MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE
(Approved by AICTE, Affiliated to JNTUK)
(An ISO9001:2008 Certified Institution)
Pulladigunta (Village), Vatticherukuru (Mandal),
Guntur-522017, Andhra Pradesh, India
Department of Computer Science and Engineering

	COURSE CODE		R16 COURSE OUTCOMES
1	**C301** **COMPILER DESIGN**	**C301.1**	Apply concepts and different phases of Compiler..
		C301.2	Compare top down with bottom up parsers, and develop appropriate parser to produce parse tree representation of the input.
		C301.3	Design syntax directed translation schemes for a given context free grammar
		C301.4	Generate intermediate code for statements in high level language.
		C301.5	Apply optimization techniques to intermediate code and generate machine code for high level language program.
2	**C302** **UNIX** **PROGRAMMING**	**C302.1**	Explain various Unix basic concepts, like accessing Unix ,
		C302.2	able to organize the files and directories
		C302.3	Use various Meta characters to access/display the required data
		C302.4	Apply insert ,retrieve& search methods on the required data by using various Unix commands .
		C302.5	Build simple & effective shell scripts
		C302.6	Differentiate the different types of processes & also explain their purpose
3	**C303** **OBJECT** **ORIENTED ANALYSIS** **AND DESIGN USING** **UML**	**C303.1**	Model the solutions for complex problems using object oriented approaModel the solutions for complex problems using object oriented approach.
		C303.2	Examine the relationships and use notations to design class diagrams.
		C303.3	Analyse behavioural modelling concepts of the system.
		C303.4	Evaluate concepts of events, signals for state chart diagrams.
		C303.5	Apply the concepts of architectural design for various case studies and applications.
4	**C304** **DATABASE** **MANAGEMENT** **SYSTEMS**	**C304.1**	Demonstrate database management system and its architecture levels in relation with all types of users and query optimization.
		C304.2	Build a database system with specified constraints and normalization levels for a given real world problem.
		C304.3	Construct Queries in Relational algebra, relational calculus and Structured Query Language efficiently.
		C304.4	Schedule the transactions properly to maintain concurrency control.
		C304.5	Analyze various recovery methods to keep data base consistent.
		C304.6	Choose appropriate storage and indexing techniques for the fast retrieval of data.
5	**C305** **OPERATING SYSTEM**	**C305.1**	Apply the operating system resources, services,processes and scheduling algorithms for system management
		C305.2	Compare various memory management schemes and solve page replacement algorithms in memory management for efficient storage of data
		C305.3	Apply the principles of concurrency, deadlock prevention and avoidance algorithm to increase the system performance
		C305.4	Solve issues related to file system interface, file system implementation and disk management for better utilization of memory
		C305.5	Analyze administrative tasks on Linux Server and Android operating system for developing applications.

6	C306 UML LAB	C306.1	Understand the unified modeling language and Rational Rose for object oriented modeling
		C306.2	Illustrate the conceptual Model of UML.
		C306.3	Represent Behavioral diagrams in UML.
		C306.4	Identify the basic and advanced structural diagrams.
		C306.5	Relate forward and reverse engineering for a software system.
		C306.6	Assess the architectural modeling of UML
7	C307 OS & LINUX LAB	C307.1	Implement Different management policies like CPU scheduling, page replacement resource allocation and classical process synchronization problem etc.
		C307.2	Implement various file allocation Stratagies
		C307.3	To use Unix Utilities and perform basic shell commands of the utilities
		C307.4	To use the Unix file System and file access control
		C307.5	Solve problem using bash shell scripting
8	C308 DATA BASE MANAGEMENT SYSTEMS LAB	C308.1	Design and implement a database schema for a given problem domain.
		C308.2	Create and maintain tables using PL/SQL.
		C308.3	Populate and Query a Database.
		C308.4	Prepare Reports.
		C308.5	Application development using PL/SQL & front end tools.
		C308.6	Create and populate a RDBMS for a real life application, with constraints and keys, using SQL.
9	C309 PROFESSIONAL ETHICS	C309.1	Identify human Values and ethics useful for the survival in Society
		C309.2	Illustrate professional roles played by an engineer in the society
		C309.3	Interpret the concepts of Engineering in social experimentation
		C309.4	explain the role of engineers to maintain safety
		C309.5	Identify the rights and responsibilities of engineers at work place.
		C309.6	Explain different issues related to globalization and research.
10	C310 COMPUTER NETWORKS	C310.1	Utilize the network topologies for various models
		C310.2	Apply different types of transmission media and techniques for error detection and correction.
		C310.3	Analyze MAC protocols for channel allocation
		C310.4	Classify the routing and congestion control algorithms.
		C310.5	Design various protocols for security, Authentication and data transmission. .
11	C311 DATAWARE HOUSING & DATA MINING	C311.1	Understand stages in building a Data Warehouse
		C311.2	Understand the need and importance of pre-processing techniques
		C311.3	Understand the need and importance of Similarity and dissimilarity techniques
		C311.4	Analyze and evaluate performance of algorithms for Association Rules.
		C311.5	Analyze Classification and Clustering algorithms.

12	**C312** **DESIGN AND ANALYSIS OF ALGORITHMS**	**C312.1**	Analyze the algorithms and Examine time complexities of algorithms.
		C312.2	Apply divide-and-conquer paradigm to solve algorithms.
		C312.3	Apply greedy method to solve minimum cost spanning trees.
		C312.4	Analyze dynamic programming algorithm.
		C312.5	Analyze backtacking algorithms.
		C312.6	Describe Branch and Bound algorithms.
13	**C313** **SOFTWARE TESTING METHODOLOGIES**	**C313.1**	Know the basic concepts of software testing and its essentials
		C313.2	Perform functional testing using transaction flow and control flow graphs.
		C313.3	Test a domain or an application and identifying the nice and ugly domains.
		C313.4	Classify a path expression and reduce them very well when needed.
		C313.5	Apply an effective, step-by-step process for identifying needed areas of testing, designing test conditions and building and executing test cases.
		C313.6	Apply appropriate software testing tools, techniques and methods for even more effective systems during both the test planning and test execution phases of a software development project.
14	**C314** **ARTIFICIAL INTELLIGENCE**	**C314.1**	To understand the Basic concepts of Intelligence with latest trends.
		C314.2	To differentiate the Problem Solving and Problem Reduction
		C314.3	To Estimate the logic concepts of Predicates.
		C314.4	To Complete the knowledge Representation.
		C314.5	To understand the Expert Systems.
		C314.6	To understand the Fuzzy Logic Concepts.
15	**C315** **NP LAB**	**C315.1**	Use network related commands and configuration files for Establishing network.
		C315.2	Develop a channel establishment using TCP and UDP
		C315.3	Use several system calls
		C315.4	Apply socket system calls for remote command execution
		C315.5	Illustrate Transfer protocols for communication
		C315.6	Implement algorithms for identifying errors in networks
16	**C316** **SOFTWARE TESTING LAB**	**C316.1**	To Apply Win Runner testing tool implementation.
		C316.2	To Study the Win Runner Testing tool and its implementation
		C316.3	Find practical solutions to the problems of C.
		C316.4	Create the test cases for the Banking application.
		C316.5	Manage a project like Library system
		C316.6	Solve specific problems for ATM applications.
17	**C317** **DATA MINING LAB**	**C317.1**	Ability To Explain Different kinds of Dta Warehouse Tools.
		C317.2	Utilize the Existing tool and perform data Pre processing
		C317.3	Ability To Analyze the data and apply appropriating Algorithm for decision making
		C317.4	Ability to add mining algorithms as a component to the Existing Tool.
		C317.5	Ability to develop a system to help a loan officer to decide wheather the creadit of a customer is good or bad using mininh Algorithm.

18	C318 IPR & PATENT	C318.1	Identify human Values and ethics useful for the survival in Society
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		C318.3	Interpret the concepts of Engineering in social experimentation
		C318.4	explain the role of engineers to maintain safety
		C318.5	Identify the rights and responsibilities of engineers at work place.
		C318.6	Explain different issues related to globalization and research.

Signature Of The Head Of The Department