



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed University)
(Declared Under Distinct Category by Ministry of Education, Government of India)



NAAC Accredited with A++ Grade

Department of Computer Science and Engineering

Semester-Wise General Scheme Structure & Important Guidelines for Flexible Curriculum

(Batch admitted in Academic Session 2024-25 onwards)

Abbreviations Used

L	Lecture
T	Tutorial
P	Practical
HSMC	Humanities and Social Sciences including Management Courses
BSC	Basic Science Courses
ESC	Engineering Science Courses
DC	Departmental Core
DE	Departmental Elective
SPC	Specialization Courses
OC	Open Category
DLC	Departmental Laboratory Courses
MOOC	Massive Open Online Course
MWS	Mandatory Workshop
SP	Semester Proficiency
SIP	Skill Internship Program
SLP	Self-learning Presentation
PDC	Professional Development Component
PBL	Project Based Learning
PC	Professional Certification
MAC	Mandatory Audit Course
NEC	Novel Engaging Course



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Department of Computer Science and Engineering
Scheme of Evaluation

B. Tech. I Semester (*Computer Science and Engineering*) (for batch admitted in academic session 2024-25)

S. No.	Course Code	Category Code	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Exam.	Duration of Major Exam.
				Theory Block				Practical Block			L	T	P				
				Continuous Evaluation			Major Evaluation	Continuous Evaluation	Major Evaluation								
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional									
1.	15241101	DC	Emerging Technologies in Computer Science	20	20	30	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	15241102	ESC	Computer Programming	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
3.	15241103	DC	Digital Electronics	20	20	30	30	-	-	100	2	1	-	3	Face to Face	pp	2 Hrs
4.	15241104	DC	Cyber World and Security Concern	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	15241105	BSC	Engineering Mathematics-I	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
6.	15241106	DLC	Computer Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	15241107	DLC	Digital Electronics Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	15241108	SP	Semester Proficiency ^S	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	15241109	PBL	Micro Project-I [#]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	15241110	HSMC	Language Lab	-	-	-	-	70	30	100	-	-	2	1	Blended	AO	-
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
Total				100	100	150	150	380	120	1000	12	03	10	20	-	-	-
12.	15241112	MAC	Universal Human Values & Professional Ethics (UHVPE)	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
13.	15241113	MWS	Mandatory Workshop on Indian Constitution and Traditional Knowledge at Department Level (Duration: Two Days)											GRADE	Interactive	MCQ	-
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.																	
Skill Internship Program (Soft Skill): Minimum 45 hours duration: To be Created in II Semester.																	

^SSemester Proficiency-- includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

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

[#] Micro Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	1	1	3	0	0	0	2	1	1	0	0	0	1	1	1



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Mode of Learning							Mode of Examination							Total Credits
Theory		Lab				NEC	Theory				Lab		NEC	
Face to Face	Online	Face to Face	Blended	Experiential	Experimental	Interactive	PP	AO	MCQ	OB	SO	AO	SO	
14		1	1	1	2	1	6		8		2	3	1	20
70		5	5	5	10	5	30		40		10	15	5	Credits %



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Scheme of Evaluation

B. Tech. II Semester (*Computer Science and Engineering*) (for batch admitted in academic session 2024-25)

S. No.	Course Code	Category Code	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Exam.	Duration of Major Exam.	
				Theory Block					Practical Block									
				Continuous Evaluation			Major Evaluation	Continuous Evaluation	Major Evaluation									
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional			L	T	P					
1.	15241201	DC	Computer Graphics	20	20	30	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs	
2.	15241202	DC	Object oriented Programming & Methodology	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs	
3.	15241203	DC	Computer System and Organization	20	20	30	30	-	-	100	2	1	-	3	Face to Face	pp	2 Hrs	
4.	15241204	DC	Operating Systems	20	20	30	30	-	-	100	2	1	-	3	Face to Face	pp	2 Hrs	
5.	15241205	ESC	Basic Electrical & Electronics Engineering	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs	
6.	15241206	DLC	Computer Graphics & Modelling Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-	
7.	15241207	DLC	Object oriented Programming & Methodology Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-	
8.	15241208	DLC	Electrical & Electronics Engineering Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-	
9.	15241209	SP	Semester Proficiency ^s	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-	
10.	15241210	PBL	Micro Project-II [#]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-	
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-	
12.	SIP1XXXX	SIP	Skill Internship Program (Soft Skill)	-	-	-	-	60	-	60	-	-	-	2**	Experiential	SO	-	
Total				100	100	150	150	440	120	1060	11	04	10	22	-	-	-	
13.	15241211	MAC	Sustainability & Environmental Science	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs	
14.	15241212	MWS	Mandatory Workshop on Indian Knowledge System at Department Level (Duration: Two Days)											GRADE	Interactive	MCQ	-	
Summer Semester of six-eight week duration will be conducted for makeup of I & II semester examination.																		

Summer Semester of six-eight week duration will be conducted for makeup of I & II semester examination.

^S Semester Proficiency– includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

MCQ: Multiple Choice Question **AO:** Assignment + Oral **PP:** Pen Paper **SO:** Submission + Oral **OB:** Open Book

****** These credits will be transferred from Skill Internship Program (Soft Skill).

Micro Project-II will be presented and evaluated through an interdisciplinary project evaluation committee.

HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
0	0	1	4	0	0	0	3	1	1	0	0	0	1	1	1



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Mode of Learning								Mode of Examination								Total Credits
Theory		Lab				NEC	SIP	Theory				Lab		NEC	SIP	
Face to Face	Online	Face to Face	Blended	Experiential	Experimental	Interactive	Experiential	PP	AO	MCQ	OB	SO	AO	SO	SO	
14		1	-	1	3	1	2	6		8		2	3	1	2	22
63.5		4.5		4.5	14	4.5	9	27.2		36.3		9	14	4.5	9	Credits %