

## COURSE OUTCOMES

REGULATION: 2013

S.NO	COURSE NAME	COURSE OUT COMES	
1	C101 - Mathematical Foundations For Computer Applications (MA7151)	C101.1	Acquire the basic knowledge of matrix, set theory, functions and relations concepts needed for designing and solving problems
		C101.2	Acquire the knowledge of logical operations and predicate calculus needed for computing skill
		C101.3	Able to design and solve Boolean functions for defined problem.
		C101.4	Apply the acquired knowledge of formal languages to the engineering areas like Compiler Design.
		C101.5	Apply the acquired knowledge of finite automata theory and design discrete problems to solve by computers.
2	C102 - Computer Organization (MC7101)	C102.1	Able to design digital circuits by simplifying the Boolean functions
		C102.2	Able to Understand the organization and working principle of computer hardware components
		C102.3	Able to understand mapping between virtual and physical memory
		C102.4	Acquire knowledge about multiprocessor organization and parallel processing
		C102.5	Able to trace the execution sequence of an instruction through the processor
3	C103 - Problem Solving And Programming (MC7102)	C103.1	Able to design a computational solution for a given problem.
		C103.2	Able to break a problem into logical modules that can be solved (programmed).
		C103.3	Able to transform a problem solution into programs involving programming constructs
		C103.4	To write programs using structures, strings, arrays, pointers and files for solving complex computational problem.
		C103.5	Able to introduce modularity using functions and pointers which permit ad hoc run-time polymorphism
4	C104 - Database Management Systems (MC7103)	C104.1	Understand the basic concepts of the database and data models.
		C104.2	design a database using ER diagrams and map ER into Relations and normalize the relations
		C104.3	Acquire the knowledge of query evaluation to monitor the performance of the DBMS.
		C104.4	Develop a simple database applications using normalization.
		C104.5	Acquire the knowledge about different special purpose databases and to critique how they differ from traditional database systems.

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5	C105 - Data structures and algorithms (MC7104)	C105.1	Able to select and apply the data structure to suit any given problem.
		C105.2	Able to design their own data structure according to the application need.
		C105.3	Able to apply the algorithm design techniques to any of the real world problem.
		C105.4	Able to develop any new application with the help of data structures and algorithms.
		C105.5	Able to write efficient algorithm for a given problem and able to analyze its time complexity.
6	C106 - Object Oriented Programming (MC7201)	C106.1	Able to understand and design the solution to a problem using object-oriented programming concepts.
		C106.2	Able to use proper class protection mechanism to provide security.
		C106.3	Able to demonstrate the use of virtual functions to implement polymorphism.
		C106.4	Understand and implement the features of C++ including templates, exceptions and file handling for providing programmed solutions to complex problems
		C106.5	Able to reuse the code with extensible Class types, User-defined operators and function overloading
7	C107 - Web Programming Essentials (MC7202)	C107.1	Acquire knowledge about functionalities of world wide web
		C107.2	Explore markup languages features and create interactive web pages using them
		C107.3	Learn and design Client side validation using scripting languages
		C107.4	Acquire knowledge about Open source JavaScript libraries
		C107.5	Able to design front end web page and connect to the back end databases.
8	C108 - System Software (MC7203)	C108.1	Able to trace the path of a source code to object code and the to executable file.
		C108.2	To design the front end of the compiler-scanner, parser
		C108.3	Understand and identify the relationship between system software and machine architecture
		C108.4	Analyze the functions of assembler, compiler, linker, and loaders
		C108.5	Know the design and implementation of loaders and linkers
9	Operating Systems (MC7204)	C109.1	Able to understand the operating system components and its services
		C109.2	Implement the algorithms in process management and solving the issues of IPC
		C109.3	Able to demonstrate the mapping between the physical memory and virtual memory

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	C109 - Operating Systems (MC7204)	C109.4	Able to understand file handling concepts in OS perspective
		C109.5	Able to understand the operating system components and services with the recent OS
10	C110 - Computer Graphics And Multimedia (MC7205)	C110.1	Gain proficiency in 3D computer graphics API programming
		C110.2	Enhance the perspective of modern computer system with modeling, analysis and interpretation of 2D and 3D visual information.
		C110.3	Able to understand different realizations of multimedia tools
		C110.4	Able to develop interactive animations using multimedia tools
		C110.5	Gain the knowledge of different media streams in multimedia transmission
11	C 201 - Computer Networks (MC7301)	C201.1	Able to trace the flow of information from one node to another node in the network
		C201.2	Able to Identify the components required to build different types of networkS
		C201.3	Able to understand the functionalities needed for data communication into layers
		C201.4	Able to choose the required functionality at each layer for given application
		C201.5	Able to understand the working principles of various application protocols
		C201.6	Acquire knowledge about security issues and services available
12	C202 - Embedded Systems (MC7302)	C202.1	Able to understand the functionality of 8085 microprocessor
		C202.2	Able to design and control real time control systems
		C202.3	Able incorporate enhanced features in the embedded systems through software
		C202.4	Able to rectify minor problems by troubleshooting
		C202.5	Acquire the knowledge of real time operating system and implement real time functions
13	C203- Software Engineering (MC7303)	C203.1	Get an insight into the processes of software development
		C203.2	Able to understand the problem domain for developing SRS and various models of software engineering
		C203.3	Able to Model software projects into high level design using DFD,UML diagramS
		C203.4	Able to Measure the product and process performance using various metrics
		C203.5	Able to Evaluate the system with various testing techniques and strategieS
	C204 - Professional Ethics (MC7304)	C204.1	Helps to examine situations and to internalize the need for applying ethical principles, values to tackle with various situations.
		C204.2	Develop a responsible attitude towards the use of computer as well as the technology.

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14	C204 - Professional (MC7304)	C204.3	Able to envision the societal impact on the products/ projects they develop in their career.
		C204.4	Understanding the code of ethics and standards of computer professionals.
		C204.5	Analyze the professional responsibility and empowering access to information in the work place .
15	C205 - Internet Programming (MC 7305)	C205.1	Able to understand the internet standards and recent web technologies like Conferencing, newsgroup etc.
		C205.2	Able to implement, compile, test and run Java program,
		C205.3	Able to make use of hierarchy of Java classes to provide a solution to a given set of requirements found in the Java API
		C205.4	Able to understand the components and patterns that constitute a suitable architecture for a web application using java servletS
		C205.5	Able to demonstrate systematic knowledge of backend and front end by developing an appropriate application
16	C206 - Object Oriented Analysis And Design (MC7402)	C206.1	Understand the basic concepts to identify state & behavior of real world objects
		C206.2	Able to learn the various object oriented methodologies and choose the appropriate one for solving the problem with the help of various case studies
		C206.3	Understand the concept of analysis, design & testing to develop a document for the project
		C206.4	Able to implement analysis, design & testing phases in developing a software project
		C206.5	Able to understand the testing strategies and know about automated testing tools
17	C207 - Data Warehousing And Data Mining (MC7403)	C207.1	Store voluminous data for online processing
		C207.2	Preprocess the data for mining applicationS
		C207.3	Apply the association rules for mining the data
		C207.4	Design and deploy appropriate classification techniques
		C207.5	Cluster the high dimensional data for better organization of the data
		C207.6	Discover the knowledge imbibed in the high dimensional system
		C207.7	Evolve Multidimensional Intelligent model from typical system
		C207.8	Evaluate various mining techniques on complex data objects circuits
18	08 - Network programming (MC7404)	C208.1	To write socket API based programs.
		C208.2	To design and implement client-server applications using TCP and UDP sockets

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	C2 P1	C208.3	To analyze network programs
19	C209 - Security In Computing (MC7005)	C209.1	Apply cryptographic algorithms for encrypting and decryption for secure data transmission
		C209.2	Understand the importance of Digital signature for secure e-documents exchange
		C209.3	Understand the program threats and apply good programming practice
		C209.4	Get the knowledge about the security services available for internet and web applications.
		C209.5	Understand data vulnerability and sql injection Gain the knowledge of security models and published standards
		C209.6	Explore the features of various platforms and frameworks used in web applications development.
20	C301 - Resource Management Techniques (MC7401)	C301.1	To provide the concept and an understanding of basic concepts in Operations Research Techniques for Analysis and Modeling in Computer Applications.
		C301.2	To understand , develop and solve mathematical model of linear programming problems
		C301.3	To understand , develop and solve mathematical model of Transport and assignment problems
		C301.4	To Understand network modeling for planning and scheduling the project activities
21	C302 - Service Oriented Architecture (MC7502)	C302.1	Known about the basic principles of service oriented architecture , its components and techniques
		C302.2	Understand the architecture of web services
		C302.3	Able to design and develop web services using protocol
		C302.4	Technology underlying the service design
22	C303 - Mobile Computing (MC7503)	C303.1	Gain the knowledge about various types of Wireless Data Networks and Wireless Voice Networks.
		C303.2	Understand the architectures, the challenges and the Solutions of Wireless Communication those are in use.
		C303.3	Realize the role of Wireless Protocols in shaping the future Internet.
		C303.4	know about different types of Wireless Communication Networks and their functionalities
		C303.5	Able to develop simple Mobile Application Using Android
23	g Data Analytics (MC7011)	C304.1	Work with big data platform
		C304.2	Analyze the big data analytic techniques for useful business applications.
		C304.3	Design efficient algorithms for mining the data from large volumes.

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	C304 - Big Data Analytics (N)	C304.4	Analyze the HADOOP and Map Reduce technologies associated with big data analytics
		C304.5	Explore on Big Data applications Using Pig and Hive Understand the fundamentals of various bigdata analysis techniques.
24	C305 - Software Project Management (MC7015)	C305.1	Understand the activities during the project scheduling of any software application.
		C305.2	Learn the risk management activities and the resource allocation for the projects.
		C305.3	Can apply the software estimation and recent quality standards for evaluation of the software projects
		C305.4	Acquire knowledge and skills needed for the construction of highly reliable software project
		C305.5	Able to create reliable, replicable cost estimation that links to the requirements of project planning and managing
25	C306 - Project Work	C306.1	Understand the problem statement in a various domain
		C306.2	Identify the problem and do the literature survey
		C306.3	Design a module for solving a problem in the respective area.
		C306.4	Implement a module for solving a problem identified.
		C306.5	Evaluate the module results and make improvements.