



**BANSAL INSTITUTE OF RESEARCH AND TECHNOLOGY,
BHOPAL**

Kokta Anand Nagar, Bhopal



**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**

COURSE OUTCOMES (COs)

Semester: I

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 electromagnetic, dielectrics and Maxwell's equations.	

Course Name: Mathematics-I		Course Code: BT-102
Students will be able to:		
CO1:	Understand the complete knowledge of differential calculus involving fundamental tools.	
CO2:	Apply the application of double integration and triple integration in finding the area and volume.	
CO3:	Discuss the convergence of series by various testing methods.	
CO4:	Interpret algebraic and geometric representations of vectors and perform common matrix operations in vector space.	
CO5:	Solve linear systems of equations using the language of matrices.	



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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.	



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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.	

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