

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

B.Tech. I Semester (Chemical Engineering) For batches admitted in academic session 2022-23

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 Sem.		Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	Proficiency in subject /course													
1.	2100020	ESC	Basic Civil Engineering & Mechanics	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2Hrs
2.	2100021	ESC	Basic Mechanical Engineering	50	10	20	20	-	-	-	100	2	1	-	3	Blended	MCQ	1.5 Hrs
3.	2100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
4.	2100024	ESC	Manufacturing Practices	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
5.	2170121	DC	Fuel Technology	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2Hrs
6.	2170122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2Hrs
Total				250	50	100	100	240	80	80	900	10	5	8	19	-	-	-
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
Induction program of first three weeks (MC):Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visit / Virtual Visit to local Areas, Familiarization to Dept./Branch & Innovations § proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.																		

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Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language (Credits of Natural Sciences & Skills will be added in the VI Semester)

MCQ: Multiple Choice Question AO: Assignment + 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	SO	
-	-	15	4	06	03	06	04	19
-	-	78.94%	21.05%	31.57%	15.78%	31.57%	21.05%	Credits %

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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B.Tech. (Chemical Engineering) II Semester *For batches 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 Sem.		Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	[§] Proficiency in subject /course													
1.	2100011	BSC	Engineering Mathematics – I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	pp	2 Hrs
2.	2100014	ESC	Engineering Graphics	50	10	20	20	-	-	-	100	3	-	-	3	Offline	AO	2 Hrs
3.	2170221	DC	Chemical Process Calculations	50	10	20	20	-	-	-	200	2	1	-	3	Blended	pp	2 Hrs
4.	2170222	DC	Python Programming	50	10	20	20	60	20	20	100	2	1	2	4	Blended	MCQ	1.5 Hrs
5.	2170223	DC	Fluid Particle Mechanics	50	10	20	20	60	20	20	100	2	1	2	4	Blended	pp	2 Hrs
6.	2100018	ESC	Eg. Graphics Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
Total				250	50	100	100	180	60	60	800	12	4	6	19	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

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

[§]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 (Credits of Natural Sciences & Skills will be added in the VI Semester)

MCQ: Multiple Choice Question AO: Assignment + 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	SO	
07	-	09	03	10	03	03	03	19
36.84%	-	47.36%	15.78%	52.63	15.78%	15.78%	15.78%	Credits %

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed to be University)

NAAC Accredited with A++ Grade
Department of Chemical Engineering
Scheme of Evaluation

B. Tech. III Semester *For batches 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 (Online, Offline, Blended)	Mod e of Exam.	
				Theory Slot				Practical Slot				End Sem. Exam.	L	T				P
				End Term Evaluation		Continuous Evaluation		Continuous Evaluation										
				End Sem. Exam	\$Proficiency in subject/course	Mid Sem. Exam.	Quiz/Assignment	Lab Work & Sessional	Skill Based Mini Project									
1.	3100025	BSC	Engineering Mathematics-II	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	
2.	3170311	DC	Fluid Mechanics	50	10	20	20	40	30	30	200	2	1	2	4	Blended	PP	
3.	3170312	DC	Organic Process Technology	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	
4.	3170313	DC	Chemical Engineering Thermodynamics	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	
5.	3170314	DC	Heat Transfer	50	10	20	20	40	30	30	200	3	-	2	4	Blended	PP	
6.	3170315	DLC	Chemical Synthesis Lab	-	-	-	-	40	30	30	100	-	-	2	1	Offline	SO	
7.	3170316	DLC	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	40	-	40	-	-	2	1	Online + Mentoring	SO	
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO	
9.	3170317	DLC	Skill Internship Project (Institute Level) (Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO	
Total				250	50	100	100	230	130	90	950	14	2	14	23	-	-	
10.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	
11.	1000001	MAC	Indian Constitution & Traditional Knowledge	50	10	20	20	-	-	-	100	2	-	-	GRADE	Blended	MCQ	

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Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language (Credits of Natural Sciences & Skills will be added in the VI Semester)

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

Mode of Teaching	Mode of Examination	Total Credits
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NAAC Accredited with A++ Grade

Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
18	-	02	03	18	-	-	05	23
78.26%	-	8.7%	13.04%	78.26%	-	-	21.74%	Credits %