



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (Deemed University)

(Declared Under Distinct Category by Ministry of Education, Government of India)



NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

Scheme of Evaluation

B. Tech. I Semester (*Artificial Intelligence (AI) and Machine Learning*)

(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 Evaluation	Duration of Major Evaluation	
				Theory Block			Practical Block			Major Evaluation	L	T					P
				Continuous Evaluation			Continuous Evaluation Lab Work & Sessional	Major Evaluation									
				Minor Evaluation I	Minor Evaluation II	Quiz/Assignment											
1.	28241101	DC	Digital Logic Design	20	20	30	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	28241102	DC	Foundations of Machine Learning	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
3.	28241103	DC	Internet and Web Technologies	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	28241104	DC	Problem Solving and Programming	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	28241105	BSC	Linear Algebra	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
6.	28241106	DLC	Problem Solving and Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	28241107	DLC	Internet and Web Technologies Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	28241108	SP	Semester Proficiency ⁵	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	28241109	PBL	Micro Project-I [#]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	28241110	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	330	170	1000	12	03	10	20	-	-	-
12.	28241111	MAC	Universal Human Values & Professional Ethics (UHVPE)	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
13.	28241112	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 Credited in II Semester.

⁵Semester 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	0	4	0	0	0	2	1	1	0	0	0	1	1	1

Mode of Learning					Mode of Examination					Total Credits
Face to Face	Interactive	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	
15	1	1	1	2	3	3	11	0	3	20
75	5	5	5	10	15	15	55	0	15	Credits %



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Scheme of Evaluation

B. Tech. I Semester (*Artificial Intelligence (AI) and Data Science*)

(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 Evaluation	Duration of Major Evaluation	
				Theory Block			Practical Block			Major Evaluation	L	T					P
				Continuous Evaluation			Continuous Evaluation	Major Evaluation									
				Minor Evaluation I	Minor Evaluation II	Quiz/Assignment											
1.	27241101	DC	Digital Logic Design	20	20	30	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	27241102	DC	Foundations of Data Science	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
3.	27241103	DC	Internet and Web Technologies	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	27241104	DC	Problem Solving and Programming	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	27241105	BSC	Linear Algebra	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
6.	27241106	DLC	Problem Solving and Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	27241107	DLC	Internet and Web Technologies Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	27241108	SP	Semester Proficiency ⁵	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	27241109	PBL	Micro Project-I [#]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	27241110	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	330	170	1000	12	03	10	20	-	-	-
12.	27241111	MAC	Universal Human Values & Professional Ethics (UHVPE)	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
13.	27241112	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 Credited in II Semester.

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HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	1	0	4	0	0	0	2	1	1	0	0	0	1	1	1

Mode of Learning					Mode of Examination					Total Credits
Face to Face	Interactive	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	
15	1	1	1	2	3	3	11	0	3	20
75	5	5	5	10	15	15	55	0	15	Credits %



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Scheme of Evaluation

B. Tech. I Semester (*Information Technology (Artificial Intelligence and Robotics)*)

(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 Evaluation	Duration of Major Evaluation	
				Theory Block			Practical Block			Major Evaluation	L	T					P
				Continuous Evaluation			Major Evaluation	Continuous Evaluation									
				Minor Evaluation I	Minor Evaluation II	Quiz/Assignment											
1.	24241101	DC	Digital Logic Design	20	20	30	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	24241102	DC	Foundations of Artificial Intelligence and Robotics	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
3.	24241103	DC	Electronic Systems	20	20	30	30	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
4.	24241104	DC	Problem Solving and Programming	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	24241105	BSC	Linear Algebra	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
6.	24241106	DLC	Problem Solving and Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	24241107	DLC	Electronic Systems Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	24241108	SP	Semester Proficiency [§]	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	24241109	PBL	Micro Project-I [#]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	24241110	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	330	170	1000	12	03	10	20	-	-	-
12.	24241111	MAC	Universal Human Values & Professional Ethics (UHVPE)	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
13.	24241112	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.

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HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	1	0	4	0	0	0	2	1	1	0	0	0	1	1	1

Mode of Learning					Mode of Examination					Total Credits
Face to Face	Interactive	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	
15	1	1	1	2	6	3	8	0	3	20
75	5	5	5	10	30	15	40	0	15	Credits %



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Scheme of Evaluation B. Tech. I Semester (*Artificial Intelligence (AI)*)

(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 Evaluation	Duration of Major Evaluation	
				Theory Block			Practical Block				Major Evaluation	L	T					P
				Continuous Evaluation			Continuous Evaluation	Major Evaluation	Major Evaluation									
				Minor Evaluation I	Minor Evaluation II	Quiz/Assignment												
1.	31241101	DC	Digital Logic Design	20	20	30	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs	
2.	31241102	DC	Foundations of Artificial Intelligence	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs	
3.	31241103	DC	Internet and Web Technologies	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs	
4.	31241104	DC	Problem Solving and Programming	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs	
5.	31241105	BSC	Linear Algebra	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs	
6.	31241106	DLC	Problem Solving and Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-	
7.	31241107	DLC	Internet and Web Technologies Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-	
8.	31241108	SP	Semester Proficiency [§]	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-	
9.	31241109	PBL	Micro Project-I [#]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-	
10.	31241110	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	330	170	1000	12	03	10	20	-	-	-	
12.	31241111	MAC	Universal Human Values & Professional Ethics (UHVPE)	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs	
13.	31241112	MWS	Mandatory Workshop on Indian Constitution and Traditional Knowledge at Department Level (Duration: Two Days)	-	-	-	-	-	-	-	-	-	-	GRADE	Interactive	MCQ	-	

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HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	1	0	4	0	0	0	2	1	1	0	0	0	1	1	1

Mode of Learning					Mode of Examination					Total Credits
Face to Face	Interactive	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	
15	1	1	1	2	3	3	11	0	3	20
75	5	5	5	10	15	15	55	0	15	Credits %