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

Electronic Circuits (210243), SE- Sem- III, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C202.1	**Describe** the physics, characteristics and parameters of MOSFET towards its application as amplifier.	2
C202.2	**Design** MOSFET amplifiers, with and without feedback & MOSFET oscillators for given specifications and **calculate** the various performance parameters.	3, 6
C202.3	**Examine** and **assess** the performance of linear and switching regulators, with their variants, towards applications in regulated power supplies.	4, 5
C202.4	**Explain** internal schematic of Op-Amp and **define** its performance parameters.	1, 2
C202.5	**Design**, **Build** and **test** Op-amp based analog signal processing and conditioning circuits towards various real time applications.	4, 6
C202.6	**Illustrate** and **compare** the principles of various data conversion techniques and PLL with their applications.	2, 3, 4

Digital Circuits(210244), SE-Sem-III, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C203.1	**Identify** and prevent various hazards and timing problems in a digital design.	2
C203.2	Use the basic logic gates and **Design** various reduction techniques of digital logic circuit.	1,2
C203.3	**Analyze**, **design** and implement combinational logic circuits.	4,6
C203.4	**Analyze**, **design** and implement sequential circuits.	4,6
C203.5	**Differentiate** between Mealy and Moore machines & **Design** ASM chart for sequential circuits.	2,6
C203.6	**Analyze** digital system **design** using PLD.	4,6

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Data structures & Algorithms (210245), SE-Sem-III, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C204.1	**Solve** mathematical problems using C programming language.	4
C204.2	**Implement** sorting and searching algorithms and **calculate** their complexity.	3
C204.3	**Develop** applications of stack and queue using array.	6
C204.4	**Demonstrate** applicability of Linked List.	2
C204.5	**Demonstrate** applicability of nonlinear data structures - Binary Tree with respect to its time complexity.	2
C204.6	**Apply** the knowledge of graph for solving the problems of spanning tree and shortest path algorithm.	3

Computer Organization (210246), SE- Sem- III, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C205.1	**Recall and Summarize** the basic concept of computer fundamentals, Number system, Boolean algebra, Karnaugh map and Perform problems on IEEE 754 standard number system.	1,4
C205.2	**Explain** the concept of stored program, role of operating system, Instruction sets and Addressing modes and Demonstrate problems on Addressing modes.	1
C205.3	**Design** of adders, ALU and Memory management unit and Illustrate problems related to cache memory.	2
C205.4	**Explain** and Use fixed point multiplication (Booth's) and division (Restoring and non-restoring) algorithms.	1
C205.5	**Explain** the concept of Instruction pipeline, RISC, CISC.	1
C205.6	**Develop** control unit and Explain the concept of various I/O operations.	6

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Signals and Systems (210342), SE-Sem-IV, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C208.1	**Identify, classify** basic signals and perform operations on signals. Write Matlab program for generation of signals and plot them for defined span of time.	1,2,3
C208.2	**Identify, Classify** the systems based on their properties in terms of input output relation and in terms of impulse response and will be able to **determine** the convolution between to signals. Write and verify the matlab program for convolution of two signals.	1,2,3
C208.3	**Analyze** and **resolve** the periodic signals in frequency domain using Fourier series and check the magnitude, phase spectrum of given signal. Write and verify the matlab program for fourier series of given signal (e.g. speech recording) and realize the significance of Gibb's phenomenon.	1,2,3,4
C208.4	To **Analyze** and **resolve** the signals in frequency domain using Fourier Transform.	1,2,3,4
C208.5	To Analyze and resolve the signals in frequency domain using Laplace Transform.	1,2,3
C208.6	Compute the mean, mean square, variance and standard deviation for given random variables using PDF CDF,	1,2,3

Principles of Programming Language (210343), SE - Sem-IV, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C209.1	**Understand, Define** and **Apply** the knowledge of Syntax and Semantics in Programming Language.	1,2,3
C209.2	**Understand and Define** importance of Data structures, Structuring of Computations and use them in JAVA.	1,2
C209.3	**Underatand and Define** the concept of programming Structure and Paradigms.	1,2
C209.4	**Understand** the significance of Object Oriented Programming and **Apply** the concept's in JAVA programming.	1,2,3
C209.5	**Understand** Programming Structure in the form classes and methods, Inheritances, Packages and Interfacing in JAVA Programming.	1,2
C209.6	**Learn and apply** the knowledge of exceptional JAVA programming through managing I/O and Applet.	1,3

Principles of Communication Systems(210344), SE- Sem-IV, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C210.1	To **compute & compare** the bandwidth and transmission power requirements by **analyzing** time and frequency domain spectra of signal required for modulation schemes under study.	2,3,4
C210.2	**Describe** and **analyze** the techniques of generation, transmission and reception of Amplitude Modulation Systems.	1,4
C210.3	**Explain** generation and detection of FM systems and **compare** with AM systems.	2,4
C210.4	**Exhibit** the importance of Sampling Theorem and **correlate** with Pulse Modulation Technique (PAM, PWM, and PPM).	3,5
C210.5	**Characterize** the quantization process and **elaborate** digital representation techniques (PCM, DPCM, DM and ADM).	2
C210.6	**Illustrate** waveform coding, multiplexing and synchronization techniques and **articulate** their importance in baseband digital transmission.	1,3

Object Oriented Programming (210345), SE - Sem-IV, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C211.1	**Describe** the principles of object oriented programming. **Creating** simple programs using classes and objects in C++.	1, 2
C211.2	**Apply** the concepts of data encapsulation, inheritance in C++. **Develop** applications using basic I/O functions.	3, 6
C211.3	**Understand** operator overloading and friend functions in C++. **Create** a program for complex class using operator overloading function.	2, 6
C211.4	**Apply** the concepts of classes, methods, inheritance and polymorphism to write programs in C++. **Create** a program for employee class using multiple inheritance.	2, 3, 6
C211.5	**Apply** Templates, Namespaces and Exception Handling concepts to write programs in C++. **Apply** try and catch concept in C++ program for exception handling.	2, 6
C211.6	**Describe** and use of file handling in C++. **Understand** how to copies the contents of one file to another.	1, 2

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System Programming & Operating Systems (210346), SE - Sem-IV, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C212.1	**Demonstrate** the knowledge of system programming and operating system	2
C212.2	**Identify** the functionality of different language processing components.	3
C212.3	**Formulate** the problem & develop the solution for it.	6
C212.4	**Compare** and analyse the different implementation approach of system programming.	4
C212.5	**Analyse** the various memory management techniques for timesharing & distributed systems.	4
C212.6	**Interpret** various OS functions used for I/O management disk scheduling & file management.	3

Employability Skills Development (210350), SE-Sem-IV, 2022-23

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C213.1	**Define** personal & career goals using introspective skills & swoc assessment.	1
C213.2	**Develop** effective communication skills of self-management attribute Problem solving & team work.	6
C213.3	Be a part of multi-cultural & work effectively by **developing** inter-personal relationships, leadership & leadership skills.	6
C213.4	**Understand** the importance of professional ethics, morals etc.	2
C213.5	**Develop** practically deployable skill set involving critical thinking, effective presentations & professional environment.	6
C213.6	**Interpret** to fetch employment **opportunities** & further succeed in workplace.	2