

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER
DEPARTMENT OF ELECTRONICS & COMPUTER ENGINEERING
COURSE OUTCOMES (CO)
TE. 2019 Course

Database Management (310341), TE-Sem-V

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C301.1	Understand the underlying concepts of a database system	2
C301.2	Design a database schema for a given problem-domain using data model	6
C301.3	Formulate , using SQL/DML/DDDL commands, solutions to a wide range of query and update problems	3,6
C301.4	Implement transactions, concurrency control, and be able to do Database recovery	3
C301.5	Understand various Database Architectures and its applications	2
C301.6	Understand distributed database management systems.	2

Advanced Java Programming (310342), TE-Sem-V

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C302.1	Design and develop GUI applications using Applets.	6
C302.2	Apply relevant AWT/ swing components to handle the given event.	3
C302.3	Design and develop GUI applications using Abstract Windowing Toolkit (AWT), Swing and Event Handling.	6
C302.4	Learn to access database through Java programs, using Java Database Connectivity (JDBC)	2
C302.5	Invoke the remote methods in an application using Remote Method Invocation (RMI).	3
C302.6	Develop program for client /server communication using Java Networking classes.	6

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Data Communication (310343), TE-Sem-V

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C303.1	Understand network communication using the layered concept , Open System Interconnect (OSI) and the Internet Model.	2
C303.2	Types of transmission media, network devices; and parameters of evaluation of performance for each media and device.	5
C303.3	To explain the design of, and algorithms used in, the physical, data link layers.	2,6
C303.4	working principles of LAN and understand concepts behind physical and logical addressing, subnetting and supernetting.	2
C303.5	The functions performed by a Network Management System and to analyze connection establishment and congestion control with respect to TCP Protocol.	4
C303.6	The principles and operations & design of various application layer protocols like HTTP, SMTP, FTP.	6

Microcontroller & Applications (310344), TE-Sem-V

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C304.1	Understand architecture and features of 8051 microcontroller along with instruction set.	2
C304.2	Define software and hardware development tools, Illustrate interfacing with different peripherals.	1,2
C304.3	Design and Develop interfacing to real world devices using 8051 microcontroller.	6
C304.4	Describe architecture of MSP430, their targeted application and features along with instruction set.	1,2
C304.5	Explain different GPIO registers, its programming and I/O multiplexing. Develop applications by interfacing peripherals with MSP430 microcontroller.	6
C304.6	Develop applications based on 8051 and MSP430 microcontroller.	2

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Elective –I Block Chain Technology (310345B), TE-Sem-V
After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C305.1	Understand the basic concepts and architecture of Blockchain Technology	2
C305.2	Demonstrate distributed decentralized system, its applications and regulations	3
C305.3	Demonstrate the application of hashing in cryptography	3
C305.4	Demonstrate the verification process through Ethereum and consensus in blockchain technology.	3
C305.5	Illustrate the concepts of Bitcoin and its process in blockchain technology.	4
C305.6	Understand and illustrate Blockchain with allied technologies such as cloud computing, AI, IoT, Robotics	2

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Embedded Processors and Applications (310354), TE -Sem-VI

Co. No.	Description	Bloom's Taxonomy Level
C304.1	Demonstrate the ARM architecture and its feature along with instruction set.	1,2,3
C304.2	Understand ARM7 Based Microcontroller LPC 2148 architecture.	1,2,3
C304.3	Interface the advanced peripherals to ARM based microcontroller.	1,2,3,4
C304.4	Demonstrate the ARM cortex M3 architectures and its features.	2,3,4
C304.5	Understand ARM CORTEX M4 based Microcontroller STM32F4xx architecture.	1,2,3,4
C304.6	Design simple applications using ARM and IoT.	6

Software Engineering & Project Management (310352), TE-Sem-V

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C3O1.1	Analyze software requirements and formulate design solution for a software.	4
C3O1.2	Design applicable solutions in one or more application domains using software engineering approaches that integrate ethical, social, legal and economic concerns.	6
C3O1.3	Apply new software models, techniques and technologies to bring out innovative and novelistic solutions for the growth of the society in all aspects and evolving into their continuous professional development.	3
C3O1.4	Model and design User interface and component-level.	6
C3O1.5	Identify and handle risk management and software configuration management.	2
C3O1.6	Utilize knowledge of software testing approaches, approaches to verification and validation.	3

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Computer Networks and Security (310353), TE-Sem-VI

After successfully completing the course students will be able to,

Co. No.	Description
C301.1	Understand fundamental principles of computer networking
C302.2	Describe and analyze the hardware, software, components of a network and their interrelations.
C303.3	Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies
C304.4	Have a basic knowledge of installing and configuring networking applications.
C305.5	Specify and identify deficiencies in existing protocols, and then go onto select new and better protocols.
C306.6	Have a basic knowledge of the use of cryptography and network security.

PLC and Automation (310355D), TE- Sem- VI

Co. No.	Description
CO1	Apply concepts of PLC, its uses for industrial applications.
CO2	Demonstrate Relay logic instructions & PLC ladder programs for industrial applications.
CO3	Demonstrate timer, counter arithmetic, comparison functions & PLC ladder programs for industrial applications.
CO4	Make use of knowledge of Installation, troubleshooting & maintenance of PLC to provide solution for industrial automation problems.
CO5	Describe fundamentals of process control, SCADA & HMI.
CO6	Select appropriate interfacing technique & communication protocol to establish communication with field devices, HMI & SCADA.

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