

Admitted 2017-2018 ✓

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, G VALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RG V, Bhopal)

Scheme of Examination
B. Tech. GROUP A: I Semester & GROUP B: I Semester *for batch admitted in Academic Session 2017-18*

S. No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/Assignmen	End Sem.	Lab work & Sessional					
1.	100201	BSC	Engineering Physics (BSC-1)	70	20	10	30	20	150	4	1	2	6
2.	100202	HSMC	Energy, Environment, Ecology & Society (HSMC-1)	70	20	10	-	-	100	4	1	-	5
3.	100203	ESC	Basic Computer Engineering (ESC-1)	70	20	10	30	20	150	4	1	2	6
4.	100204	ESC	Basic Mechanical Engineering (ESC-2)	70	20	10	30	20	150	4	1	2	6
5.	100205	ESC	Basic Civil Engineering & Mechanics (ESC-3)	70	20	10	30	20	150	4	1	2	6
6.	100206	HSMC	Language Lab. & Seminars (HSMC-2)	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	20	5	10	30

Induction Programme of first 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

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

2017-18 Admitted

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

Scheme of Examination (B.Tech.)

GROUP A: II Semester & GROUP B: I Semester *for batch admitted in Academic Session 2017-18*

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem.	Quiz/Assignment	End Sem.	Lab work & Sessional					
1.	100101	BSC-2	Engineering Chemistry	70	20	10	30	20	150	4	1	2	6
2.	100102	BSC-3	Engineering Mathematics-I	70	20	10	-	-	100	4	1	-	5
3.	100103	HSMC-3	Technical English	70	20	10	30	20	150	4	1	2	6
4.	100104	ESC-4	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	4	1	2	6
5.	100105	ESC-5	Engineering Graphics	70	20	10	30	20	150	4	1	2	6
6.	100106	ESC-6	Manufacturing Practices	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	20	5	10	30

Summer Internship Project -I (Institute Level) (Qualifier): Minimum two-week duration

GROUP A: (Electrical, Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication)

GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

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

M. Pandey
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DEAN (ACADEMICS)
M.I.T.S.
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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Scheme of Examination

B.Tech. III Semester (Computer Science & Engineering) for batch admitted in Academic Session 2017-18

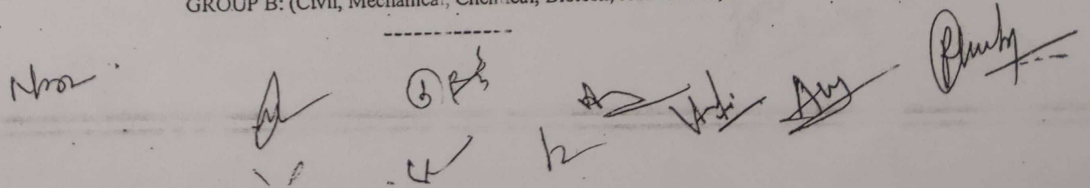
S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	100001	BSC	Mathematics-II (BSC-4)	70	20	10	-	-	100	3	1	-	4
2.	150301	DC	Digital Electronics (DC-1)	70	20	10	-	-	100	3	1	-	4
3.	150302	DC	Data Structures (DC-2)	70	20	10	-	20	100	3	-	2	4
4.	150303	DC	Computer Graphics (DC-3)	70	20	10	30	20	150	3	-	2	4
5.	150304	DC	Object Oriented Programming & Methodology (DC-4)	70	20	10	30	20	150	3	-	2	4
6.	150305	DLC	Hardware Lab* (DLC-1)	-	-	-	30	20	50	-	-	2	1
7.	150306	SEMINAR/ SELF STUDY	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)#	-	-	-	-	25	25	-	-	2	1
8.	150307	DLC	Summer Internship Project-1 (Institute Level) (Evaluation)	-	-	-	25	-	25	-	-	4	2
Total:				350	100	50	145	105	750	15	2	14	24
9.	100002 ⁵	MC	Biology for Engineers (Audit Course) (MC)	70	20	10	-	-	100	3	-	-	-
				Qualifier									
				NSS/NCC									

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

⁵ Course will run for Group A/B in III/IV semester respectively (Passing is optional, however a separate mark sheet will be issued to those who qualify)

*Virtual Lab to be conducted along with the traditional lab

GROUP A (Electrical, Electronics, Computer Science & Engineering Information Technology, Electronics & Telecommunication)
GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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Scheme of Examination (B.Tech.)

IV Semester (Computer Science & Engineering) *for batch admitted in Academic Session 2017-18*

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	1:0003	BSC-5	Mathematics- III	70	20	10	-	-	100	2	2	-	4
2.	1:0401	DC-5	Design & Analysis of Algorithms	70	20	10	30	20	150	2	1	2	4
3.	1:0402	DC-6	Database Management System	70	20	10	30	20	150	2	1	2	4
4.	1:0403	DC-7	Operating System	70	20	10	-	-	100	3	1	-	4
5.	1:0404	DC-8	Computer System Organization	70	20	10	-	-	100	3	1	-	4
6.	1:0004	MC	Cyber Security ⁵	70	20	10	-	-	100	2	1	-	3
7.	1:0405	DLC	Programming Lab (DLC-2)	-	-	-	30	20	50	-	-	4	2
Total				420	120	60	90	60	750	14	7	8	25
NSS/NCC				Qualifier									
Summer Internship Project-II (SoftSkills Based) for two weeks duration: Evaluation in V Semester													

⁵ This course will run for Group A/B in IV/III semester respectively.
*Virtual Lab to be conducted along with the traditional lab

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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Scheme of Examination
B.Tech. V Semester (Computer Science & Engineering) for batch admitted in Academic Session 2017-18

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	100005*	HSMC	Ethics, Economics, Entrepreneurship & Management (HSMC- 4)	70	20	10	-	-	100	2	-	-	2
2.	150501	BSC	Discrete Structures (BSC - 6)	70	20	10	-	-	100	2	1	-	3
3.	150502	DC	Software Engineering (DC-09)	70	20	10	30	20	150	2	-	2	3
4.	150503	DC	Theory of Computation (DC-10)	70	20	10	30	20	150	2	-	2	3
5.	150504	DC	Microprocessor & Interfacing (DC-11)	70	20	10	30	20	150	2	-	2	3
6.	150505	DLC	Minor Project-I** (DLC-3)	-	-	-	30	20	50	-	-	2	1
7.	150506	DLC	Summer Internship Project-II (Evaluation) (DLC-4)	-	-	-	25	-	25	-	-	4	2
8.	150507	SEMINAR/ SELF STUDY	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC) [#]	-	-	-	-	25	25	-	-	2	1
Total				350	100	50	145	105	750	10	1	14	18
9.	100006 ^s	MC	Indian Constitution & Traditional Knowledge (Audit Course) (MC)	70	20	10	-	-	100	3	-	-	-

Department level activity/workshop/awareness Programme to be conducted; certificate of compliance to be submitted by HoD to the Exam Controller through Dean Academics

Additional Courses for obtaining Honours or minor Specialization by desirous students Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

- * Group A/B programmes will offer this course in V/VI Semester respectively.
 - ^s Group A/B programmes will offer this course in V/VI Semester respectively. (Passing is optional, however a separate mark sheet will be issued to those who qualify)
 - ** 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
- GROUP A: (Electrical, Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication)
GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

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Scheme of Examination B.Tech. VI Semester (Computer Science & Engineering) *for batch admitted in Academic Session 2017-18*

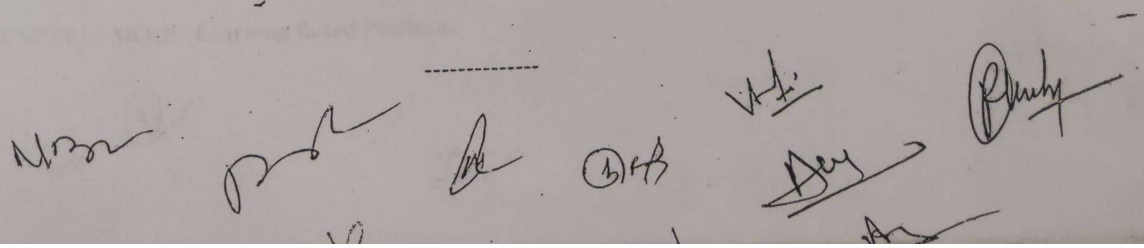
S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	150601	DC	Compiler Design (DC-12)	70	20	10	30	20	150	2	-	2	3
2.	150602	DC	Computer Networks (DC-13)	70	20	10	-	-	100	2	1	-	3
3.	150603	DE	DE* (DE-1)	70	20	10	-	-	100	2	-	-	2
4.	150604	DE	DE* (DE-2)	70	20	10	-	-	100	2	-	-	2
5.	150605	OC	OC-1*	70	20	10	-	-	100	2	-	-	2
6.	100007	MC	Disaster Management (MC)	70	20	10	-	-	100	2	-	-	2
7.	150606	DLC	Minor Project-II (DLC-5)	-	-	-	50	50	100	-	-	4	2
Total				420	120	60	80	70	750	12	1	6	16

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

Additional Courses for obtaining Honours or minor Specialization by desirous students

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

* At least one of these courses must be run through SWAYAM/NPTEL/ MOOC



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Scheme of Examination

B.Tech. VII Semester (Computer Science & Engineering) *for batch admitted in Academic Session 2017-18*

S. No.	Subject Code	Category	Subject Name & Title	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits		
				Theory Slot		Quiz/Assignment	Practical Slot			MOOC's	L	T		P	
				End Sem.	Mid Sem. Exam		End Sem.	Lab Work & Sessional							Assignment
1.	DE	DE	Departmental Elective (DE-3)	70	20	10									
2.	DE	DE	Departmental Elective (DE-4)					25	75						
3.	OC	OC	Open Category (OC-2)	70	20	10									
4.	OC	OC	Open Category (OC-3)	70	20	10									
5.	100008	MC	Intellectual Property Rights (IPR) (MC)	70	20	10									
6.	150701	DLC	Departmental Lab (DLC-6)				50	50							
7.	150702	DLC	Summer Internship Project-III (04 weeks) (Evaluation) (DLC-7)				50	50							
8.	150703	DLC	Creative Problem Solving (Evaluation) (DLC-8)				25	25							
Total				280	80	40	125	125	25	75	750	11	1	10	17

Additional Courses for obtaining Honours or minor Specialization by desirous students

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

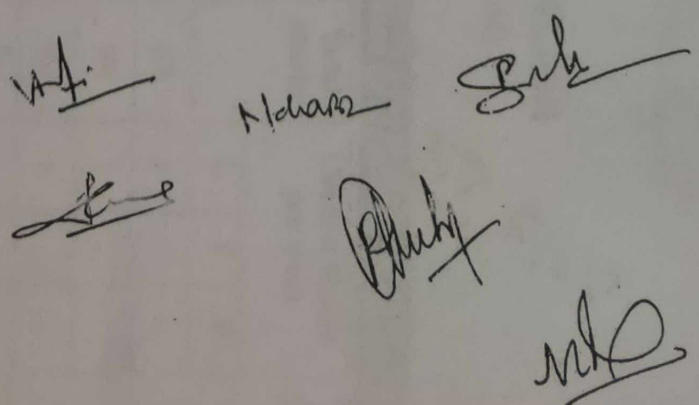
S. No.	Subject Code	Subject Name
1.	150711	Networking with TCP/IP
2.	150712	Data Mining & Warehousing
3.	150713	Distributed Systems

S. No.	Subject Code	Subject Name
1.	150751	Practical Machine Learning with Tensorflow
2.	150752	Scalable Data Science
3.	150753	Introduction to Internet of Things

S. No.	Subject Code	Subject Name
1.	900208	Soft Computing
2.	900209	Network Security
3.	900210	Data Mining & Warehousing

S. No.	Subject Code	Subject Name
1.	900220	R Programming
2.	900221	Artificial Intelligence
3.	900222	Computer Networks

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform



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Scheme of Examination

B.Tech. VIII Semester (Computer Science & Engineering) for batch admitted in Academic Session 2017-18

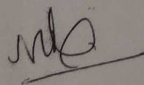
S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits	
				Theory Slot			Practical Slot		MOOCs		L	T	P		
				End Sem.	Mid Sem. Exam	Quiz/Assignment	End Sem.	Lab Work & Sessional	Assignment						Exam
1.	DE	DE	Departmental Elective* (DE-5)	-	-	-	-	-	25	75	100	2	-	-	2
2.	OC	OC	Open Category* (OC-4)	-	-	-	-	-	25	75	100	2	-	-	2
3.	OC	OC	Open Category* (OC-5)	-	-	-	-	-	25	75	100	2	-	-	2
4.	150801	DLC	Internship/Project (DLC-9)	-	-	-	250	150	-	-	400	-	-	6	3
5.	150802	-	Professional Development [#]	-	-	-	-	50	-	-	50	-	-	2	1
Total				-	-	-	250	200	75	225	750	6	-	8	10
Additional Courses for obtaining Honours or minor Specialization by desirous students				Permitted to opt for maximum two additional courses for the award of Honours or Minor specialisation											

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

[#] 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 and technical events)

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DEAN (ACADEMICS)
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GWALIOR