

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

## Department of Computer Science and Engineering

Change in Syllabus and Scheme for B.Tech Computer Science and Design(2021-2022)

SEMESTER	Proposed		2021-2025 BATCH		Change	Overall Percentage Change	Percentage change in syllabus	Change due to change in content
	COURSE CODE	COURSE NAME	COURSE CODE	COURSE NAME				
I	Course 1	Digital Logic Design	290101	Introduction to Computer Science and Design	Yes			
	Course 2	Introduction to Computer Programming	230102	Introduction to Computer Programming	NO			
	Course 3	Engineering Drawing	100022	Basic Electrical & Electronics Engineering	NO			
	Course 4	Energy, Environment, Ecology & Society	250100	Linear Algebra	Yes			
	Course 5	Technical Language and Lab	100015	Energy, Environment, Ecology & Society	NO			
						<b>3.571428571</b>		
II	Course 6	Object Oriented Analysis and Design	250106	Probability and Random Process	Yes			
	Course 7	Numerical Methods and Simulation Techniques	290201	Digital Electronics	NO			
	Course 8	Computer Graphics	290202	Data Structures	NO			
	Course 9	Data Structures	290303	Object Oriented Programming and Methodology	NO			
	Course 10	Computer System Architecture	100016	Technical Language	Yes			
	Course 11	Python Programming Lab	100017	Language Lab	Yes			
						<b>5.357142857</b>		
	Course 12	Discrete Mathematics	290301	Discrete Structures	NO			
	Course 13	Operating Systems	290302	Design and Analysis of Algorithms	NO			
	Course 14	Design and Analysis of Algorithms	290303	Operating System	NO			
	Course 15	Database Management System	290304	Computer System Organization	NO			

III	Course 16	Computer Networks	290305	Computer Graphics and Animation	NO			
	Course 17	Computer Network Designing and Modeling Lab.	290306	Digital Circuit Design Lab	Yes			
	Course 18	Self-learning/Presentation (through SWAYAM/NPTEL/MOOC)# or Interdisciplinary course from other institutions and platforms with credit transfer	290307	Self Learning Presentation(SWYAM/NPTEL/MOOC)	Yes			
	Course 19	Summer Internship Project-I (Institute Level) (Evaluation)	200XXX	Novel Engaging Course	Yes			
			290308	Summer Internship Project-I (Institute Level) (Evaluation)	NO			
			1000005	Process Management and Fincancing	Yes			
						<b>7.142857143</b>		
IV	Course 20	Software Engineering	290401	Web Technologies	NO			
	Course 21	Multimedia Computing and Applications	290402	Database Management System	NO			
	Course 22	Website Designing and Publishing	290403	Theory of Computation	NO			
	Course 23	Software Modeling and Design	290404	Computer Networks	NO			
	Course 24	Theory of Computations	290405	Programming Lab Python Programming	Yes			
	Course 25	Virtual Reality	200XXX	Novel Engaging Course	Yes			
	Course 26	Video Editing & Photography Lab.	1000001	Indian Constitution and Traditional Knowledge	Yes			
						<b>5.357142857</b>		
	Course 27	Ethics, Economics, Entrepreneurship & Management		Ethics, Economics, Entrepreneurship & Management	NO			
	Course 28	User Interface Design & Usability		User Interface Design & Usability	NO			
	Course 29	Animation Principles and Design		Animation Principles and Design	NO			

V	Course 30	Hardware Modeling		Hardware Modeling	NO			
	Course 31	Compiler Design		Compiler Design	NO			
	Course 32	Minor Project-I**		Minor Project-I**	NO			
	Course 33	Summer Internship Project-II (Evaluation)		Summer Internship Project-II (Evaluation)	NO			
	Course 34	Self learning/Presentation (SWAYAM/NPTEL/ MOOC)		Self learning/Presentation (SWAYAM/NPTEL/ MOOC)	NO			
						0		
VI	Course 35	Artificial Intelligence and Game Designing		Artificial Intelligence and Game Designing	NO			
	Course 36	Machine Learning		Machine Learning	NO			
	Course 37	Departmental Elective-1		Departmental Elective-1	NO			
	Course 38	Departmental Elective-2*		Departmental Elective-2*	NO			
	Course 39	Open Category-1		Open Category-1	NO			
	Course 40	Disaster Management		Disaster Management	NO			
	Course 41	Minor Project-II**		Minor Project-II**	NO			
						0		
VII	Course 42	Departmental Elective-3		Departmental Elective-3	NO			
	Course 43	Departmental Elective-4		Departmental Elective-4	NO			
	Course 44	Open Category-2		Open Category-2	NO			
	Course 45	Open Category-3		Open Category-3	NO			
	Course 46	Intellectual Property Rights (IPR)		Intellectual Property Rights (IPR)	NO			
	Course 47	Internet of Things (IoT) Lab.		Internet of Things(IoT) Lab.	NO			
	Course 48	Summer Internship Project-III (04 weeks)(Evaluation)		Summer Internship Project-III (04 weeks)(Evaluation)	NO			
	Course 49	Creative Problem Solving (Evaluation)		Creative Problem Solving (Evaluation)	NO			
						0		
	Course 50	Departmental Elective-5		Departmental Elective-5	NO			

VIII	Course 51	Open Category-4		Open Category-4	NO			
	Course 52	Open Category-5*		Open Category-5*	NO			
	Course 53	Internship/Project		Internship/Project	NO	<b>0</b>		
	Course 54	Professional Development		Professional Development	NO			
				<b>Total Change</b>	<b>21.42857143</b>	<b>21.42857143</b>		
							OVERALL PERCENTAGE CHANGE	<b>21.42857143</b>
<b>OLD SYLLABUS</b>			<b>REVISED SYLLABUS</b>					