



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

Semester: VI

Course Name: Power System - II		Course Code: EX-601
Students will be able to:		
CO1:	Outline the history of power system & its restructuring.	
CO2:	Formulate power flow, economy of power system & load flow computations.	
CO3:	Analyze the power systems in faulted conditions based on symmetrical components and sequence networks.	
CO4:	Demonstrate the transient stability of a power system.	
CO5:	Evaluate power dispatch to decrease power losses.	

Course Name: Microprocessor & Microcontroller		Course Code: EX-602
Students will be able to:		
CO1:	Recall and apply a basic concept of digital fundamentals to Microprocessor based personal computer system.	
CO2:	Identify a detailed s/w & h/w structure of the Microprocessor.	
CO3:	Illustrate how the different peripherals (8255, 8253 etc.) are interfaced with Microprocessor.	
CO4:	Distinguish and analyze the properties of Microprocessors & Microcontrollers.	
CO5:	Analyze the data transfer information through serial & parallel ports.	



Course Name: Departmental Elective (Utilization of Electrical Engineering)		Course Code: EX-603 (A)
Students will be able to:		
CO1:	Estimate the Illumination and extend it to different kinds of lamps.	
CO2:	Elaborate heating, welding & electrolysis.	
CO3:	Classify drives and Examine the techniques for braking system realization in traction.	
CO4:	Relate the electric vehicle characteristics with energy consumption.	
CO5:	Summaries the different kinds of electrical utility.	

Course Name: Open Elective (Electronic Instrumentation)		Course Code: EX-604 (A)
Students will be able to:		
CO1:	Utilize various electronic voltmeters and other electronic instruments, such as a CRO.	
CO2:	Select transducers for various applications.	
CO3:	Examine the signal generator & wave analyzer.	
CO4:	Decide the functions required from A/D and D/A converters in a design.	
CO5:	Analyze the given electrical & non-electrical input and interpret the output reading for it	



Course Name: Departmental Lab (Electronic Instrumentation Lab)		Course Code: EX-605
Students will be able to:		
CO1:	Utilize various electronic voltmeters and other electronic instruments, such as a CRO.	
CO2:	Select transducers for various applications.	
CO3:	Examine the signal generator & wave analyzer.	
CO4:	Decide the functions required from A/D and D/A converters in a design.	
CO5:	Analyze the given electrical & non-electrical input and interpret the output reading for it	

Course Name: Open Elective Lab (Simulation Lab)		Course Code: EX-606
Students will be able to:		
CO1:	Develop simulation and experiments.	
CO2:	Use the techniques, skills and modern engineering tools necessary for engineering practice.	
CO3:	Solve engineering problems with simulation.	
CO4:	Examine the parameters and waveforms of various circuits for economic operation	
CO5:	Perform simulation of various mathematical formulae & small circuits.	



Course Name: Minor Project - II		Course Code: EX-608
Students will be able to:		
CO1:	Select minor project topic based on acquired technical knowledge.	
CO2:	Identify problem through literature review.	
CO3:	Apply project management principles including legal and ethical aspects of project.	
CO4:	Propose the engineering solution to identified problem.	
CO5:	Compile the report in prescribe format to communicate their project ideas.	

**Approved By: -
Head of Department**