



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



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE OUT COMES (COs)

Semester: IV

Course Name: Mathematics- III		Course Code:BT-401
Students will be able to:		
CO1:	Solve real and complex integrations over line and closed curves.	
CO2:	Solve algebraic, transcendental, and simultaneous linear equations using numerical methods.	
CO3:	Evaluate the differentiation and integration of tabular data.	
CO4:	Solve ordinary differential equations using numerical methods and perform curve fitting.	
CO5:	Test hypotheses and compute key examples of discrete and continuous distributions.	

Course Name: Analysis Design of Algorithm		CourseCode:CS-402
Students will be able to:		
CO1:	Survey the basics of algorithm design techniques.	
CO2:	Solve problems by applying appropriate methods.	
CO3:	Estimate the performance of various algorithm design techniques.	
CO4:	Illustrate backtracking and Branch-and-Bound algorithms.	
CO5:	Determine various approaches to constructing trees and graphs.	



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Course Name: Software Engineering		CourseCode:CS-403
Students will be able to:		
CO1:	Analyze the software engineering process life cycle.	
CO2:	Be able to elicit, analyze, and specify software requirements through a productive working relationship with various stakeholders of the project.	
CO3:	Analyze and translate a specification into a design and then realize that design practically using an appropriate software engineering methodology.	
CO4:	Write how to develop the code from the design, effectively apply relevant standards, and perform testing.	
CO5:	Evaluate the use of modern engineering tools necessary for software project management, time management and software reuse.	

Course Name: Computer Organization & Architecture		Course Code: CS-404
Students will be able to:		
CO1:	Understand the structure, function, and characteristics of computer systems.	
CO2:	Illustrate the design of context-free grammars for any language set.	
CO3:	Identify the elements of modern instruction sets and their impact on processor design.	
CO4:	Explain the function of each element of a memory hierarchy.	
CO5:	Design and analyze combinational circuits.	



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Course Name: Operating Systems		CourseCode:CS-405
Students will be able to:		
CO1:	Explain the structure, services, types, characteristics, and functions of operating systems.	
CO2:	Describe the structure and organization of the file system and its allocation methods. Also understand the different disk scheduling algorithms.	
CO3:	Illustrate the main principles and techniques used to implement processes and threads, as well as the different algorithms for process scheduling, and describe different approaches to memory management.	
CO4:	Analyze the input/output problems, operations, and the main problems related to concurrency and the different synchronization mechanisms.	
CO5:	Conduct a case study of UNIX/Linux, Windows, and different operating systems.	

Course Name: Programming Practices		Course Code: CS-406
Students will be able to:		
CO1:	Describe the basic concepts and techniques of OOPs and how Java is different from other programming languages.	
CO2:	Discuss how to use exception handling in Java applications.	
CO3:	Identify and apply Java language components and how they work together in applications.	
CO4:	Design and develop packages used in Java applications.	



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Course Name: Internship II		Course Code: BT-407
Students will be able to:		
CO1:	Express the application of knowledge and skill sets acquired from the course and workplace in the assigned job function.	
CO2:	Solve real-life challenges in the workplace by analyzing the work environment and conditions and selecting appropriate skill sets acquired from the program.	
CO3:	Discuss and collaborate effectively and appropriately with different professionals in the work environment through written and oral means.	
CO4:	Express professional ethics by displaying a positive disposition during the internship.	

**Approved By:-
Head of Department**