

Jayawant Shikshan Prasarak Mandal's JSPM Narhe Technical Campus Rajarshi Shahu School of Engineering and Research

E&TC Engineering Department



Course Name:-	Engineering Mathematics III
Course Code:- 207005	
At the end of course, students will be able to-	
CO1:-	Solve higher order linear differential equation using appropriate techniques for analyzing electrical
	circuits.
CO2:-	Solve problems related to Fourier transform, Z-Transform and applications to Signal and Image
	processing.
CO3:-	Apply statistical methods like correlation, regression analysis and probability theory for analysis and
<u> </u>	prediction of a given data.
C04:-	Perform vector differentiation and integration to analyze the vector fields.
CU5:-	Analyze conformal mappings, transformations and perform contour integration of complex functions
Course News	required in Image processing, Digital filters and Computer graphics.
Course Name:-	
Course Code:-	-204187
At the end of course, st	udents will be able to-
CO1:-	Explain basic building blocks of op-am and identify closed loop configurations of op amp
CO2:-	Design and analyze linear and nonlinear application of op amp
CO3:-	Design and Compare various convertors using op amp
CO4:-	Apply functionalities of PLL to various applications
Course Name:-	Control Systems
Course Code:-	204188
At the end of course, st	udents will be able to-
CO1:-	Model a physical and electrical system and visualize its input-output relationships by means of block
	diagrams and Signal flow graph.
CO2:-	Analyze a linear control system in time and frequency domain using graphical methods.
CO3:-	Model and analyze the control system using state space analysis.
CO4:-	Visualize the concept of PLC and PID controllers and analyze digital control system using transfer
	function
Course Name:-	Analog Communication
Course Code:-	-204189
At the end of course, st	udents will be able to-
CO1:-	Explain the various components of electronics communication system and describe the various
	amplitude modulation techniques.
CO2:-	Analyze the AM radio receiver and evaluate the radio receiver performance parameters.
CO3:-	Describe the mathematical analysis of FM with frequency spectrum.
CO4:-	Demonstrate the FM radio receiver and describe the detection techniques.
CO5:-	Explain signal to noise ratio , noise figure, noise temperature for single and cascaded stages in
	communication system.
Course Name:-	Object Oriented Programming
Course Code:-	204190
At the end of course, st	udents will be able to-
CO1:-	Define object oriented concepts used in C++ and Java.
CO2:-	Demonstrate fundamentals of programming such as variables, expressions conditional and iterative
	execution, methods, etc. in C++ and Java.
CO3:-	Apply fundamentals of object-oriented programming in C++, Java such as classes, invoking methods,
	using class libraries, etc.
CO4:-	Develop computer program to solve specified problems with C++ and JAVA languages
CO5:-	Use the Java SDK environment and eclipse IDE to create, debug and run simple Java programs.
Course Name:-	Employability Skill Development

Course Code:-	-204191
At the end of course, students will be able to-	
CO1:-	Explain and design various types of linear power supply.
CO2:-	Design data acquisition system with its specifications
CO3:-	Recognize and design SMPS for desired specification
Course Name:-	Audit Course -2
Course Code:-	-204193
At the end of course, students will be able to-	
CO1:-	Student will have ability of basic communication.
CO2:-	Student will have the knowledge of Japanese script
CO3:-	Get introduced to reading , writing and listening skills