



BANSAL INSTITUTE OF RESEARCH & TECHNOLOGY, BHOPAL
Kokta Anand Nagar, Bhopal
DEPARTMENT OF ELECTRICAL & ELECTRONICS
ENGINEERING
COURSE OUTCOMES (COs)

Semester: IV

Course Name: Mathematics-III		Course Code: BT-401
Students will be able to:		
CO1:	Solve real and complex integrations about line and closed curve.	
CO2:	Solve Algebraic, Transcendental and simultaneous linear equations by numerical methods.	
CO3:	Evaluate differentiation and integration of tabular data.	
CO4:	Solution of ordinary differential equations by numerical methods and curve fitting	
CO5:	Test hypothesis and compute with key examples of discrete and continuous distributions.	

Course Name: Electrical Machine - I		Course Code: EX-402
Students will be able to:		
CO1:	Categories different transformers based on performance parameters like efficiency and regulation	
CO2:	Assess features of three phase transformer including construction and operation.	
CO3:	Illustrate application of three phase induction motor by evaluating the performance measures of induction motor.	
CO4:	Estimate behavior of different three phase induction motor under different load conditions and types of different power supply	
CO5:	Demonstrate and analyze the working of single phase induction motor compare with other	



Course Name: Digital Electronics & Logic Design (DELD)		Course Code: EX-403
Students will be able to:		
CO1:	Illustrate the concepts and techniques associated with the number systems and codes. to minimizes the logical expressions using Boolean postulates.	
CO2:	Design combinational circuits and sequential circuits for given problem.	
CO3:	Define the concept of memories and programmable logic devices.	
CO4:	Analyze different logic families and their comparative study.	
CO5:	Illustrate the concepts and techniques associated with the number systems and codes. to minimize the logical expressions using Boolean postulates.	

Course Name: Power System - I		Course Code: EX-404
Students will be able to:		
CO1:	Discover the concepts of power system and economic aspects of power system.	
CO2:	Illustrate the issues of electrical parameters R, L and C for transmission line and for underground cables.	
CO3:	Analyze and Design the parameters of transmission lines.	
CO4:	Formulate A.C and D.C distribution networks including necessary variable calculation.	
CO5:	Estimate performance of electrical power generation, transmission and usage .	



Course Name: Control System		Course Code: EX-405
Students will be able to:		
CO1:	Simplify mathematical modeling of dynamic systems.	
CO2:	Dissect time domain performance of closed loop system feedback control systems.	
CO3:	Interpret stability of closed loop system using root locus method.	
CO4:	Evaluate frequency domain analysis and stability using bode and Nyquist methods.	
CO5:	Design of different types of compensators networks (lag-lead) and Controller.	

Course Name: Computer Programming - II (Python)		Course Code: EX-406
Students will be able to:		
CO1:	Infer the salient features of Python	
CO2:	Build a program to perform various sort and search operations on numbers	
CO3:	Build a program to perform various matrix operations.	
CO4:	Build a program to perform various statistical operations.	
CO5:	Build a program to perform various operations on text read form a file	

**Approved By: -
Head of Department**