

# ADHAW INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

## B. Tech in Computer Science and Design

### I Semester

For Batches admitted in Academic Session 2021-22 on wards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam.
				Theory Slot				Practical Slot				L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem Exam	Continuous Evaluation								
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project							
1.	290101	DC	Introduction to Computer Science and Design	50	10	20	20	-	-	-	100	4	-	-	4	Blended (3/1)	MCQ
2.	230102	DC	Introduction to computer programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	AO
3.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	MCQ
4.	250100	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP
5.	100015	HSMC	Energy, Environment, Ecology & Society	50	10	20	20	-	-	-	100	3	-	-	3	Online	MCQ
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>14</b>	<b>3</b>	<b>4</b>	<b>19</b>		

Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.

<sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/skill/competence/knowledge level/expertise attained etc. in that particular course/subject

MCQ: Multiple Choice Question AO: Assignment + Oral

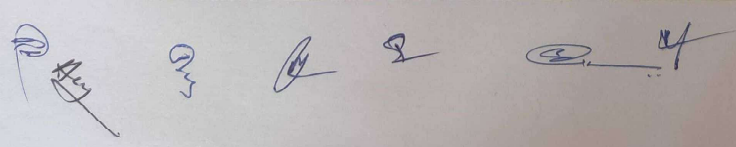
OB: Open Book

PP: Pen Paper

SO: Submission & Oral

CLC: College level course

Mode of Teaching					Mode of Examination					Total Credits	
Theory		Blended		Lab	Theory			Lab	SIP/SLP/NEC		
Offline	Online	Offline	Online	Offline	Interactive	PP	A+O	MCQ	SO		
4	3	7	3	2	-	4	4	11	-	-	19
21.05	15.78	36.84	15.78	10.52	-	21.05	21.05	57.89	-	-	Credits %



**B. Tech in Computer Science and Design**

**II Semester**

For Batches admitted in Academic Session 2021-22

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam.
				Theory Slot				Practical Slot				L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem Exam	Continuous Evaluation								
				End Sem. Exam	Proficiency in subject/course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project							
1.	250106	BSC	Probability and Random Process	50	10	20	20	-	-	100	3	1	-	4	Offline	PP	
2.	290201	DC	Digital Electronics	50	10	20	20	-	-	100	2	1	-	3	Blended (2/1)	PP	
3.	290202	DC	Data Structures	50	10	20	20	60	20	20	700	3	-	2	4	Blended (2/1)	PP
4.	290203	DC	Object Oriented Programming and Methodology	50	10	20	20	60	20	20	200	3	-	2	4	Blended (2/1)	AO
5.	100016	HSMC	Technical Language	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
6.	100017	HSMC	Language Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>13</b>	<b>3</b>	<b>6</b>	<b>19</b>		

Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.

MCQ: Multiple Choice Question AO: Assignment + Oral OB: Open Book PP: Pen Paper SO: Submission & Oral CLC: College level course, 01 Theory Period=1 Credit; 02 Practical Periods =1 Credit

<sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance, one minute paper writing etc. in that particular course/subject

Mode of Teaching				Mode of Examination							Total Credits
Theory		Blended		Lab	Theory			Lab	SIP/ SLP/ NEC		
Offline	Online	Offline	Online	Offline	Interactive	PP	A+O	MCQ	SO	SO	
4	-	8	4	3	-	14	4	-	1	-	19
21	-	42	21	16	-	74	21	-	5	-	Credits %

**MADHAVINSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

**Scheme of Examination**  
**B.Tech.in Computer Science and Design**  
**Semester III**

*for batches admitted in academic session 2021-22*

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam
				Theory Slot				Practical Slot				L	T	P			
				End Sem.		Mid Sem.	Quiz/Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project							
				End Term Evaluation	Proficiency in subject /course												
1.	290301	DC	Discrete Structures	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP
2.	290302	DC	Design & Analysis of Algorithms	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	290303	DC	Operating Systems	50	10	20	20	-	-	-	100	3	-	-	3	Blended (2/1)	PP
4.	290304	DC	Computer System Organization	50	10	20	20	-	-	-	100	3	-	-	3	Blended (2/1)	PP
5.	290305	DC	Computer Graphics and Animation	50	10	20	20	60	20	20	200	3	-	2	4	Blended (2/1)	PP
6.	290306	DLC	Digital Circuit Design Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO
7.	290307	DLC	Self-learning/Presentation (SWAYAM/ NPTEL/MOOC)	-	-	-	-	-	40	-	40	-	-	2	1	Online and Mentoring	SO
8.	200XXX	CLC	Novel Engaging Course	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	290308	DLC	Summer Internship Project-I (Institute Level)(Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>290</b>	<b>100</b>	<b>60</b>	<b>950</b>	<b>14</b>	<b>2</b>	<b>14</b>	<b>23</b>	-	-
10.	1000005	MAC	Project Management and Financing	50	10	20	20	-	-	-	100	2	-	-	GRADE	Online	MCQ

<sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained etc. in that particular course/subject

<sup>SS</sup>MCQ: Multiple Choice Question <sup>SS</sup>AO: Assignment + Oral <sup>SS</sup>OB: Open Book <sup>SS</sup>PP: Pen Paper SO: Submission & Oral

Mode of Teaching				Mode of Examination							Total Credits
Theory		Lab	NEC	Theory			Lab	SIP/ SLP/NEC			
Offline	Online	Blended		Offline	Interactive	PP	A+O	MCQ	SO	SO	
		Offline	Online								
4	-	8	4	6	1	18	-	-	1	4	23
17.39	-	34.78	17.39	26.08	4.34	78.26	-	-	4.34	17.39	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Scheme of Examination

B.Tech. IV Semester (Computer Science and Design)

**For batches admitted in Academic Session 2021-22 Onwards**

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam
				Theory Slot				Practical Slot				L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem.	Continuous Evaluation								
				End Term Evaluation	Proficiency in subject/course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill based mini project							
1.	290401	DC	Web Technologies	50	10	20	20	60	20	20	200	3	-	2	4	Blended (2/1)	PP
2.	290402	DC	Database Management System	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	290403	DC	Software Engineering	50	10	20	20	-	-	-	100	3	-	-	3	Blended (2/1)	MCQ
4.	290404	DC	Theory of Computation	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
6.	290405	DC	Computer Networks	50	10	20	20	-	-	-	100	3	-	-	3	Blended (2/1)	PP
5.	290406	DLC	Programming Lab Python Programming	-	-	-	-	60	20	20	100	-	-	4	2	Offline	SO
7.	2000XXX	CLC	Novel engaging courses					50	-	-	50	-	-	2	1	Interactive	SO
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>230</b>	<b>60</b>	<b>60</b>	<b>850</b>	<b>13</b>	<b>2</b>	<b>10</b>	<b>20</b>		
8.	1000001	MAC	Indian Constitution and Traditional Knowledge (Mandatory Audit Course) <sup>SS</sup>	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ
Summer Internship Project-II (Soft skills Based) for two weeks duration: Evaluation in V Semester																	

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission & Oral    CLC: College level course

<sup>3</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance ,one minute paper writing etc. in that particular course/subject,SS Course will run for Group A/B in III/IV semester respectively.

Mode of Teaching				Mode of Examination							Total Credits
Theory		Blended	Lab	Theory			Lab	SIP/ SLP/ NEC			
Offline	Online			Offline	Interactive	PP		A+O	MCQ	SO	
-	-	10	5	4	1	14	-	3	2	1	20
-	-	50	25	20	5	70	-	15	10	5	Credits %