



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



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE OUT COMES (COs)

Semester: VI

Course Name: Machine Learning		Course Code: CS 601
Students will be able to:		
CO1:	Analyze the basic mathematics behind supervised machine learning models along with various applications in the real world.	
CO2:	Create and evaluate the unsupervised machine learning models through various clustering algorithms.	
CO3:	Evaluate the machine learning models preprocessed through various feature engineering algorithms.	
CO4:	Apply reinforcement learning algorithms to solve real-time, complex problems while understanding the trade-offs involved.	
CO5:	Design the recommendation system using natural language processing.	

Course Name: Computer Networks		Course Code: CS-602
Students will be able to:		
CO1:	Analyze the essential components needed for networks and the services provided by the link layer in a concise manner.	
CO2:	Classify Various Flow Control and error control methods used in node-to-node communication.	
CO3:	Classify the Media Access Control Protocols and different Internetworking protocols.	
CO4:	Demonstrate various types of routing techniques.	
CO5:	Design and create traditional networks.	



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



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Name: Departmental Elective I		(Compiler Design) Course Code: CS 603 (C)	
Students will be able to:			
CO1:	Articulate the knowledge of different phases and passes of the compiler and also be able to use the compiler tools and design different types of compiler tools to meet the requirements of the realistic constraints of compilers.		
CO2:	Illustrate the concept of the parser and its types i.e. Top-Down and bottom-up parsers and the construction of LL, SLR, CLR, and LALR parsing tables.		
CO3:	Analyze the type-checking system and run-time environment mechanism.		
CO4:	Classify the different techniques for intermediate code generation and optimization techniques		
CO5:	Justify the run time data structure like symbol table organization and different techniques used in that		

Course Name: Open Elective I (Project Management)		Course Code: CS-604 (B)
Students will be able to:		
CO1:	Analyze the evolution and improvement of software economics and the modern software management process.	
CO2:	Evaluate the objectives, activities and evaluation criteria of the various phases of the life cycle of the software management process.	
CO3:	Apply the knowledge about the various artifacts, workflows and checkpoints of the software management process.	
CO4:	Explain the design concept using model-based architecture from technical and management perspective.	
CO5:	Apply the concept of project planning, organization, responsibilities, automation and control of the processes to achieve the desirable results.	



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



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Name: Data Analytics Lab		Course Code: CS 605
Students will be able to:		
CO1:	Explain the basics of data analytics using concepts of statistics and probability.	
CO2:	Explore the needs of data processing techniques.	
CO3:	Implement the data analytics techniques using R, MATLAB, and Python.	
CO4:	Apply the data analytics techniques in real-life applications	

Course Name: Skill Development Lab		Course Code: CS 606
Students will be able to:		
CO1:	Understand the basics of software as a product	
CO2:	Understand the current requirements of industries	
CO3:	Implement the software as a product using different design patterns.	
CO4:	Apply the software development techniques in real-life applications.	



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



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Name: Internship III		Course Code: CS 607
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.	

Course Name: Minor Project II		Course Code: CS 608
Students will be able to:		
CO1:	Practice acquired knowledge within the chosen area of technology for project development.	
CO2:	Identify, discuss and justify the technical aspects of the chosen project with a comprehensive and systematic approach.	
CO3:	Reproduce, improve and refine technical aspects for engineering projects.	
CO4:	Communicate and report effectively on project-related activities and findings.	

**Approved By:-
Head of Department**