



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

Semester: VIII

Course Name: Electrical Drives		Course Code: EX-801
Students will be able to:		
CO1:	Examine various applications in industrial and domestic areas where use of electric drives are essential.	
CO2:	Classify types of electric drives systems based on nature of loads, control objectives, performance and reliability.	
CO3:	Combine concepts of previously learnt courses such as, electrical machines, control and power electronics to cater to the need of automations in industries	
CO4:	Select most suitable type and specification of motor drive combination for efficient conversion and control of electric power.	
CO5:	Design new control and power conversion schemes for implementing alternative solutions.	

Course Name: Departmental Elective (Power Quality Problems and Mitigation Techniques)		Course Code: EX-802 (A)
Students will be able to:		
CO1:	Distinguish the operation and characteristics of various types loads	
CO2:	Examine various applications of compensators	
CO3:	Select of the electrical machine as per the application requirement.	
CO4:	Design electrical circuit to control various electrical parameters of a machine.	
CO5:	Design electrical circuit to control various electrical parameters of compensators.	



Course Name: Open Elective (Environmental Issues, Policy, Standards & Regulations)		Course Code: EX-803 (B)
Students will be able to:		
CO1:	Investigate the different concepts of global environmental concerns and their implementation.	
CO2:	Examine the working strategies of different organizations and compare their activities for sustainable development.	
CO3:	Assess the different acts and policies related to the environment.	
CO4:	Analyze the different energy sources and their application.	
CO5:	Implement effective pollution prevention and waste minimization programs to reduce, reuse, and recycle materials.	

Course Name: D/O/E Lab (Simulation Lab)		Course Code: EX-804
Students will be able to:		
CO1:	Build an electrical system in terms of its differential equation, transfer function, magnitude response which is mutually convertible.	
CO2:	Evaluate mathematical expressions that can be used to estimate parameters from different types of data, for different models of electrical system.	
CO3:	Examine simulation of a continuous-time system by means of numerical integration.	
CO4:	Synthesize MATLAB code to simulate a given system or model.	
CO5:	Implement a suitable model for a given problem, making informed choices about the model type.	



Course Name: Major Project - II		Course Code: EX-805
Students will be able to:		
CO1:	Choose potential problem based on literature survey/impending industrial/real time needs.	
CO2:	Classify various solution methodologies to solve problem taken for study.	
CO3:	Judge the design steps or experimental procedure relevant to the problem.	
CO4:	Examine results and findings obtained.	
CO5:	Recommend solutions to potential engineering problems.	

**Approved By: -
Head of Department**

