

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

DEPARTMENT OF ELECTRONICS ENGINEERING

COURSE OUTCOMES (CO)

SE. 2015 Course

Signals & Systems (204181), SE-Sem-III, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C281.1	Identify, classify basic signals and perform operations on signals	1,2,3
C281.2	Identify, Classify the systems based on their properties in terms of input output relation and in terms of impulse response and determine the convolution between to signals.	1,2,3
C281.3	Analyse and resolve the signals in frequency domain using Fourier series.	1,2,3,4
C281.4	Analyse and resolve the signals in frequency domain using Fourier Transform.	1,2,3,4
C281.5	Apply and analyse LTI systems and signals in complex frequency domain using Laplace Transform.	1, 2,3
C281.6	Define and Describe the probability, random variables and random signals. Compute the probability of a given event, model, compute the CDF and PDF.	1,2,3

Electronics Devices and Circuits (204182), SE-Sem-III, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C282.1	Understand JFET, its characteristics, operations, dc and ac analysis by implementation and simulation.	2
C282.2	Understand MOSFET, its characteristics, operation, and its dc analysis.	3, 6
C282.3	Analyse small signal model of FET and MOSFET.	4, 5
C282.4	Understand different circuits using MOSFET.	1, 2
C282.5	Understand and apply concept of positive and negative feedback in electronic circuits.	4, 6
C282.6	Design an adjustable voltage regulator circuits.	2, 3, 4

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SE. 2015 Course

Electrical Circuits and Machines (204183), SE-Sem-III, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C283.1	Analyze basic AC & DC circuit for voltage, current and power by using KVL, KCL, and network theorems.	4
C283.2	Design and analyze transformers.	4,6
C283.3	Explain construction, working, types of DC Machines, Analyze and Select a suitable motor for different applications.	2,3,4
C283.4	Explain construction, working, types of Three Phase AC Motors, Analyze and Select a suitable motor for different applications.	2,4,5
C283.5	Explain construction, working principle of BLDC Motor, Reluctance Motor, Universal Motor and Select proper electrical motor for given application.	2,5
C283.6	Explain working of Stepper Motor, Servo motor, single phase Induction Motor and Select proper electrical motor for given application.	2,5

Data Structures and Algorithms (204184), SE- Sem- III, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C284.1	Discuss the computational efficiency of the principal algorithms such as sorting & searching.	2
C284.2	Write and understand the programs that use arrays & pointers in C.	2,4
C284.3	Describe how arrays, records, linked structures are represented in memory and use them in algorithms.	1
C284.4	Implement stacks & queues for various applications.	1,6
C284.5	Understand various terminologies and traversals of trees and use them for various applications.	2,4
C284.6	Understand various terminologies and traversals of graphs and use them for various applications.	2,4

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SE. 2015 Course

Digital Electronics (204185), SE-Sem-III, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C85.1	Use the basic logic gates and various reduction techniques of digital logic circuit in detail. Analyze and Design combinational circuits.	1,4,6
C85.2	Analyze and Design sequential circuits and implement hardware circuit to test performance and application.	4,6
C85.3	Differentiate between Mealy and Moore machines & Design ASM chart for sequential circuits.	2,6
C85.4	Identify and prevent various hazards and timing problems in a digital design.	2
C85.5	Analyze digital system design using PLD.	4,6
C85.6	Understand the architecture and use of microcontrollers for basic operations and Simulate using simulation software.	2,3

Electronic Measuring Instruments and Tools (204186), SE-Sem-III, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C286.1	Understand fundamental of various electrical measurements.	1, 2
C286.2	Understand and describe specifications, features and capabilities of electronic instruments.	1, 2
C286.3	Finalize the specifications of instrument and select an appropriate instrument for given measurement.	1,4
C286.4	Carry out required measurement using various instruments under different setups.	2,4
C286.5	Able to compare measuring instruments for performance parameters	2,5
C286.6	Select appropriate instrument for the measurement of electrical parameter professionally.	1,4

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COURSE OUTCOMES (CO)

SE. 2015 Course

Integrated Circuits (204187), SE-Sem-IV, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C287.1	Describe, analyze and design various blocks of OPAMP, compare ideal and practical Opamp parameters ,with their significance.	2,4,6
C287.2	Analyze and design linear applications of OPAMP.	4,6
C287.3	Analyze and design nonlinear applications of OPAMP.	4,6
C287.4	Describe various converters and discuss their performance parameters as application point of view	1,2
C287.5	Interpret roll of positive feedback in various oscillators, Analyze and design various oscillators. Also understand and apply the functionalities of PLL to various applications in communication	2,3,4,6
C287.6	Classify various active filters , sketch their frequency response and design for given specifications	2,4,6

Control Systems(204188), SE-Sem-IV, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C288.1	Determine and use models of physical systems in forms suitable for use in the analysis and design of control systems.	1,3,6
C288.2	Determine the (absolute) stability of a closed-loop control system and Perform time domain analysis of control systems required for stability analysis.	1,4
C288.3	Apply root-locus, Frequency Plots technique to analyze control systems.	3,4
C288.4	Perform frequency domain analysis of control systems required for stability analysis.	4
C288.5	Express and solve system equations in state variable form.	2,3
C288.6	Differentiate between various digital controllers and Explain features of digital control systems	1,2

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COURSE OUTCOMES (CO)

SE. 2015 Course

Analog communication (204189), SE- Sem IV, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C289.1	Describe and analyse the techniques of generation and transmission and reception of Amplitude Modulation systems.	1,2,3,4
C289.2	Describe and analyse the techniques of reception of Amplitude Modulated signal	1,2,3
C289.3	Describe and analyse the techniques of generation and transmission of Frequency Modulation Systems.	1,2,3,4
C289.4	Describe and analyse the techniques of reception of Frequency Modulated signals.	1,2,3
C289.5	Explain signal to noise ratio, noise figure and noise temperature for single and cascaded stages in a communication system. Develop the ability to compare and contrast the strengths and weaknesses of various communication systems in presence of noise.	1,2,3
C289.6	Understand initial steps of signal processing for conversion of analog signal to Digital signal for Digital communication system	1,2,3

Object Oriented Programming (204191), SE- Sem IV, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C291.1	Justify the philosophy of object-oriented design and the concepts of encapsulation, abstraction, inheritance, and polymorphism;	2
C291.2	Design, implement, test, and debug simple programs in an object-oriented programming language	3
C291.3	Describe how the class mechanism supports encapsulation and information hiding.	2
C291.4	Design, implement, and test the implementation of "is-a" relationships among objects using a class hierarchy and inheritance.	3
C291.5	Compare and contrast the notions of overloading and overriding methods in an object-oriented language.	2
C291.6	Able to write Applet programming	2

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SE. 2015 Course

Employability Skill Development (204191), SE-Sem-IV, 2016-17

After successfully completing the course students will be able to,

Co. No.	Description	Bloom's Taxonomy Level
C291.1	Compare between “soft skills and hard skills” & “resume and curriculum vitae”, understand the importance of professional presentations.	2
C291.2	Have skills and preparedness to solve the arithmetic and mathematical reasoning.	2, 3
C291.3	Solve the verbal and non-verbal aptitude.	2, 3
C291.4	Understand the basic concept of English sentences, Compose the Paragraph, Story, Letter and e-mail.	2,6
C291.5	Identify the preparatory steps to face a job interviews and tips to crack it, develop the personality traits for successful participation in group discussions.	1,6
C291.6	Construct the team and lead it for problem solving.	3