

Madhav Institute of Technology & Science, Gwalior- 474 005

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Computer Science Engineering

Year 2021-2025

Semester	Course Outcome
Semester 1	100015:Energy, Environment, Ecology & Society
	CO1 List and describe various energy resources, their conversion to electrical power and role in technological & economic development
	CO2 Update themselves with national/international power status and renewable power development targets & missions
	CO3 Understand the impact of pollution on the ecosystem and control policies adopted atnational/international levels
	CO4 Illustrate the concepts of ecosystems and their conservation
	CO5 Solve practical problems of society in a sustainable and ethical manner
	CO6 Fulfill their professional duties keeping in mind the environmental safety, health, and welfare of public.
	230102: Introduction to Computer Programming
	CO1 Identify situations where computational methods and programming would be useful.
	CO2 implement the basic principles of imperative and structural programming.
	CO3 Develop a pseudo-code and flowchart for a given problem.
	CO4 Analyze the problems and choose suitable programming techniques to develop solutions.
	CO5 Design, implement, debug and test programs.
	CO6 Design computer programs to solve real world problems.
	150111:IT Workshop
	CO1 Understand the basic concept and structure of application software
	CO2 Identify the existing configuration of the computers and peripherals.
	CO3 Integrate the PCs into local area network and re-install operating system and various application programs.
CO4 Design and develop basic web pages using HTML and CSS.	
CO5 Design & create and implement a static and dynamic webpage	
CO6 Design and implement a program to solve a real world problem.	
Semester 2	290201: Digital Electronics
	CO1 explain the computer architecture for defining basic component and functional unit
	CO2 recall different number system and solve the basic arithmetic operations
	CO3 develop the understanding of combinational circuits.
	CO4 analyze the basic concept of sequential circuits.
	CO5 compare various memories.
	CO6 solve the boolean functions using logic gates.
	290202:Data Structures
	CO1 Outline the basics of algorithms and their performance criteria.
	CO2 Explain the working of linear and non-linear data structures.
	CO3 Identify the appropriate data structure to solve the specific problems.
	CO4 Analyse the performance of various data structures and their applications.
	CO5 Evaluate the time and space complexities of various data structures and their applications.
	CO6 Design the optimal algorithmic solutions for various problems
	290203: Object Oriented Programming and Methodology
	CO1 Relate the concepts and significance of OOPs in real world.
	CO2 Demonstrate adeptness of object oriented programming to solve problems using Object oriented concepts
	CO3 Apply object oriented programming to develop solutions of problems using standard language constructs.
CO4 Analyze data flow diagrams and flow charts for small/ moderate problems	
CO5 Determine how to simulate the problem in field of Operating system, Computer networks and real world problems.	
CO6 Develop software using concepts of objects, associations and integrity constraint.	