



RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS::ONGOLE

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NH-16, Valluru,-523272, Ongole, Prakasam District, A.P

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

COURSE OUTCOMES (2020-21)

I SEMESTER

CO No.	Subject: Business Communication	Taxonomy Level
After completing the course the student shall be able to		
MC1101.1	Effective Business Communications	Understanding
MC1101.2	Effective business writing Effective business communications Research approaches and information collection Developing and delivering effective presentations Effective interpersonal communications	Applying
MC1101.3	Good time management	Applying
MC1101.4	Effective problem solving	Applying
MC1101.5	Skills that maximize team effectiveness	Applying

CO No.	Subject: Mathematical And Statistical Foundations	Taxonomy Level
After completing the course the student shall be able to		
MC1102.1	Apply the basic rules and theorems of probability theory such as Baye's Theorem, determine probabilities that help to solve engineering problems and to determine the expectation and variance of a random variable from its distribution.	Understanding
MC1102.2	Able to perform and analyze of sampling, means, proportions, variances and estimates the maximum likelihood based on population parameters.	Applying
MC1102.3	Learn how to formulate and test hypotheses about sample means, variances and proportions and to draw conclusions based on the results of statistical tests.	Applying
MC1102.4	Design various ciphers using number theory. .	Applying
MC1102.5	Apply graph theory for real time problems like network routing problem.	Analyzing

CO No.	Subject: Computer Organization & Operating Systems	Taxonomy Level
After completing the course the student shall be able to		





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MC1103.1	Understand the basic organization of computer and different instruction formats and addressing modes	Understanding
MC1103.2	Analyze the concept of pipelining, segment registers and pin diagram of CPU.	Applying
MC1103.3	Understand and analyze various issues related to memory hierarchy	Applying
MC1103.4	Evaluate various modes of data transfer between CPU and I/O devices	Applying
MC1103.5	Examine various inter connection structures of multi processors	Analyzing

CO No.	Subject: Data Structures	Taxonomy Level
After completing the course the student shall be able to		
MC1104.1	Implement basic programs by using C concepts.	Understanding
MC1104.2	Select the data structures that efficiently model the information in a problem	Applying
MC1104.3	Assess efficiency trade-offs among different data structure implementations or combinations	Applying
MC1104.4	Implement and know the application of algorithms for sorting and pattern matching.	Applying
MC1104.5	Implement application of algorithms for sorting and pattern matching.	Analyzing

CO No.	Subject: Object Oriented Programming With Java	Taxonomy Level
After completing the course the student shall be able to		
MC1105.1	Describe the uses OOP concepts	Understanding
MC1105.2	Apply OOP concepts to solve real world problems	Applying
MC1105.3	Distinguish the concept of packages and interfaces	Applying
MC1105.4	Demonstrate the exception handling, multithread applications with synchronization	Applying
MC1105.5	Design the GUI based applications using AWT and Swings Discuss the Collection Framework	Analyzing





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CO No.	Subject: Operating Systems And Linux Lab	Taxonomy Level
After completing the course the student shall be able to		
MC1106.1	Implement various CPU scheduling algorithms and compare results	Applying
MC1106.2	Implement various disk scheduling algorithms and compare results	Applying
MC1106.3	Implement various memory management techniques.	Applying
MC1106.4	Implement various memory management techniques.	Applying
MC1106.5	Execute basic Linux commands	Analyzing

CO No.	Subject: STATISTICAL PROGRAMMING WITH R LAB	Taxonomy Level
After completing the course the student shall be able to		
MC1107.1	Implement various basic data structures and its operations.	Applying
MC1107.1	Apply sorting and searching algorithms to given numbers	Applying
MC1107.1	Implement various tree operations.	Applying
MC1107.1	Implement various graphs algorithms	Applying
MC1107.1	Develop applications using various data structures.	Analyzing

CO No.	Subject: Java Programming Lab	Taxonomy Level
After completing the course the student shall be able to		
MC1108.1	Apply OOP concepts to solve real world problems	Applying
MC1108.2	Implement different forms of inheritance	Applying
MC1108.3	Create packages and to reuse them.	Applying
MC1108.4	Implement multi threaded programs using synchronization concepts Create user defined exceptions	Applying





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MC1108.5	Design GUI applications using AWT and SWINGS.	Analyzing
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II SEMESTER

CO No.	Subject: Database Management Systems	Taxonomy Level
After completing the course, the student shall be able to		
MC2101.1	Illustrate the concept of databases, database management systems, database languages, database structures and their work	Understanding
MC2101.2	Apply ER modeling and Relational modeling for designing simple databases.	Applying
MC2101.3	Summarize the concepts related to relational model and SQL and Write database queries using relational algebra and structured query language.	Applying
MC2101.4	Design and develop databases from the real world by applying the concepts of Normalization.	Applying
MC2101.5	Outline the issues associated with Transaction Management and Recovery, Tree Structured and Hash-Based Indexing	Analyzing

CO No.	Subject: COMPUTER NETWORKS	Taxonomy Level
After completing the course the student shall be able to		
MC2102.1	Explain the network architecture, TCP/IP and OSI reference models	Applying
MC2102.2	Identify and understand various techniques and modes of transmission	Applying
MC2102.3	Demonstrate the data link protocols, multi-channel access protocols and IEEE 802 standards for LAN	Applying
MC2102.4	Describe routing and congestion in network layer with routing algorithms and classify IPV4 addressing scheme	Applying
MC2102.5	Discuss the elements and protocols of transport layer , Develop network security and define various protocols such as FTP, HTTP, Telnet, DNS	Analyzing

CO No.	Subject: SOFTWARE ENGINEERING AND DESIGN PATTERNS	Taxonomy Level
After completing the course the student shall be able to		
MC2103.1	Define various software application domains and remember different process model used in software development.	Applying





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MC2103.2	Explain needs for software specifications also they can classify different types of software requirements and their gathering techniques	Applying
MC2103.3	Convert the requirements model into the design model and demonstrate use of software and user interface design principles.	Applying
MC2103.4	Illustrate the appropriate design patterns to solve object-oriented design problems.	Applying
MC2103.5	Evaluate the design solutions by using behavioral patterns.	Analyzing

CO No.	Subject: DATA WAREHOUSING AND MINING	Taxonomy Level
After completing the course the student shall be able to		
MC2104.1	Understand the basics of types of data, quality of data, suitable techniques required for preprocessing and measures required to perform data analysis	Understanding
MC2104.2	Describe the need of classification, identify suitable technique(s) to perform classification, model building and evaluation	Applying
MC2104.3	Identify the requirements and usage of association rule mining on categorical and continuous data.	Applying
MC2104.4	Compare and Identify suitable clustering algorithm(s) (apply with open source tools), interpret, evaluate and report the result	Applying
MC2104.5	Describe the requirements and the need of web mining	Analyzing

CO No.	Subject: DESIGN AND ANALYSIS OF ALGORITHMS	Taxonomy Level
After completing the course the student shall be able to		
MC2105.1	Describe asymptotic notation used for denoting performance of algorithms	Applying
MC2105.2	Analyze the performance of a given algorithm and denote its time complexity using the asymptotic notation for recursive and non-recursive algorithms	Applying
MC2105.3	List and describe various algorithmic approaches	Applying
MC2105.4	Solve problems using divide and conquer, greedy, dynamic programming, backtracking and branch and bound algorithmic approaches	Applying
MC2105.5	Apply graph search algorithms to real world problems, Demonstrate an understanding of NP- Completeness theory and lower bound theory	Analyzing





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CO No.	Subject: DBMS LAB	Taxonomy Level
After completing the course the student shall be able to		
MC2106.1	Utilize SQL to execute queries for creating database and performing data manipulation operations	Applying
MC2106.2	Examine integrity constraints to build efficient databases	Applying
MC2106.3	Apply Queries using Advanced Concepts of SQL .	Applying
MC2106.4	Build PL/SQL programs including stored procedures, functions, cursors and triggers	Applying

CO No.	Subject: COMPUTER NETWORKS LAB	Taxonomy Level
After completing the course the student shall be able to		
MC2107.1	Implement shell script for basic file operations	Applying
MC2107.2	Implement shell script for file management operations	Applying
MC2107.3	Implement shell script for file handling work	Applying
MC2107.4	Implement shell script for basic mathematical programming	Applying
MC2107.5	Implement shell script for copy file & count words and line in a file	Analyzing

CO No.	Subject: Software Engineering And Design Patterns Lab	Taxonomy Level
After completing the course the student shall be able to		
MC2108.1	Plan a s/w engg process lifecycle including specification design, implementation and testing of s/w systems	Applying
MC2108.2	Able to elicit,analyze,and specify s/w requirements through a productive working relationships, with various stake holders of the project	Analyzing
MC2108.3	Analyze and translate a specification into a design and the realize the design practically	Applying
MC2108.4	Now how to develop the code from the design and effectively apply relevant standers and perform testing and quality management and practice	Applying





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MC108.5	Able to use modern engg tolls necessary for s/w project management time management and s/w reuse	Analyzing
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CO No.	Subject: Employability Skills	Taxonomy Level
After completing the course the student shall be able to		
MC2109.1	Recite the soft skills	Applying
MC2109.2	Make presentations effectively with appropriate body language	Applying
MC2109.3	Be composed with positive attitude	Applying
MC2109.4	Apply their core competencies to succeed in professional and personal life	Applying

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COURSE OUTCOMES (2020-21)

III SEMESTER

CO No.	Subject: DATA BASE MANAGEMENT SYSTEMS	Taxonomy Level
After completing the course the student shall be able to		
MC 1631.1	Demonstrate Data Base with different applications of DBMS. Identifies the entity, attributes, Relationships and keys in various Data Models.	Understanding
MC 1631.2	Utilize relational algebra concepts like selection ,projection ,relational calculus which helps in understanding queries	Applying
MC 1631.3	Experiment ddl, dml cmds ect, by writing queries in standard language of relational databases..	Applying
MC 1631.4	Develop various advance SQL queries related to Transaction Processing & Locking using concept of Concurrency control.	Applying
MC 1631.5	Analyze indexing mechanisms for efficient retrieval of information from a database.	Analyzing

CO No.	Subject: COMPUTER COMMUNICATION	Taxonomy Level
After completing the course the student shall be able to		
MC 1632.1	Outline the basic concepts of reference models and Identify the functionality of physical layer in computer communications	Understanding
MC 1632.2	Explian various physical layer trasmission techniques, Examine the datalink layer design issues	Applying
MC 1632.3	list various data link access methods and network layer functions	Applying
MC 1632.4	outline the IEEE 802.11 standard	Applying
MC 1632.5	Examine various application layer functionalities	Analyzing





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CO No.	Subject: UNIX PROGRAMMING	Taxonomy Level
After completing the course the student shall be able to		
MC 1633.1	Understand commands & File System and Permissions of UNIX	Understanding
MC 1633.2	Understand the basic syntax for command line used in UNIX	Applying
MC 1633.3	Understand the different filters and awk used in UNIX	Applying
MC 1633.4	Shell Programming basics and IPC	Applying
MC 1633.5	Understand the basic process commands in UNIX.	Analyzing

CO No.	Subject: MANAGEMENT INFORMATION SYSTEMS	Taxonomy Level
After completing the course the student shall be able to		
MC 1634.1	Relate the basic concepts and technologies used in the field of management information systems	Understanding
MC 1634.2	Compare the processes of developing and implementing information systems.	Applying
MC 1634.3	Outline the role of the ethical, social, and security issues of information systems	Applying
MC 1634.4	Translate the role of information systems in organizations, the strategic management processes, with the implications for the management	Applying
MC 1634.5	Apply the understanding of how various information systems like work together to accomplish the information objectives of an organization.	Analyzing





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CO No.	Subject: DESIGN AND ANALYSIS OF ALGORITHMS	Taxonomy Level
After completing the course the student shall be able to		
MC1635.1	Understand the fundamentals for analyzing time and space complexity of algorithms	Understanding
MC1635.2	Apply divide and conquer technique to solve real time problems related to computing and use greedy technique to solve problems	Applying
MC1635.3	Make use of dynamic programming paradigm for solving problems like knapsack, matrix multiplication and optimal binary search tree.	Applying
MC1635.4	illustrate backtracking with applications on n-queen problem sum of subsets and graph coloring	Applying
MC1635.5	Explain branch and bound paradigm with Travelling sales person problem and 0/1 knapsack problem.	Analyzing

CO No.	Subject: DATA BASE MANAGEMNT SYSTEMS LAB	Taxonomy Level
After completing the course the student shall be able to		
MC 1636.1	Demonstrate Data Base with different applications of DBMS. Identifies the entity, attributes, Relationships and keys in various Data Models.	Understanding
MC 1636.2	Utilize relational algebra concepts like selection ,projection ,relational calculus which helps in understanding queries	Applying
MC 1636.3	Experiment ddl, dml cmds ect, by writing queries in standard language of relational databases..	Applying
MC 1636.4	Develop various advance SQL queries related to Transaction Processing & Locking using concept of Concurrency control.	Applying
MC 1636.5	Analyze indexing mechanisms for efficient retrieval of information from a database.	Analyzing





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CO No.	Subject: UNIX PROGRAMMING LAB	Taxonomy Level
After completing the course the student shall be able to		
MC1637.1	To demonstrate the basic knowledge of Linux commands and file handling utilities by using Linux shell environment	Understanding
MC1637.2	To evaluate the concept of shell scripting programs by using an AWK and SED commands.	Applying
MC1637.3	To create the directory, how to change and remove the directory.	Applying
MC1637.4	To analyze the process of how the parent and child relationships	Applying
MC1637.5	To define IPC mechanism.	Analyzing

CO No.	Subject: COMPUTER NETWORKS LAB	Taxonomy Level
After completing the course the student shall be able to		
MC1638.1	Choose the practical approach to network communication protocols.	Understanding
MC1638.2	Choose network layers, structure/format and role of each network layer.	Applying
MC1638.3	Analyze to design and implement various network application such as data transmission between client and server	Applying
MC1638.4	Develop to design and implement various network application such as file transfer, real-time multimedia transmission.	Applying
MC1638.5	Build the various Routing Protocols/Algorithms and Internetworking.	Analyzing



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IV SEMESTER

CO No.	Subject: OBJECT ORIENTED ANALYSIS AND DESIGN	Taxonomy Level
After completing the course the student shall be able to		
MC 1641.1	Apply complex system using object-oriented approach	Understanding
MC 1641.2	Build the class diagram with responsibilities and state using UML notation	Applying
MC 1641.3	Identify the events, classes and responsibilities of the problem domain.	Applying
MC 1641.4	Describe basic Interactions, Use cases of the problem domain.	Applying
MC 1641.5	Implement various states and advanced behavioral modeling using UML notation. Classify components and nodes of the problem domain	Analyzing

CO No.	Subject: ADVANCED JAVA AND WEB TECHNOLOGY	Taxonomy Level
After completing the course the student shall be able to		
MC 1642.1	Identify HTML elements and its attributes	Understanding
MC 1642.2	Develop Client Side Script using HTML,CSS & JavaScript	Applying
MC 1642.3	Develop applications using SERVLET and WEB.XML Schema	Applying
MC 1642.4	Develop dynamic web application using JSP	Applying
MC 1642.5	Implement programs through JSP and JDBC	Analyzing

CO No.	Subject: DATA WAREHOUSING AND DATA MINING	Taxonomy Level
After completing the course the student shall be able to		
MC 1643.1	Understand the data warehouse principles. data mining concepts and working Understand various data preprocessing procedures and their application	Understanding
MC 1643.2	Discuss the general approach to solve Classification problem	Applying





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MC 1643.3	Discuss basic concepts and algorithms of Association analysis.	Applying
MC 1643.4	Understand the basic concepts and algorithms of Cluster Analysis.	Applying
MC 1643.5	Understand the basic concepts of data mining	Analyzing

CO No.	Subject: SOFTWARE PROJECT MANAGEMENT	Taxonomy Level
After completing the course the student shall be able to		
MC 1647.1	Conventional Software Management	Understanding
MC 1647.2	Life cycle phases	Applying
MC 1647.3	Model based software architectures	Applying
MC 1647.4	Project Control and Process instrumentation	Applying
MC 1647.5	Future Software Project Management	Analyzing

CO No.	Subject: HUMAN COMPUTER INTERACTION	Taxonomy Level
After completing the course the student shall be able to		
MC 1645.1	Popularity of graphics, the concept of direct manipulation, graphical system	Understanding
MC 1645.2	Human interaction with computers, importance of human characteristics human consideration	Applying
MC 1645.3	screen navigation and flow, Visually pleasing composition, amount of information	Applying
MC 1645.4	Components text and messages, Icons and increases. Multimedia, colors, uses problems, choosing colors	Applying
MC 1645.5	Keyboard and function keys, pointing devices, speech recognition, digitization and generation	Analyzing





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CO No.	Subject: DATA WARE HOUSING AND DATA MINING LAB	Taxonomy Level
After completing the course the student shall be able to		
MC164B.1	Understand the data warehouse principles, data mining concepts and working. Understand various data preprocessing procedures and their application	Understanding
MC164B.2	Discuss the general approach to solve Classification problem.	Applying
MC164B.3	Discuss basic concepts and algorithms of Association analysis	Applying
MC164B.4	Understand the basic concepts and algorithms of Cluster Analysis	Applying
MC164B.5	Understand the basic concepts of datamining	Analyzing

CO No.	Subject: ADVANCED JAVA AND WEB TECHNOLOGY LAB	Taxonomy Level
After completing the course the student shall be able to		
MC164A.1	To implement the various Web Pages using HTML, CSS, JavaScript.	Understanding
MC164A.2	To Perform setting up and Installing web server's i.e Tomcat server	Applying
MC164A.3	Implement simple visual bean with various areas filled with different color	Applying
MC164A.4	To Implement user authentication, session and cookies concepts using JSP & Servlets	Applying
MC164A.5	To analyze the process of JDBC connections , implement JDBC using JSP.	Analyzing





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CO No.	Subject: OBJECT ORIENTED ANALYSIS AND DESIGN LAB	Taxonomy Level
After completing the course the student shall be able to		
MC164C.1	Apply complex system using object-oriented approach.	Understanding
MC164C.2	Build the class diagram with responsibilities and state using UML notation	Applying
MC164C.3	Identify the events, classes and responsibilities of the problem domain	Applying
MC164C.4	Describe basic Interactions, Use cases of the problem domain.	Applying
MC164C.5	Implement various states and advanced behavioral modeling using UML notation. Classify components and nodes of the problem domain	Analyzing

V SEMESTER

CO No.	Subject: BIG DATA ANALYTICS	Taxonomy Level
After completing the course the student shall be able to		
MC 1651.1	Understand the basics of Java Collections and MapReduce, PIG and Hive	Understanding
MC 1651.2	Preparing for data summarization, query, and analysis.	Applying
MC 1651.3	Applying data modelling techniques to large data sets	Applying
MC 1651.4	Creating applications for Big Data analytics	Applying
MC 1651.5	Building a complete business data analytic solution	Analyzing

CO No.	Subject: NETWORK PROGRAMMING	Taxonomy Level
After completing the course the student shall be able to		
MC 1652.1	OSI model. Unix standards. TCP and UDP & TCP connection establishment	Understanding
MC 1652.2	TCP Echo server functions. Normal startup, terminate and	





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	signal handling server process termination	
MC 1652.3	Sockets and I/O Multiplexing and socket options	Applying
MC 1652.4	Elementary UDP sockets and Elementary name and Address conversions	Applying
MC 1652.5	IPC and remote Login	Analyzing

CO No.	Subject: PYTHON PROGRAMING	Taxonomy Level
After completing the course the student shall be able to		
MC 1653.1	Demonstrate indentation in the program.	Understanding
MC 1653.2	Explain various data structures and extend with examples.	Applying
MC 1653.3	Make use of modules and packages.	Applying
MC 1653.4	Build programs for user-defined exceptions.	Applying
MC 1653.5	Experiment with GUI programming.	Analyzing

CO No.	Subject: E-COMMERCE	Taxonomy Level
After completing the course the student shall be able to		
MC1656.1	Understand E-Commerce applications & , Mercantile Process models	Understanding
MC1656.2	Understand Electronic payment systems	Applying
MC1656.3	Understand the – EDI & SCM	Applying
MC1656.4	Understand the Corporate Digital Library& Advertising on Internet	Applying
MC1656.5	Understand the Consumer Search. Resource Discovery & Desktop vid conferencing	Analyzing





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CO No.	Subject: SOFTWARE TESTING METHODOLOGIES	Taxonomy Level
After completing the course the student shall be able to		
MC1659.1	Understand the basic testing procedures.	Understanding
MC1659.2	Able to support in generating test cases and test suites.	Applying
MC1659.3	Able to test the applications manually by applying different testing methods and automation tools	Applying
MC1659.4	Apply tools to resolve the problems in Real time environment.	Applying
MC1659.5	Illustrate the significance of software testing in web and object oriented techniques.	Analyzing

CO No.	Subject: BIG DATA ANALYTICS LAB	Taxonomy Level
After completing the course the student shall be able to		
MC165A.1	To implement the various Data structure concept using Java	Understanding
MC165A.2	To Perform setting up and Installing Hadoop in its three operating modes	Applying
MC165A.3	Implement file management tasks in Hadoop	Applying
MC165A.4	To understand Map Reduce Paradigm	Applying
MC165A.5	To analyze the process of configuring pig, Hive and demonstrate the basic knowledge of PIG, Hive command	Analyzing

CO No.	Subject: NETWORK PROGRAMMING LAB	Taxonomy Level
After completing the course the student shall be able to		
MC165B.1	Implement shell script for basic file operations	Understanding
MC165B.2	Implement shell script for file management operations	Applying
MC165B.3	Implement shell script for file handling work	Applying





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MC165B.4	Implement shell script for basic mathematical programming	Applying
MC165B.5	Implement shell script for copy file & count words and line in a file	Analyzing

CO No.	Subject: PYTHON PROGRAMMING LAB	Taxonomy Level
After completing the course the student shall be able to		
MC165C.1	Implement python basic and operations	Understanding
MC165C.2	Implement python conditional and control flow statements	Applying
MC165C.3	Implement DS concepts like list etc	Applying
MC165C.4	Implement how to use files and functional in python	Applying
MC165C.5	Implement&design oop and GUI , graphics in python	Analyzing

Sugay

CO-ORDINATOR

T. B. V. V.

HOD

HEAD OF THE DEPARTMENT
Department: MCA

RISE Krishna Sai Prakasham Group
of Institutions,VALLURU,A.P-523 272





RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS::ONGOLE

(Approved by AICTE-NEW DELHI, Affiliated to JNTUK KAKINADA)

NH-16, Valluru,-523272, Ongole, Prakasam District, A.P

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

CO No.	Subject: MAJOR PROJECT	Taxonomy Level
After completing the course the student shall be able to		
MC601.1	Student should able to design and construct a hardware and software system compont,or process to meet desired needs	Applying
MC601.2	Students are provided to work on multidisciplinary problems	Applying
MC601.3	Students should be able to work as professionals with portfolio ranging from data management network configuration, design hardware and software design to management and administration of entire system,	Applying

Singala
CO-ORDINATOR

T. R. V.
HEAD OF ~~HOD~~ DEPARTMENT
Department of M.C.A.
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