



**BANSAL INSTITUTE OF RESEARCH &
TECHNOLOGY, BHOPAL
Kokta Anand Nagar, Bhopal**

**DEPARTMENT OF ELECTRICAL &
ELECTRONICS**

COURSE OUTCOMES (COs)

Semester: II

Course Name: Engineering Physics		Course Code: BT-201
Students will be able to:		
CO1:	Review modern physics and their application by using basic concepts of quantum mechanics.	
CO2:	Learn and apply the basic concepts and properties of matter and waves in day to day life.	
CO3:	To learn the types of semiconductors and the role of carrier concentrations in conductivity using band theory of solids.	
CO4:	Review the use of lasers in engineering, science, medicines and in the communication systems through optical fiber.	
CO5:	Explain the concepts of electrostatics by using the concepts of electromagnetics, dielectrics and Maxwell's equations.	

Course Name: Mathematics-II		Course Code: BT-202
Students will be able to:		
CO1:	Explain the basic concept of Ordinary Differential Equation.	
CO2:	Describe various methods of solving First and Higher Order Differential Equations.	
CO3:	Classify linear and non-linear PDE and their formations. and Apply various Characteristic Methods to obtain solutions to PDEs of first and second order, which occur in science and engineering.	
CO4:	Explain the principal Techniques and Methods of Complex Function Theory.	
CO5:	Develop the Fundamental Concept of Vector Calculus.	



**BANSAL INSTITUTE OF RESEARCH &
TECHNOLOGY, BHOPAL
Kokta Anand Nagar, Bhopal**

**DEPARTMENT OF ELECTRICAL &
ELECTRONICS**

Course Name: Basic Mechanical Engineering		Course Code: BT-203
Students will be able to:		
CO1:	Classify engineering materials on the basis of its nature and learn different mechanical properties through different test on materials.	
CO2:	Articulate the measurements and measuring devices used in industrial production engineering	
CO3:	Employ the concept of fluid characteristics & properties in machine components and its working	
CO4:	Administer the properties of flowing fluids within or over the flow & thermal systems through specific laws & processes involved.	
CO5:	Appraise the working efficiency of fuel & air based engines using relevant diagrams & properties	

Course Name: Basic Civil Engineering & Mechanics		Course Code: BT-204
Students will be able to:		
CO1:	Identify and differentiate various construction materials and techniques used in building construction by studying test properties and uses of materials.	
CO2:	Explain the concept and different techniques of surveying used in surveying by linear and angular measurements.	
CO3:	Estimate and understand the process of surveying and mapping in civil engineering along with the understanding of remote sensing.	
CO4:	Explain the concept of the system of forces used in civil engineering.	
CO5:	Describe the importance of effects of load applied in structure and its analysis.	



**BANSAL INSTITUTE OF RESEARCH &
TECHNOLOGY, BHOPAL
Kokta Anand Nagar, Bhopal**

**DEPARTMENT OF ELECTRICAL &
ELECTRONICS**

Course Name: Basic Computer Engineering		Course Code: BT-205
Students will be able to:		
CO1:	Illustrate the concepts of basics of computer and it's modern day uses and technology related applications.	
CO2:	Recognize the concepts of programming to solve the given problems and to learn the uses of programming in engineering fields.	
CO3:	Illustrate and illustrate the concepts of Object Oriented Programming along with the uses of data structure.	
CO4:	Identify the concept of computer networking with it's devices used for networking and the need of securing the network.	
CO5:	Associate the description of database management system and techniques of data storage using cloud computing along with its application in modern day life.	

Course Name: Language Lab & Seminars		Course Code: BT-206
Students will be able to:		
CO1:	Able to Introduce himself on professional grounds.	
CO2:	Communicate effectively, when given platform for public speaking and extempore.	
CO3:	Demonstrate comprehension skills and proficiency in reading.	
CO4:	Convey the read matter in written form through book reviews and comment on the read material.	
CO5:	Learn conversation through Role plays.	

**Approved By: -
Head of Department**