

Subject Name-Signals and systems**Subject Code-204181****SEM-I**

Sr No	Code	Statement
1	C211.1	Examine different continuous and discrete time signals and systems through mathematical description.
2	C211.2	Examine input output relationship for linear time invariant system, convolution and its properties for continuous and discrete time system
3	C211.3	Interpret signals using Fourier series
4	C211.4	Interpret signals using Fourier transforms
5	C211.5	Recognize the limitations of Fourier transform and need for Laplace transform and develop the ability to analyze the system in s- domain
6	C211.6	Demonstrate the correlation, CDF, PDF and probability of given event using the basic concept of probability, random variables & random signals

Subject Name-Electronics Devices & Circuits**Subject Code-204182 SEM-I**

Sr No	Code	Statement
1	C212.1	Discuss operation, biasing and applications of JFET
2	C212.2	Estimate the working of MOSFET & its DC Analysis
3	C212.3	Express the working of MOSFET AC Analysis & BiCMOS technology
4	C212.4	Explain different MOSFET Circuits
5	C212.5	Differentiate between Feedback amplifiers and Oscillators
6	C212.6	Explain the different types of voltage regulator.

Subject Name-Electrical Circuits and Machines**Subject Code-204183****SEM-I**

Sr No	Code	Statement
1	C213.1	Use different techniques to find parameters of electrical circuits.
2	C213.2	Investigate the principle and operation of transformers and their types
3	C213.3	Discuss principle of operation of DC machines and speed control of DC motors.
4	C213.4	Explain three phase induction motor working and its applications
5	C213.5	Identify the special motors with their construction and characteristics.
6	C213.6	Select Different Types of stepper motor and its applications

Subject Name-Data Structures and Algorithms**Subject Code-204184****SEM-I**

Sr No	Code	Statement
1	C214.1	Discuss the computational efficiency of the principal algorithms such as sorting & searching
2	C214.2	Execute the programs that use arrays & pointers in C
3	C214.3	Describe how arrays, records, linked structures are represented in memory
4	C214.4	Implement stacks & queues for various applications.
5	C214.5	Implement traversal of trees
6	C214.6	Implement traversals of graphs

Subject Name-Digital Electronics**Subject Code-204185****SEM-I**

Sr No	Code	Statement
1	C215.1	Implement combinational logic circuits.
2	C215.2	Implement sequential circuits.
3	C215.3	Differentiate between Mealy and Moore machines.
4	C215.4	Explain the characteristics of digital logic families
5	C215.5	Examine digital system design using PLD.
6	C215.6	Explain the architecture of 8051 microcontroller

Subject Name-Electronic Measuring Instruments & Tools**Subject Code-204186****SEM-I**

Sr No	Code	Statement
1	C216.1	Demonstrate fundamental of various electrical measurements.
2	C216.2	Interpret electronic instruments based on the specifications and features .
3	C216.3	Select the appropriate instrument for given measurement based on the specification
4	C216.4	Interpret various instruments under different setups.

Subject Name-Engineering Mathematics-III**Subject Code-207005****SEM-II**

Sr No	Code	Statement
1	C221.1	Solve higher order linear differential equation using appropriate techniques for modeling and analysing electrical circuits.

2	C221.2	Use Fourier Transform, Z-Transform and Integral Transform techniques to solve integral, difference equations.
3	C221.3	Detecting Interpolating polynomial, Numerical solution of ODE and definite integration by using Numerical methods.
4	C221.4	Illustrating vector fields by using vector differentiation.
5	C221.5	Determine line,surface and volume integral & problems involved in Electromagnetic Field Theory .
6	C221.6	Illustrate conformal mappings, transformations and contour integration of complex functions.

Subject Name-Integrated Circuits

Subject Code-204187

SEM-II

Sr No	Code	Statement
1	C222.1	Find characteristics of IC and Op-Amp and its internal structure
2	C222.2	Discuss various manufacturing techniques.
3	C222.3	Discuss various op-amp parameters and their significance for Op-Amp.
4	C222.4	Illustrate frequency response, transient response and frequency compensation techniques for Op-Amp.
5	C222.5	Identify linear and nonlinear applications of Op-Amp
6	C222.6	Estimate functionalities of PLL in various applications in communication and control systems

Subject Name-Control System

Subject Code-204192

SEM-II

Sr No	Code	Statement
1	C223.1	Examine models of physical system in simplified form in order to distinguish and design the control system.
2	C223.2	Determine stability of closed loop control system in time domain
3	C223.3	Examine & Compare stability of time domain control systems
4	C223.4	Calculate stability of control system in frequency domain using root locus, frequency plot techniques
5	C223.5	Solve system equations in state variable form
6	C223.6	Distinguish various digital controllers and their role in industrial automation

Subject Name-Analog Communication

Subject Code-204189

SEM-II

Sr No	Code	Statement
1	C224.1	Identify the fundamental concepts and Develop the ability to compare the strengths and weaknesses various techniques of Amplitude Modulation systems.
2	C224.2	Identify the fundamental concepts and Develop the ability to compare the strengths and weaknesses various techniques of Amplitude reception systems

3	C224.3	Identify the fundamental concepts and Develop the ability to compare the strengths and weaknesses various techniques of Frequency Modulation systems.
4	C224.4	Identify the fundamental concepts and Develop the ability to compare the strengths and weaknesses various techniques of Frequency reception systems.
5	C224.5	Explain signal to noise ratio, noise figure and noise temperature for single and cascaded stages in a communication system.
6	C224.6	Describe analog pulse modulation techniques and digital modulation technique.

Subject Name-Object Oriented Programming

Subject Code-204190

SEM-II

Sr No	Code	Statement
1	C225.1	Describe the principles of object oriented programming.
2	C225.2	Explain the concepts of data encapsulation, inheritance in C++.
3	C225.3	Explain the basic operators and program constructs in Java.
4	C225.4	Implement the concepts of classes, methods inheritance and polymorphism for JAVA programing.
5	C225.5	Recognize various terminologies such as arrays, vectors and strings concepts and interfaces for JAVA programing.
6	C225.6	Explain the concepts in Java to develop user friendly program

Subject Name Employability Skills Development

Subject Code-204191

SEM-II

Sr No	Code	Statement
1	C226.1	Prepare the skills necessary for a successful career
2	C226.2	Articulate communication skills
3	C226.3	Exercise leadership and team-building skills
4	C226.4	Illustrate presentation skills