

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

Scheme of Examination

B. Tech. II Semester (Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication. Chemical)

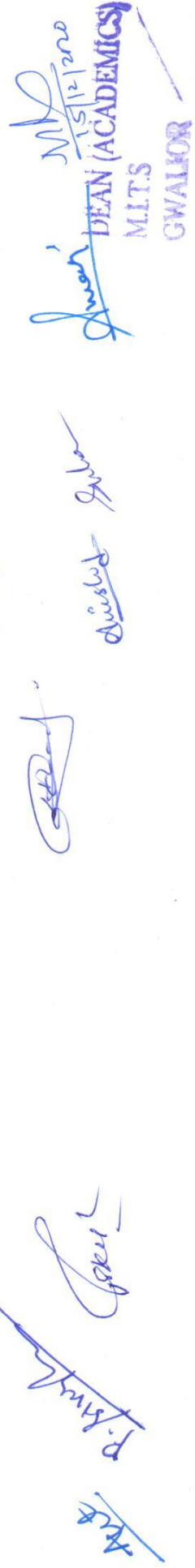
GROUP Y: II Semester

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted				Contact Hours per Week			Total Credits	
				Theory Slot		Practical Slot Lab work / Sessional	Total Marks	L	T	P		
				End Sem.	Mid Sem.							Quiz/Assignment
1.	100011	BSC	Engineering Mathematics -I	60	20	20	-	-	3	1	-	4
2.	170211	DC	Chemical Process Calculations	60	20	20	60	40	2	1	2	4
5.	100014	ESC	Engineering Graphics	60	20	20	-	-	1	2	-	3
2.	100015	HSMC	Energy, Environment, Ecology & Society	60	20	20	-	-	3	-	-	3
5.	100016	HSMC	Technical Language	60	20	20	-	-	3	-	-	3
6.	100017	HSMC	Language Lab	-	-	-	60	40	-	-	-	3
7.	100018	ESC	Eg. Graphics Lab	-	-	-	60	40	-	-	2	1
Summer Internship Project - I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.				300	100	100	180	120	12	4	6	19

NSS / NCC

Qualifier

GROUP X: (Civil, Mechanical, Electrical, and Automobile)
GROUP Y: (Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication. Chemical)
01 Theory Period=1 Credit; 02 Practical Periods =1 Credit



 P. Singh
 Gauri
 Divyesh Gauri
 M.P.
 15/12/2020
 DEAN (ACADEMICS)
 M.I.T.S
 GWALIOR

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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Scheme of Examination
GROUP Y: I Semester

B. Tech. I Semester (Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication. Chemical)

For batches admitted in academic session 2020-21 onwards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per Week			Total Credits
				Theory Slot		Practical Slot	End Sem.	Lab work / Sessonal		L	T	P	
				End Sem.	Mid Sem.								
1.	100012	BSC	Engineering Chemistry	60	20	20	60	40	2	1	2	4	
2.	100020	ESC	Basic Civil Engineering & Mechanics	60	20	20			2	1		3	
4.	100021	ESC	Basic Mechanical Engineering	60	20	20	-	-	2	1		3	
3.	100022	ESC	Basic Electrical & Electronics Engineering	60	20	20	60	40	2	1	2	4	
5.	100023	ESC	Basic Computer Engineering	60	20	20	60	40	2	1	2	4	
6.	100024	ESC	Manufacturing Practices	-	-	-	60	40	10	5	2	17	
			Total	300	100	100	240	160	12	3	8	19	
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.													
NSS / NCC													
Qualifier													

GROUP X: (Civil, Mechanical, Electrical, and Automobile)

GROUP Y: (Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication. Chemical)

01 Theory Period=1 Credit; 02 Practical Periods =1 Credit

M. S. D. S.
15/12/2020
DEAN (ACADEMICS)
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Divyanshu
Divyanshu

P. Singh
P. Singh

Prateek

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B.Tech. III Semester (Chemical Engineering) **For batches admitted in academic session 2020 – 21 onwards**

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Exam	Mode of Teaching (Offline/Online)
				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.	100012	BSC	Engineering Mathematics-II	50	10	20	20	-	-	-	100	3	-	-	3	PP	Offline (3/0)
2.	170311	DC	Fluid Mechanics	50	10	20	20	60	20	20	200	2	1	2	4	PP	Blended (2/1)
3.	170312	DC	Organic Process Technology	50	10	20	20	-	-	-	100	3	-	-	3	MCQ	Blended (2/1)
4.	170313	DC	Chemical Engineering Thermodynamics	50	10	20	20	-	-	-	100	3	-	-	3	PP	Blended ((2/1)
5.	170314	DC	Fluid Particle Mechanics	50	10	20	20	60	20	20	200	3	-	2	4	PP	Blended (2/1)
6.	170315	DLC	Chemical Synthesis Lab	-	-	-	-	60	20	20	100	-	-	2	1	SO	Offline (3/0)
7.	170316	DLC	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)# or Interdisciplinary course from other institutions and platforms with credit transfer	-	-	-	-	-	40	-	40	-	-	2	1	SO	Online + Mentoring
8.	200XXX	CLC	NSS/NCC/ Novel engaging Courses	-	-	-	-	50	-	-	50	-	-	2	1	SO	Interactive
9.	170317	DLC	Summer Internship Project-I (Institute Level) (Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	SO	Offline
Total				250	50	100	100	290	100	60	950	14	1	12	22	-	-
10.	100006 ⁵	MAC	Indian Constitution & Traditional Knowledge (Mandatory audit course)	50	10	20	10	-	-	-	100	2	-	14	Grade	MCQ	Online

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

⁴ compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

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

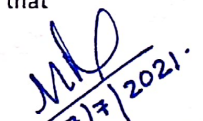
Subchana

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Shishu

Aravind


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B.Tech. IV Semester (Chemical Engineering) **For batches admitted in academic session 2020 – 21 onwards**

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Exam	Mode of Teaching (Offline/Online)
				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.		BSC	Engineering Mathematics-III	50	10	20	20	-	-	-	100	3	-	-	3	PP	Offline (3/0)
2.	170411	DC	Heat Transfer	50	10	20	20	60	20	20	200	2	1	2	4	PP	Blended (2/1)
3.	170412	DC	Instrumentation & Process Control	50	10	20	20	-	-	-	100	3	-	-	3	MCQ	Blended (2/1)
4.	170413	DC	Mechanical Design of Process Equipment	50	10	20	20	-	-	-	100	3	-	-	3	PP	Blended (2/1)
5.	170414	DC	Mass Transfer –I	50	10	20	20	60	20	20	200	2	1	2	4	PP	Blended (2/1)
6.		MC	Cyber Security	50	10	20	20	-	-	-	100	3	-	-	3	MCQ	Online (0/3)
7.	170415	DLC	Process Control Lab	-	-	-	-	60	20	20	100	-	-	2	1	SO	Offline (2/0)
8.	200XXX	CLC	NSS/NCC/ Novel engaging Courses	-	-	-	-	50	-	-	50	-	-	2	4	SO	Interactive
Total				300	60	120	120	230	60	60	950	16	2	8	22	-	-
9.	100002*	MAC	Biology for Engineers(Mandatory Audit Course)	50	10	20	10	-	-	-	100	2	-	-	Grade	MCQ	Online

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

*compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

§Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject

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B.Tech. V Semester (Chemical Engineering) Effective for 2020-21, 2021-22 & 2022-23

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. Exam	Quiz/Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project							
				End Term Evaluation	^s Proficiency in subject/course												
1.	170511	MC	Data Science	50	10	20	20	60	20	20	200	3	0	2	4	Blended (2/1)	MCQ
2.	170512	DC	Mass Transfer –II	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	170513	DC	Chemical Reaction Engineering – I	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
4.	170514	DC	Computational Methods in Chemical Engg	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
5.	170515	DC	Inorganic Process Technology	50	10	20	20	-	-	-	100	2	-	-	2	Blended (2/1)	MCQ
6.	170516	DLC	Minor Project-I	-	-	-	-	60	40	-	100	-	-	4	2	Offline (2/0)	SO
7.	170517	DLC	Self-learning/Presentation (SWAYAM/NPTEL/MOOC) ^s	-	-	-	-	-	40	-	40	-	-	2	1	Online + Mentoring	SO
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	170518	DLC	Summer Internship Project-II (Institute Level) (Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO
Total				250	50	100	100	410	160	60	1150	10	3	20	24	-	-
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	GRADE	Online	MCQ
11.	1000005	MAC	Project Management & Financing	50	10	20	20	-	-	-	100	2	-	-	GRADE	Online	MCQ
Additional Course for Honours or minor Specialization				Permitted to opt for maximum two additional courses for the award of 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

^{**}The Minor Project-I may be evaluated by an internal committee for awarding sessional marks.

^{*}Compulsory registration for one online course using SWAYAM/NPTEL/MOOC, evaluation through attendance, assignments and presentation

Note: Students of 2020-21 admitted batch needs to appear and complete an additional MAC course of 30 Hrs. duration on Project Management & Financing. other modules related to futuristic technologies (Drones/ Robotics etc.)

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4/11/22
DEAN (ACADEMICS)
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Pabur *CS* *Arishy* *Anari*