BANSAL INSTITUTE OF RESEARCH AND TECHNOLOGY, BHOPAL
Kokta Anand Nagar, Bhopal

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

COURSE OUTCOMES (COs)

Semester: III

Course Name: Mathematics-III	**Course Code: BT-301**
Students will be able to:	
CO1:	Solve an algebraic and transcendental equation, simultaneous linear system and ordinary differential equation using an appropriate numerical method.
CO2:	Explain the problems based on interpolation theory.
CO3:	Solve a differential equation using an appropriate numerical method.
CO4:	Analyze the integral transforms in the solution of ordinary and partial differential equations.
CO5:	Apply discrete and continuous probability distributions in analyzing the probability models arising in mathematical solution in engineering field.

Course Name: Electronics Measurement & Instrumentation	**Course Code: EC-302**
Students will be able to:	
CO1:	Identify the characteristics and principle behind measuring instruments.
CO2:	Explain the functionality and working principle of CRO & various measuring bridges.
CO3:	Explain the fundamentals of various energy conversion devices.
CO4:	Describe the signal generator & various display diodes.

CO5:	Describe various types of Analog to Digital & Digital to Analog Convertors.

Course Name: Digital System Design	**Course Code: EC-303**
Students will be able to:	
CO1:	Describe the problems based on number systems & logic gates.
CO2:	Describe the operations of different combinational logic circuits
CO3:	Explain various synchronous sequential circuits like flip flops & finite state machines.
CO4:	Analyze the various types of registers and counters.
CO5:	Analyze the various digital logic families and semiconductor memories.

Course Name: Electronic Devices	**Course Code: EC-304**
Students will be able to:	
CO1:	Identify the Properties of various Semiconductor Materials.
CO2:	Understand the different types of diode and its application as a Rectifier and Voltage regulator circuit.
CO3:	Explain the Fundamentals of BJT and Transistor biasing circuits.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CO4:	Select Small Signal parameters, analysis of transistor amplifier using h-parameter and Large signal analysis and Power Amplifiers.
CO5:	Explain the Fundamentals of Unipolar transistor like FET, MOSFET and UJT.

Course Name: Network Analysis	**Course Code: EC-305**
Students will be able to:	
CO1:	Define the circuit theory, basic circuit elements (R, L, & C) & their characteristics.
CO2:	Explain the concept of network graph theory.
CO3:	Analysis the different network theorem problems with dependent & independent sources.
CO4:	Analyzing the transient analysis in RL.RC, RLC circuit, use of Laplace Transform and define the standard signals.
CO5:	Analysis of two port network parameters (Z, Y, ABCD, h & g) & interconnection of two port network.

HOD EC