ER.PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE OUTCOMES

REGULATION: 2013

S.NO	COURSE NAME		COURSE OUT COMES
1	C101- Technical English – I (HS6151)	C101.1	Understand the basic grammatical functions and vocabulary.
		C101.2	Speak and write clearly and communicate using appropriate communicative strategies
		C101.3	Write Informal letters /blog/email with a wide range of vocabulary
		C101.4	listen/view and comprehend different spoken discourses and passages in different accents.
		C101.5	Read and write different genres of texts.
2	C102 - Mathematics – I (MA6151)	C102.1	Understand the Concepts of Diagonalization of matrices.
		C102.2	Apply simple techniques for testing the convergence of sequences and series
		C102.3	Use the differentiation concepts to differentiate functions
		C102.4	Apply partial differentiation in functions of several variables.
		C102.5	Apply integration concepts to compute multiple integrals.
3	C103 - Egineering Physics – I (PH6151)	C103.1	Able to classify various crystal structures and its parameters.
		C103.2	Explain the basics of properties of matter, the thermal properties of materials like thermal conductivity and its application.
		C103.3	Acquire knowledge on the concepts of quantum theory and its application in tunneling microscopes.
		C103.4	Understands the basic concepts of Acoustics in buildings and the production of ultrasonic waves and its application in NDT and medical field.
		C103.5	Understands the concept of photonics and its usage in the production of different types of laser and the principle of fibre optics with its application in various fields.
4	C104 - Engineering Chemistry-1 (CY6151)	C104.1	Understand the types of water and water treatment techniques.
		C104.2	Utilize the various adsorbent in industries.
		C104.3	Classify the types of alloys and understand the component present in the alloys.
		C104.4	Explain the types of fuels and manufacturing of secondary fuels.
		C104.5	Illustrate the types of energy resources.

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5	C105 - Computer programming (GE6151)	C105.1	Know the organization of digital Computer
		C105.2	Design C Programs for problems.
		C105.3	Write and execute C programs using Arrays and Strings for simple applications
		C105.4	Usage of Pointers and Function in C programming
		C105.5	Design Programming using Structures and Union
6	C106 - Engineering Graphics (GE6152)	C106.1	Discuss about conics and orthographic views of engineering components
		C106.2	Draw the projection of points, lines and planes
		C106.3	Classify solids and projection of solids at different positions
		C106.4	Show sectioned view of solids and development of surface
		C106.5	Draw isometric projection and perspective views of an object/solid
7	C107 - Computer Practices Laboratory (GE6161)	C107.1	Know about Data Manipulation in MS Office Packages
		C107.2	Apply good programming design methods for program development using Decision making and looping statements.
		C107.3	Design and implement C programs using strings and arrays.
		C107.4	Design and implement C programs using functions and string functions.
		C107.5	Develop recursive functions and develop programs using structures and unions.
8	C108 - Engineering Practices Laboratory (GE6162)	C108.1	Apply the knowledge of pipeline connections to household fittings and industrial buildings.
		C108.2	Prepare the different joints in roofs, doors, windows and furniture.
		C108.3	Perform step turning operation in a lathe.
		C108.4	Perform the various welding processes and know about its applications.
		C108.5	Produce a funnel using sheet metal.
9	C109 - Physics and Chemistry Laboratory - I (GE6163)	C109.1	Understand the concept of Laser and its diffraction for different usage
		C109.2	Able to find the velocity of ultrasonic waves in different liquid.
		C109.3	Apply principle of diffraction to determine the wavelength of visible spectrum.
		C109.4	Understand the various parameter affecting the thermal conductivity of poor conductor
		C109.5	Analyze the various modulus of elasticity of different types of materials.

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10	C110 - Technical English – II (HS6251)	C110.1	Understand basic grammar and know to engage in conversation.
		C110.2	Write and produce different types of technical write ups.
		C110.3	Read and write different genres of technical texts.
		C110.4	Create Job applications and Resume / E - Resume
		C110.5	Express opinions and initiate a discussion using appropriate communicative strategies
11	C111 - Mathematics – II (MA6251)	C111.1	Understand the concepts of Vector Calculus and their applications.
		C111.2	Interpret the Concepts of analytic functions and Conformal mapping.
		C111.3	Understand the integration concepts on Complex integration
		C111.4	Demonstrate the main concepts on Laplace transformations and their applications
		C111.5	Use various techniques in solving differential equations.
12	C112 - Engineering Physics – II (PH6251)	C112.1	Gain knowledge on the conducting materials and its properties
		C112.2	Acquire knowledge on the concepts of carrier concentration in intrinsic and extrinsic semiconductors and its determination using Hall effect.
		C112.3	Classify the different types of magnetic materials and know the properties of superconductors.
		C112.4	Understands the basic concepts of dielectric materials and its usage in capacitors and transformers.
		C112.5	Able to classify the different modern engineering materials and its application in different fields.
13	C113 - Engineering Chemistry – II (CY6251)	C113.1	Illustrate the types of electrochemical cell..
		C113.2	Summarize the types of corrosion and corrosion prevention methods.
		C113.3	Explain the types of fuels and manufacturing of secondary fuels.
		C113.4	Classify the types of alloys and understand the component present in the alloys.
		C113.5	Analyze the sample using various spectroscopy.
14	C114 - Digital Principles and System Design (CS6201)	C114.1	Perform Arithmetic Operations in any number system
		C114.2	Simplify the boolean expression using k-map and tabulation techniques
		C114.3	Use boolean simplification techniques to design a combinational hardware
		C114.4	Design and analyses a digital circuit using combinational and sequential

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	C114 Sy	C114.5	Design reconfigurable digital circuit using PLD
15	C115 - Programming and Data Structures I (IT6212)	C115.1	Use the control structures of C appropriately for problems.
		C115.2	Implement abstract data types for linear data structures.
		C115.3	Apply the different linear data structures to problem solutions.
		C115.4	Critically analyse the various algorithms.
		C115.5	Implement sorting , searching and hash techniques.
16	C116 – Physics and Chemistry Laboratory - II (GE6262)	C116.1	Analyze the various Modulus of materials and fludic property of the the given liquid.
		C116.2	Acquire the practical knowledge about band gap of a semiconductor and Interference ,Diffraction.
		C116.3	Gaining the knowledege of electrochemical redox reaction.
		C116.4	Apply knowledge of measurement of hardness producing ions, alkalinity, conductance,EMF
		C116.5	Understand the impact of water quality and to solve engineering problems.
17	C117 - Digital Laboratory (IT6211)	C117.1	Implement boolean simplification techniques to design a combinational hardware circuit.
		C117.2	Design and implement combinational and sequential circuits.
		C117.3	Analyse a given circuit-combinational and sequential.
		C117.4	Design the different functional units in a digital computer system.
		C117.5	Design and Implement a simple digital system.
18	C118 - Programming and Data Structures Laboratory I (IT6212)	C118.1	Create the C programs by using the basicprograming fundamentals for given application
		C118.2	Design and implement Cprograms application using file handling concepts
		C118.3	Use of data structures concept
		C118.4	Critically analyse the structure usage and application of stacks and queues
		C118.5	Develop a suitable application using sorting searching and hashing techntechniques
	s and Partial ons (MA6351)	C201.1	Apply various techniques in solving the partial differential equations.
		C201.2	Evaluate the Fourier Series using the different methods of integral.

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19	C201 – Transform Differential Equatio	C201.3	Analyze the application of partial differential equations in a large number of engineering subjects like heat conduction and wave equations
		C201.4	Apply integration techniques to formulate the Fourier transforms.
		C201.5	Apply Z - transforms and Difference equations to solve some of the engineering problems.
20	C202 – Programming and Data Structures II (CS6301)	C202.1	Explain the fundamentals of Object Oriented Programming.
		C202.2	Demonstrate the concepts of data abstraction, encapsulation and inheritance.
		C202.3	Outline the concepts of Exception handling and templates.
		C202.4	Summarize about tree preliminaries.
		C202.5	Demonstrate different Non-linear data structures algorithms
21	C203 – Database Management Systems (CS6302)	C203.1	K4 To describe a sound introduction to the discipline of database managementSystems.
		C203.2	To give a good formal foundation on the relational model of data and usage of Relational Algebra.
		C203.3	To introduce the concepts of basic SQL as a universal Database language.
		C203.4	To enhance knowledge to advanced SQL topics like embedded SQL, Procedures connectivity through JDBC.
		C203.5	To demonstrate the principles behind systematic database design approaches By covering conceptual design, logical design through normalization
22	C204 – Computer Architecture (CS6303)	C204.1	Explain the computer organization components, instructions and addressing modes
		C204.2	Demonstrate arithmetic operations
		C204.3	Interpret the basic of MIPS implementation and pipelining
		C204.4	Outline the concept of parallelism and multi-core processor
		C204.5	Classify the memory technologies and I/O systems
23	C205 – Analog and Digital Communication (CS6304)	C205.1	Understand the concepts of noise, modulation techniques of analog communication.
		C205.2	Discuss digital communication techniques ASK, FSK, PSK and QPSK.
		C205.3	Explain the data and pulse communication techniques, error detection and correction codes.
		C205.4	Analysethe performance of source and error control codes using theorems.
		C205.5	Understand the significance and role of the course in present contemporary world.
		C206.1	Understand the types, characteristics of Ecosystem & Biodiversity.

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24	C206– Environment Science and Engineer (GE6351)	C206.2	Understand the types of pollution &its causes.
		C206.3	Understand the importance of Natural Resources.
		C206.4	Understand the Environmental problems.
		C206.5	Explain the importance of women, child education and HIV /AIDS.
25	C207 – Programming and Data Structures Laboratory II (IT6311)	C207.1	Select good programming design methods for program development.
		C207.2	Develop C++ programs for object oriented concepts.
		C207.3	Develop C++ programs for handling exceptions.
		C207.4	Develop C++ programs for practical problems using non-linear data structures.
		C207.5	Develop C++ programs for practical problems using non-linear data structures.
26	C208 – Database Management Systems Laboratory (IT6312)	C208.1	Understand the basic key concept of table creation
		C208.2	To Design and implement a database schema for a given problem-domain
		C208.3	To Create and maintain tables using PL/SQL
		C208.4	Create report for computer application
		C208.5	Application development using PL/SQL & front end tools
27	C209 – Digital Communication Laboratory (IT6313)	C209.1	Design the types various continuous and discrete signals.
		C209.2	Design and verify varius modulation& demodulation circuits.
		C209.3	Demonstrate band pass and baseband digital signaling schemes through simulation of FSK, PSK, QPSK, QAM and DPSK.
		C209.4	Apply various channel coding schemes and demonstrate their capabilities towards the improvement of noise performance of communication system.
		C209.5	Simulate and validate the various functional modules of a communication system.
28	C210 – Probability and Queuing Theory (MA6453)	C210.1	Understand the fundamental knowledge of the Probability and distributions.
		C210.2	Understand the basic concepts of one and two dimensional random variables.
		C210.3	Understand the concept of Markov chain in terms of a transition probability matrix and transition diagram.
		C210.4	Interpret the Concepts of Queuing models.
		C210.5	Apply non Markovian queues to open and closed networks.
29	Microprocessor crocontroller C6504)	C211.1	Understand the architecture of 8086 microprocessor.
		C211.2	Understand the bus structure of 8086 and execute programs based on 8086.
		C211.3	Construct memory interfacing circuits.

S.NO	COURSE NAME	COURSE OUT COMES	
	C211 – M... and Mi... (E...	C211.4	Develop 8051 microcontroller based systems
		C211.5	Analyze IO interfacing circuits based on 8051 microcontroller.
30	C212 – Design and Analysis of Algorithms (CS6402)	C212.1	Interpret the fundamentals of algorithms in problem solving.
		C212.2	Classify the different algorithm design techniques for problem solving.
		C212.3	Develop algorithms for various computing problems.
		C212.4	Analyze the time and space complexity of various algorithms.
		C212.5	Identify the limitations of algorithms in problem solving.
31	C213 – Operating Systems (CS6401)	C213.1	Explain the basic concepts and functions of Operating Systems.
		C213.2	Outline various threading models, process synchronization deadlocks and CPU scheduling algorithms.
		C213.3	Compare and contrast various memory management schemes.
		C213.4	Explain I/O management and file systems
		C213.5	Explain administrative tasks on Linux Servers and Distinguish iOS and Android OS.
32	C214 – Software Engineering (CS6403)	C214.1	Explain the software engineering process and project management.
		C214.2	Demonstrate software requirements and analysis.
		C214.3	Outline the software design process and user interface
		C214.4	Compare and contrast various software testing
		C214.5	Discuss about the software integration and project management.
33	C215 – Microprocessor and Microcontroller Laboratory (IT6411)	C215.1	Demonstrate and apply working of programs in 8086 microprocessor and 8051 microcontroller.
		C215.2	Explain various assembly language programs.
		C215.3	Develop the basic knowledge of microprocessor and microcontroller interfacing and their application.
		C215.4	Design the system using capabilities of stack program counter and status register and show how these are used to execute a machine code program.
		C215.5	Execute arithmetic, logical operations, unpacked BCD to ASCII using 8051.
34	C216 – Operating Systems Laboratory (IT6412)	C216.1	Experiment with Unix commands and shell programming.
		C216.2	Build 'C' program for process and file system management using system calls.
		C216.3	Choose the best CPU scheduling algorithm for a given problem instance.
		C216.4	Identify the performance of various page replacement algorithms.
		C216.5	Develop algorithm for deadlock avoidance, detection and file allocation strategies.

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35	C217 – Software Engineering Laboratory (IT6413)	C217.1	Design and implement complex software solutions using state of the art software engineering techniques.
		C217.2	Work with knowledge of UML, source control, and project management.
		C217.3	Test and document the software.
		C217.4	Develop significant projects given deadline.
		C217.5	Present their work in a professional manner.
36	C301 – Computer Networks (CS6551)	C301.1	Understand the basic layers and its functions in computer networks.
		C301.2	Evaluate the performance of a network.
		C301.3	Understand the basics of how data flows from one node to another.
		C301.4	Analyze and design routing algorithms
		C301.5	Design protocols for various functions in the network.
37	C302- Graphics and Multimedia (IT6501)	C302.1	Apply algorithms to draw 2D objects and to implement 2D geometric transformations.
		C302.2	Describe Projection concepts, Visibility Detection and animation techniques.
		C302.3	Explain the concepts of multimedia, multimedia architecture and multimedia databases.
		C302.4	Examine Compression & Decompression techniques, File format and Storage and retrieval technologies.
		C302.5	Discuss about hypermedia messaging standards & Distributed Multimedia Systems.
38	C303 - Object Oriented Analysis and Design (CS6502)	C303.1	Explain OOAD concepts and use case modeling.
		C303.2	Select an appropriate design pattern
		C303.3	Illustrate about domain models and conceptual classes.
		C303.4	Demonstrate the various UML Diagrams.
		C303.5	Create code from design and Comparevarious testing techniques.
39	C304- Digital Signal Processing (IT6502)	C304.1	Classify the Discrete signals and systems and understand its characteristics.
		C304.2	Apply the properties of Fourier and Z-transforms to estimate thesystem response.
		C304.3	Formulate and construct IIR filtering in digital domain.
		C304.4	Construct FIR filter in digital domain.
		C304.5	Explain thefinite wordlength effectsin Digital filters.
	...eb (IT6503)	C305.1	Understand the technologies used in web programming to design web pages.
		C305.2	Learn to apply the object oriented aspects of scripting

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40	C305- Web Programming	C305.3	Create database with connectivity using JDBC
		C305.4	To Build web based application using Socket
		C305.5	To build application on XML and web services.
41	C306- Wireless Communication (EC6801)	C306.1	Understand the characteristics of wireless channels and fading concepts.
		C306.2	Understand and implement various multiple access techniques and cellular architecture.
		C306.3	Design and implement different signaling schemes for fading channels.
		C306.4	Analyze the performance of various multipath mitigation techniques.
		C306.5	Implement system with transmit/receive diversity and MIMO systems
42	C307 - Networks Laboratory (IT6511)	C307.1	Identify the different types of network topologies and protocols
		C307.2	Identify the different types of network devices and their functions within a network
		C307.3	Familiarity with the basic protocols of computer networks, and evaluates how they can be used to assist in network design and implementation.
		C307.4	Understand the concepts of routing mechanisms , network interfaces, and design/performance issues in local area networks and wide area networks
		C307.5	To improve the design by applying appropriate design patterns.
43	C308- Web Programming Laboratory (IT6512)	C308.1	Design web pages using HTML/DHTML and style sheets
		C308.2	Design a web page based on HTML tags and CSS properties with script functionalities
		C308.3	Design and implement database applications.
		C308.4	Create dynamic web pages using server side scripting
		C308.5	Learn to write PHP Database function.
44	C309 - Case Tools Laboratory (IT6513)	C309.1	Outline the problem statement for a given problem.
		C309.2	Construct USE CASE model to identify the classes and functionality of the system.
		C309.3	Show the objects interaction for all the system functionality
		C309.4	Develop code from system design.
		C309.5	Examine the developed code using testing strategies.
45	C310- Distributed Systems (CS6601)	C310.1	Explain the distributed systems architecture.
		C310.2	Outline the inter process communication in distributed systems.
		C310.3	Explain the file accessing model and various services in distributed system.
		C310.4	Demonstrate concurrency control and properties of transaction in Distributed systems.
		C310.5	Discuss resource and process management in distributed system.

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46	C311 - Mobile Computing (IT6601)	C311.1	understand the basic of mobile telecommunication system
		C311.2	Choose the required functionality at each layer of give application
		C311.3	Identify solution for each functionality at each layer
		C311.4	Use simulator tools and design Ad hoc networks
		C311.5	develop mobile application based on mobile platform
47	C312 - Artificial Intelligence (CS6659)	C312.1	Exhibit strong familiarity with a number of important AI techniques, including in particular search, knowledge representation, and planning and constraint management.
		C312.2	Recognize appropriate AI methods to solve a given problem.
		C312.3	Discuss a given problem in the language/framework of different AI methods.
		C312.4	Assess critically the techniques presented and apply them to real world problems
		C312.5	Model an empirical evaluation of different algorithms on problem formalization, and state the conclusions that the evaluation supports.
48	C313- Compiler Design (CS6660)	C313.1	Explain the phases of a Compiler.
		C313.2	Illustrate the translation of regular expression into parse tree using syntax analyzer
		C313.3	Construct the intermediate representation considering the type systems
		C313.4	Apply the optimization techniques for the generated code.
		C313.5	Use the different compiler construction tools to develop a simple compiler.
49	C314- Software Architectures (IT6602)	C314.1	Identify the key elements of software Architecture.
		C314.2	Understand the six part scenarios of quality attributes.
		C314.3	Understand the concepts of Architectural Views
		C314.4	Compare various Architectural styles.
		C314.5	Explain the various documentation approaches and architectural description languages.
50	C315- Total Quality Management (GE6757)	C315.1	Outline the dimensions and barriers regarding with Quality.
		C315.2	Illustrate the TQM Principles and quality strategies
		C315.3	Demonstrate Tools utilization for quality improvement and quality concepts
		C315.4	Illustrate the various quality concepts and techniques used to measure Quality.
		C315.5	Apply various Quality Systems and auditing on implementation of TQM.
51	le Application nt Laboratory 6611)	C316.1	Develop mobile applications using GUI and Layouts.
		C316.2	Develop mobile applications using Event Listener.
		C316.3	Develop mobile applications using Databases.

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	C316- Mobile Development (IT...)	C316.4	Develop mobile applications using RSS Feed, Internal/External Storage, SMS, Multithreading and GPS.	
		C316.5	Analyze and discover own mobile app for simple needs.	
52	C317- Compiler Laboratory (IT6612)	C317.1	Apply different compiler writing tools to implement the different Phases.	
		C317.2	Analyze the data flow and control flow.	
		C317.3	Construct the intermediate representation.	
		C317.4	Design the back end of a compiler for 8086 assembler.	
		C317.5	Compare various code optimization techniques.	
53	C318-Communication and Soft Skills - Laboratory Based (GE6674)	C318.1	Ability to express technology enabled communication	
		C318.2	Analyze, distinguish and prepare their own resume and reports	
		C318.3	Take international examination such as IELTS and TOEFL	
		C318.4	Ability to handle time management and organizational skills.	
		C318.5	Utilizing the soft skill in the social and work environment successfully.	
54	C401 - Information Management (IT6701)	C401.1	Outline the various aspects of database design and modeling.	
		C401.2	Describe and implement a complex information system that meets regulatory requirements.	
		C401.3	Explain and manage an organization's key master data entities.	
		C401.4	Understand the various components of Information architecture.	
		C401.5	Learn the concepts of Information Lifecycle management.	
55	C402- Cryptography and Network Security (CS6701)	C402.1	Compare various Cryptographic Techniques	
		C402.2	Understand Secure applications in various techniques.	
		C403.3	Understand secure coding in the developed applications	
		C404.4	Understandthe secure practice and system security by using firewalls.	
		C405.5	Apply the protocols for E-mail, IP & web security.	
56	C403- Data Ware Housing and Data Mining (IT6702)	C403.1	Outline data ware concepts and architecture.	
		C403.2	Summarize the various OLAP types	
		C403.3	Explain the data mining techniques.	
		C403.4	Make use of tool for association rule mining and classification.	
		C403.5	Compare the clustering methods.	
	d Cloud (CS6703)	C404.1	Outline the concept of Grid and Cloud Architectures.	
		C404.2	Illustrate the data intensive grid service models and grid computing techniques	

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57	C404- Grid and Computing (	C404.3	Demonstrate the concept of virtualization in cloud.
		C404.4	Experiment with the programming model for Hadoop and globus toolkit.
		C404.5	Interpret the security models in the grid and cloud environment.
58	C405- Software Testing (IT6004)	C405.1	Understand the criteria for test cases.
		C405.2	Learn the design of test cases
		C405.3	Learn the hierarchy of test management
		C405.4	Understand the knowledge about test automation techniques
		C405.5	Understand the test metrics and measurement.
59	C406- Data Mining Laboratory (IT6711)	C406.1	Create a Data Warehouse
		C406.2	Use data mining tools.
		C406.3	Implement Clustering methods
		C406.4	Apply of Classification
		C406.5	Apply data mining techniques and methods to large data sets.
60	C407- Security Laboratory (IT6712)	C407.1	Explain the different cipher techniques.
		C407.2	Implement the algorithms DES, RSA, MD5, and SHA-1.
		C407.3	Use tools like GnuPG, KF sensor, Net Strumbler.
		C407.4	Demonstrate how to provide secure data storage,secure data transmission and for creating digital signatures.
		C407.5	Employ intrusion detection system using tools.
61	C408- Grid and Cloud Computing Laboratory (IT6713)	C408.1	Understand to developing web services/Applications in grid framework.
		C408.2	Develop secured applications using basic security mechanisms.
		C408.3	Learn to run virtual machines of different configuration.
		C408.4	Understand the Use of API's of Hadoop to interact with cluster.
		C408.5	Understand the use of Map and Reduce tasks
62	C409- Service Oriented Architecture (IT6801)	C409.1	Understand the basics of XML
		C409.2	Design the application based on XML
		C409.3	Understand the key principles behind SOA
		C409.4	Develop Web services using technology elements
		C409.5	Construct SOA based application for intra enterprise and inter enterprise application

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63	C410- Professional Ethics in Engineering (GE6075)	C410.1	Acquires the basic concepts of Professional ethics and human values & Students also gain the connotations of ethical theories.
		C410.2	Knows the duties and rights towards the society in an engineering profession
		C410.3	Would realize the importance and necessity of intellectual property rights.
		C410.4	Can take all the necessary precautions while conducting the experiments, which may reduce the risk.
		C410.5	Understands the importance of risk evacuation system in reality and takes the utmost responsibility while handling the risky situations.
64	C411- Cyber Forensics (CS6004)	C411.1	Discuss the security issues network layer and transport layer
		C411.2	Apply security principles in the application layer
		C411.3	Explain computer forensics
		C411.4	Use forensics tools
		C411.5	Analyze and validate forensics data
65	C412- Software Project Management (MG6088)	C412.1	Explain the need for Software Project Management and control.
		C412.2	apply cost benefit evaluation techniques to find the cost of the project and to evaluate the risk of project
		C412.3	Illustrate activity plan for a project and to estimate the overall duration of the project.
		C412.4	Demonstrate different models of software process and network planning.
		C412.5	Identify the factors that influence people's behavior in a project environment and selection of appropriate people for the project and to improve group working.
66	C413- Project Work (IT6811)	C413.1	Identify the problem by applying acquired knowledge.
		C413.2	Analyze and categorize executable project modules after considering risks.
		C413.3	Choose efficient tools for designing project modules.
		C413.4	Combine all the modules through effective team work after efficient testing.
		C413.5	Elaborate the completed task and compile the project report.