

Madhav Institute of Technology & Science, Gwalior



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.)
 (A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
 NAAC Accredited with A+ + Grade

Department of Computer Science and Engineering Scheme of Evaluation

B. Tech. VIII Semester (Computer Science and Engineering)

(for batch admitted in academic session 2020-21)

S	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Online, Offline, Blended)	Mode of Exam		
				Theory Slot				Practical Slot		MOOCs		L	T	P					
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									Assignment	Exam
				End Sem. Exam.	Proficiency in subject/course	Mid Sem. Exam.	Quiz/Assignment		Lab work & Sessional	Skill Based Mini Project									
1.	DF	DE	Departmental Elective* (DE-5)	-	-	-	-	-	-	-	25	75	100	3	-	-	3		
2.	OC	OC	Open Category* (OC-3)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	MCQ
3.	150811	DLC	Internship/Research Project/ Innovation & Start-up	-	-	-	-	250	150	-	-	-	400	-	-	18	9	Offline	SO
4.	150812	-	Professional Development	-	-	-	-	50	-	-	-	-	50	-	-	4	2	-	-
Total				-	-	-	-	300	150	-	50	150	650	6	-	22	17	-	-
Additional Course for Honours or minor Specialization				Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization															

MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral

*All of these courses will run through SWAYAM/NPTEL/ MOOC with credit transfer

* Evaluation will be based on participation/laurels brought by the students to the institution in national/state level technical and other events during the complete tenure of the UG programme (participation in professional chapter activities, club activities, cultural events, sports, personality development activities, collaborative events, MOOCs, technical events, institute/department)

Mode of Teaching					Mode of Examination					Total Credits
Theory			Lab	PD	Theory			Lab	NEC	
Offline	Online	Blended	Offline	Interactive	PP	AO	MCQ	SO	SO	
-	-	06	09	02	-	-	06	09	02	17
-	-	35.29%	52.95%	11.76%	-	-	35.29%	52.95%	11.76%	Credits %

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*DE-5 (SWAYAM/NPTEL/ MOOC platform)		*Open Category (OC-3) (SWAYAM/NPTEL/ MOOC platform) (For students of other branches)	
150861	GPU Architecture and Programming (noc24-cs30) -12 week		Data Analytics with Python (noc24-cs20)-12 WEEK
150862	Introduction To Soft Computing (noc24-cs37)-12 week		Advanced Computer Networks (noc24-cs11)-12 WEEK
150863	Selected Topics in Algorithms (noc24-cs46)-12 week		Affective Computing (noc24-cs12)-12 week

*Minor (SWAYAM/NPTEL/ MOOC platform) (For students of other branches)		*honors (SWAYAM/NPTEL/ MOOC platform)	
1	An Introduction to Artificial Intelligence(noc24-cs08)- 12week	1	Edge Computing(noc24-cs66)-8week
2	Introduction To Internet Of Things(noc24-cs35)-12 week	2	Business Intelligence & Analytics(noc24-cs65)-12 week
3	Introduction to Automata, Languages and Computation(noc24-cs32)- 12week	3	Games and Information(noc24-cs64)-12week

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Department of Computer Science & Engineering

Scheme of Evaluation

B. Tech. VI Semester (Computer Science & Engineering)

(for batch 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	Mode of Exam.	
				Theory Slot				Practical Slot		MOOCs			L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assignment								Exam
				End Sem. Exam.	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab work & Sessional	Skill Based Mini Project									
1.	150615	DC	Cloud Computing & Virtualization	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Offline	PP
2.	150616	DC	Digital Image Processing	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Offline	PP
3.		DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ
4.		OC	Open Category (QC-1)**	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Offline	PP
5.	150617	DC	Machine Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Offline	PP
6.	150618	DLC	Minor Project-II	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO
7.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Interactive	SO
Total				200	40	80	80	290	100	60	25	75	950	15	-	12	21	-	-
8.	1000007	MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Online	MCQ

Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester

Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

Additional Course for Honours or minor Specialization

^SProficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.
^{SS}MCQ: Multiple Choice Question, ^{SS}AO: Assignment + Oral, ^{SS}PP: Pen Paper, ^{SS}SO: Submission + Oral, *Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform with credit transfer, ** Course run in traditional mode, *This course run through SWAYAM/NPTEL/ MOOC platform

Mode of Teaching				Mode of Examination						Total Credits	
Theory		Blended		Lab	Theory			Lab	NEC		
Offline	Online	Offline	Online	Offline	Interactive	PP	A+O	MCQ	SO		
12	3	-	-	5	1	15	-	3	2	1	21
57.14	14.28	-	-	23.8	4.76	71.42	-	14.28	9.52	4.76	

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B. Tech. VI Semester (Computer Science & Engineering)



*DE-1 (SWAYAM/NPTEL/ MOOC platform)		**Open Category (OC-1)(For students of other branches)	
150671	User-centric Computing For Human-Computer Interaction(noc24-cs50)-8 week	910100	Data Structures
150672	Digital Design with Verilog (noc24-cs61)-12 week	910101	Python Programming
150673	Getting Started with Competitive Programming (noc24-cs30)-12 week		

*Minor (SWAYAM/NPTEL/ MOOC platform) (For students of other branches)		*Honours (SWAYAM/NPTEL/ MOOC platform)	
1	Programming in Modern C++(noc24-cs44)- 12week	1	Track1-Information Security 1. Information Security - 5 - Secure Systems Engineering(noc24-cs31)-12 week 2. Foundations of Cryptography(noc24-cs01)-12week
2	Introduction To Internet Of Things(noc24-cs35)-12 week	2	Track 2-IoT 1. Introduction To Industry 4.0 And Industrial Internet Of Things (noc24-cs34)-12 week 2. Sensors and Actuators(noc24-ee45)-12 week
3	Introduction to Automata, Languages and Computation(noc24-cs32)-12week	3	Track 3- High Performance Computing 1. Parallel Computer Architecture(noc24-cs63)-12 week 2. Basics of Computational Complexity (noc24-cs05)-12 week

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Department of Computer Science and Engineering
Scheme of Examination

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

For batches admitted in Academic Session 2022-23 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.	2150411	DC	Computer Networks	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP
2.	2150412	DC	Optimization Techniques	50	10	20	20	-	-	-	200	2	1	-	3	Blended	PP
3.	2150413	DC	Data Mining & Warehousing	50	10	20	20	60	20	20	100	3	-	2	4	Blended	PP
4.	2150414	DC	Theory of Computation	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
5.	2150415	DC	Artificial Intelligence	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP
6.	2150416	DLC	Programming Lab	-	-	-	-	60	20	20	100	-	-	4	2	Offline	SO
7.	2000XXX	CLC	Novel engaging courses	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
Total				250	50	100	100	230	60	60	850	13	2	10	20		
8.	1000001	MAC	Indian Constitution and Traditional Knowledge	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ
9.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	Grade	Blended	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
 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		Lab	NEC	Theory		Lab	SIP/SLP/NEC		
Offline	Online	Offline	Interactive	PP	A+O	MCQ	SO		
								20	
		10	5	4	1	17	-	2	
		50	25	20	5	85	-	10	
								Credits %	

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Department of Computer Science and Engineering Scheme of Evaluation

B. Tech. II Semester (Computer Science and Engineering)

(for batch admitted in academic session 2023-24)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration 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.	3150221	DC	Data Structures	50	10	20	20	40	30	30	200	2	1	2	4	Blended	PP	2 Hrs
2.	3150222	DC	Object Oriented Programming & Methodology	50	10	20	20	40	30	30	200	3	-	2	4	Blended	AO	2 Hrs
3.	3150223	DC	Computer System Organization	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	3150224	DC	Computer Graphics	50	10	20	20	40	30	30	200	3	-	2	4	Blended	PP	2 Hrs
5.	3100025	BSC	Engineering Mathematics -II	50	10	20	20	-	-	-	100	3	-	-	3	Offline	PP	2 Hrs
6.	3150225	DLC	Hardware and Troubleshooting Lab	-	-	-	-	40	30	30	100	-	-	2	1	Offline	SO	-
Total				250	50	100	100	160	120	120	900	13	02	08	19	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

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.

Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject
 Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science / Language

MCQ: Multiple Choice Question AO: Assignment Natural Sciences & Skills + Oral OB: Open Book PP: Pen Paper SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory		Lab		Theory			Lab	
Offline	Online	Blended		Offline	PP	AO	MCQ	
		Offline	Online					
3	-	8	4	4	14	4	-	1
16		42	21	21	74	21		5
								19
								Credit %