.4	Apply systematic procedure for software design and deployment	
CS6403.5	Compare and contrast the various testing and maintenance.	

Subject Code:	IT6411	S	4
Subject Name:	MICROPROCESSOR AND MICROCONTROLLER LAB		
Course Outcome			
IT6411.1	Write ALP programs for fixed and floating point arithmetic		
IT6411.2	interface different I/O s with processor		
IT6411.3	Generate waveforms using microprocessor		
IT6411.4	Execute programs in 8051		
IT6411.5	Explain the difference between simulator and emulator		

Subject Code:	IT6412	S	4
Subject Name:	OPERATING SYSTEMS LAB		
Course Outcome			
IT6413.1	Implement deadlock avoidance, and Detection Algorithms		
IT6413.2	Critically analyze the performance of the various page replacement algorithms		
IT6413.3	Compare the performance of various CPU Scheduling Algorithm		
IT6413.4	Create processes and implement IPC		
IT6413.5	Implement file system concepts		

Subject Code:	IT6413	S	4
Subject Name:	SOFTWARE ENGINEERING LAB		
Course Outcome			
IT6413.1	Students should be able to use open source case tools to develop software		
IT6413.2	Analyze and design software requirements in efficient manner		
IT6413.3	Use the UML analysis and design diagrams		
IT6413.4	Apply appropriate design patterns.		
IT6413.5	Compare and contrast various testing techniques		

Subject Code:	CS6551	S	5
Subject Name:	COMPUTER NETWORKS		
Course Outcome			
CS6551.1	Identify the components required to build different types of networks		
CS6551.2	Choose the required functionality at each layer for given application		
CS6551.3	Identify solution for each functionality at each layer		
CS6551.4	Trace the flow of information from one node to another node in the network		
CS6551.5	Demonstrate various types of routing techniques		

Subject Code:	IT6501	S	5
Subject Name:	GRAPHICS AND MULTIMEDIA		
Course Outcome			
IT6501.1	Effectively and creatively solve a wide range of graphic design problem		
IT6501.2	Form effective and compelling interactive experiences for a wide range of audiences		
IT6501.3	Use various software programs used in the creation and implementation of multi-media (interactive, motion/animation, presentation, etc.).		
IT6501.4	Discuss issues related to emerging electronic technologies and graphic design		
IT6501.5	Discuss issues related to hypermedia message creation & data management		

Subject Code:	CS6502	S	5
Subject Name:	OBJECT ORIENTED ANALYSIS AND DESIGN		
Course Outcome			

CS6502.1	Design and implement projects using OO concepts
CS6502.2	Use the UML analysis and design diagrams
CS6502.3	Apply appropriate design patterns
CS6502.4	Create code from design
CS6502.5	Compare and contrast various testing techniques

Subject Code:	IT6502	S
Subject Name:	DIGITAL SIGNAL PROCESSING	
Course Outcome		
IT6502.1	Perform frequency transforms for the signals.	
IT6502.2	Design IIR and FIR filters	
IT6502.3	Finite word length effects in digital filters	
IT6502.4	continuous and discrete time signals and systems	
IT6502.5	To impart knowledge about the basics of signals and systems	

Subject Code:	IT6503	S
Subject Name:	WEB PROGRAMMING	
Course Outcome		
IT6503.1	Design web pages.	
IT6503.2	Use technologies of Web Programming	
IT6503.3	Apply object oriented aspects to Scripting.	
IT6503.4	Create databases with connectivity using JDBC	
IT6503.5	Build web based application using sockets.	

Subject Code:	EC6801	S
Subject Name:	WIRELESS COMMUNICATION	
Course Outcome		
EC6801.1	Characterize wireless channels	
EC6801.2	Design and implement various signaling schemes for fading channels	
EC6801.3	Design a cellular system	
EC6801.4	Compare multipath mitigation techniques and analyze their performance	
EC6801.5	Design and implement systems with transmit/receive diversity and MIMO systems and analyze their performance	

Subject Code:	IT6511	S
Subject Name:	NETWORKS LABORATORY	
Course Outcome		
IT6511.1	Use simulation tools	
IT6511.2	Implement the various protocols.	
IT6511.3	Analyse the performance of the protocols in different layers.	
IT6511.4	Analyze various routing algorithms	
IT6511.5	Understand different transmission media and design cables for establishing a network	

Subject Code:	IT6512	S
Subject Name:	WEB PROGRAMMING LABORATORY	
Course Outcome		
IT6512.1	Design Web pages using HTML/DHTML and style sheets	
IT6512.2	Design and Implement database applications.	
IT6512.3	Create dynamic web pages using server side scripting.	

IT6512.4	Write Client Server applications.	
IT6512.5	Build web based application using sockets.	
Subject Code:	IT6513	S 5
Subject Name:	CASE TOOLS LABORATORY	
Course Outcome		
IT6513.1	Design and implement projects using OO concepts.	
IT6513.2	Use the UML analysis and design diagrams.	
IT6513.3	Apply appropriate design patterns.	
IT6513.4	Create code from design.	
IT6513.5	Compare and contrast various testing techniques	
Subject Code:	CS6601	S 6
Subject Name:	DISTRIBUTED SYSTEMS	
Course Outcome		
CS6601.1	Discuss trends in Distributed Systems	
CS6601.2	Apply network virtualization	
CS6601.3	Apply remote method invocation and objects.	
CS6601.4	Design process and resource management systems	
CS6601.5	Discuss and design process of peer to peer services , file system ,synchronization and replication	
Subject Code:	IT6601	Semester:6
Subject Name:	MOBILE COMPUTING	
Course Outcome		
IT6601.1	Explain the basics of mobile telecommunication system	
IT6601.2	Choose the required functionality at each layer for given application	
IT6601.3	Identify solution for each functionality at each layer	
IT6601.4	Use simulator tools and design Ad hoc networks	
IT6601.5	Develop a mobile application	
Subject Code:	CS6659	Semester:6
Subject Name:	ARTIFICIAL INTELLIGENCE	
Course Outcome		
CS6659.1	Identify problems that are amenable to solution by AI methods.	
CS6659.2	Identify appropriate AI methods to solve a given problem	
CS6659.3	Formalise a given problem in the language/framework of different AI methods	
CS6659.4	Implement basic AI algorithms	
CS6659.5	Design and carry out an empirical evaluation of different algorithms on a problem formalisation, and state the conclusions that the evaluation supports.	
Subject Code:	CS6660	S 6
Subject Name:	COMPILER DESIGN	
Course Outcome		
CS6660.1	Design and implement a prototype compiler	
CS6660.2	Apply the various optimization techniques	
CS6660.3	Use the different compiler construction tools.	
CS6660.4	Describe techniques for intermediate code and machine code optimisation	
CS6660.5	Turn fully processed source code for a novel language into machine code for a novel computer	

Subject Code:	IT6602	Se	6
Subject Name:	SOFTWARE ARCHITECTURES		
Course Outcome			
IT6602.1	Explain influence of software architecture on business and technical activities		
IT6602.2	Identify key architectural structures		
IT6602.3	Use styles and views to specify architecture		
IT6602.4	Examine the architectural styles		
IT6602.5	Design document for a given architecture		

Subject Code:	GE6757	Se	6
Subject Name:	Total Quality Management		
Course Outcome			
GE6757.1	The student would be able to apply the tools and techniques of quality management to manufacturing and services processes.		
GE6757.2	Explain the importance of Quality Systems and Standards		
GE6757.3	Facilitate the understanding of Quality Management principles and process		
GE6757.4	Develop an understanding on quality management philosophies and frameworks		
GE6757.5	Outline the Dimensions and Barriers regarding with Quality		

Subject Code:	IT6611	Se	6
Subject Name:	MOBILE APPLICATION DEVELOPMENT LABORATORY		
Course Outcome			
IT6611.1	Design and Implement various mobile applications using emulators.		
IT6611.2	Deploy applications to hand-held devices		
IT6611.3	Develop a mobile application		
IT6611.4	Develop an application using basic graphical primitives and databases		
IT6611.5	Make use of location identification using multithreading,RSS feed,GPS in an application		

Subject Code:	IT6612	Se	6
Subject Name:	COMPILER LABORATORY		
Course Outcome			
IT6602.1	Apply different compiler writing tools to implement the different Phases		
IT6602.2	Analyze the control flow and data flow of a typical program		
IT6602.3	Construct the intermediate representation		
IT6602.4	Design the back end of a compiler for 8086 assembler		
IT6602.5	Compare various code optimization techniques		

Subject Code:	GE6674	Se	6
Subject Name:	COMMUNICATION AND SOFT SKILLS LABORATORY		
Course Outcome			
GE6674.1	Take international examination such as IELTS and TOEFL		
GE6674.2	Make presentations and Participate in Group Discussions		
GE6674.3	Successfully answer questions in interviews.		
GE6674.4	Help to develop soft skills and inter personal skills.		
GE6674.5	To equip students with effective speaking and listening skills in English.		

Subject Code:	IT6701	Semester:7
Subject Name:	INFORMATION MANAGEMENT	

Course Outcome	
IT6701.1	Cover core relational database topics including logical and physical design and modeling
IT6701.2	Design and implement a complex information system that meets regulatory requirements; define and manage an organization's key master data entities
IT6701.3	Design, Create and maintain data warehouses.
IT6701.4	Learn recent advances in NOSQL, Big Data and related tools.
IT6701.5	Gain knowledge of Data Privacy, Data security and Organizing the structure, content and flow of a website to support effective communication

Subject Code:	CS6701	Semester:7
Subject Name:	CRYPTOGRAPHY AND NETWORK SECURITY	
Course Outcome		
CS6701.1	Compare various Cryptographic Techniques	
CS6701.2	Design Secure applications	
CS6701.3	Inject secure coding in the developed applications	
CS6701.4	To understand the fundamentals of various key distribution and management schemes.	
CS6701.5	To acquire knowledge on standard algorithms & encryption techniques used to provide confidentiality, integrity and authenticity.	

Subject Code:	IT6702	Semester:7
Subject Name:	DATA WAREHOUSING AND DATA MINING	
Course Outcome		
IT6702.1	Design and build datawarehouse	
IT6702.2	Apply tool categories for buissness analysis	
IT6702.3	Apply data mining techniques and methods to large data sets	
IT6702.4	Use data mining tools.	
IT6702.5	Compare and contrast the various classifiers	

Subject Code:	CS6703	Semester:7
Subject Name:	GRID AND CLOUD COMPUTING	
Course Outcome		
CS6703.1	Apply grid computing techniques to solve large scale scientific problems	
CS6703.2	Apply the concept of virtualization	
CS6703.3	Use the grid and cloud tool kits	
CS6703.4	Apply the security models in the grid and the cloud environment	
CS6703.5	Apply the Grid Service allows deployments of arbitrary user-defined service on the cluster.	

Subject Code:	IT6711	Semester:7
Subject Name:	DATA WAREHOUSING AND DATA MINING LAB	
Course Outcome		
IT6711.1	Apply data mining techniques and methods to large data sets.	
IT6711.2	Use data mining tools.	
IT6711.3	Compare and contrast the various classifiers	
IT6711.4	To evaluate the different models of OLAP and data preprocessing	
IT6711.5	Demonstrate the working of algorithms for data mining tasks such association rule mining, classification, clustering and regression.	

Subject Code:	IT6712	Semester:7
Subject Name:	SECURITY LABORATORY	
Course Outcome		
IT6712.1	Implement the cipher techniques	
IT6712.2	Develop the various security algorithms	

IT6712.3	Use different open source tools for network security and analysis
IT6712.4	Utilize the different open source tools for network security and analysis
IT6712.5	Demonstrate intrusion detection system using network security tool.

Subject Code:	IT6713	Semester:7
Subject Name:	GRID AND CLOUD COMPUTING LAB	
Course Outcome		
IT6713.1	Make use of the Grid Toolkit.	
IT6713.2	Design and Implement new Grid applications Grid.	
IT6713.3	Make use of the Cloud Toolkit.	
IT6713.4	Build cloud applications on Cloud.	
IT6713.5	Construct the applications according to the services.	

Subject Code:	IT6004	Semester:7
Subject Name:	SOFTWARE TESTING	
Course Outcome		
IT6004.1	Design test cases suitable for a software development for different domains.	
IT6004.2	Identify suitable tests to be carried out.	
IT6004.3	Prepare test planning based on the document.	
IT6004.4	Document test plans and test cases designed.	
IT6004.5	Use of automatic testing tools.	

Subject Code:	IT6801	Semester:8
Subject Name:	SERVICE ORIENTED ARCHITECTURE	
Course Outcome		
IT6801.1	Infer the XML schema, name spaces and document structure	
IT6801.2	Build applications based on XML.	
IT6801.3	Outline the service oriented architecture principles and service layers	
IT6801.4	Develop web services using technology elements.	
IT6801.5	Build SOA-based applications for intra-enterprise and inter-enterprise applications.	

Subject Code:	GE6075	Semester:8
Subject Name:	Professional Ethics in Engineering	
Course Outcome		
GE6075.1	Upon completion of the course, the student should be able to apply ethics in society, discuss the ethical issues related to engineering and realize the responsibilities and rights in the society	
GE6075.2	The students will understand the basic perception of profession, professional ethics, various moral & social issues and ethical theories .	
GE6075.3	The students will understand the industrial standards, code of ethics and role of professional ethics in engineering field.	
GE6075.4	The students will aware of professional rights and responsibilities of an engineer, responsibilities of an engineer for safety and risk benefit analysis.	
GE6075.5	The students will acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.	

Subject Code:	CS6004	Semester:8
Subject Name:	CYBER FORENSICS	
Course Outcome		
CS6004.1	• Discuss the security issues network layer and transport layer.	
CS6004.2	• Apply security principles in the application layer	
CS6004.3	• Explain computer forensics.	
CS6004.4	• Use forensics tools.	
CS6004.5	• Analyze and validate forensics data.	

Subject Code:	MG6088	Semester:8
Subject Name:	Software Project Management	
Course Outcome		
MG6088.1	At the end of the course the students will be able to practice Project Management principles while developing a software.	
MG6088.2	classify the various activities of project schdulding and evaluation	
MG6088.3	outline the risk assessment and management process	
MG6088.4	DEMONSTRATE DIFFERENET MODELS OF SOFTWARE PROCESS AND NETWORK PLANNING	
MG6088.5	SUMMARISE ORGANIZATIONAL BEHAVIORS AND MANGEMENT	

Subject Code:	IT6811	Semester:8
Subject Name:	PROJECT WORK	
Course Outcome		
IT6811.1	On Completion of the project work students will be in a position to take up any challenging practical problems and find solution by formulating proper methodology	
IT6811.2	Get knowledge on how to gather requirements from customers so that we can understand the problem in good manner.	
IT6811.3	Get knowledge on all the phases of software development.	
IT6811.4	Students will be in position to analyze more on problem and come to decision what algorithm and methodology should use to get best output.	
IT6811.5	Studens will be industry ready person so that recruitment will be high probability.	