

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

Scheme of Examination

GROUP A: I Semester

B.Tech. I Semester (Computer Science & Engineering)

Admitted
Batch
2018-19 ✓
2019-20 ✓

S.No.	Subject Code	Category Code	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.	100201	BSC-1	Engineering Physics	70	20	10	30	20	150	2	1	2	4
2.	100202	HSMC-1	Energy, Environment, Ecology & Society	70	20	10	-	-	100	3	-	-	3
3.	100203	ESC-1	Basic Computer Engineering	70	20	10	30	20	150	3	-	2	4
4.	100204	ESC-2	Basic Mechanical Engineering	70	20	10	30	20	150	3	-	2	4
5.	100205	ESC-3	Basic Civil Engineering & Mechanics	70	20	10	30	20	150	3	-	2	4
6.	100206	HSMC-2	Language Lab. & Seminars	-	-	-	30	20	50	-	-	4	2
Total				350	100	50	150	100	750	14	1	12	21

NSS/NCC

Qualifier

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

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Scheme of Examination

Group A: II Semester ~~For batches admitted in Academic Session 2018-19 Onwards~~
B.Tech. II Semester (Computer Science & Engineering)

S.No.	Subject Code	Category Code	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	3	-	2	4
2.	100102	BSC-3	Engineering Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	100103	HSMC-3	Technical English	70	20	10	30	20	150	3	-	2	4
4.	100104	ESC-4	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	3	-	2	4
5.	100105	ESC-5	Engineering Graphics	70	20	10	30	20	150	3	-	2	4
6.	100106	ESC-6	Manufacturing Practice	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	1	10	21

NSS/NCC

Qualifier

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)

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Scheme of Examination
B.Tech. III Semester (Computer Science & Engineering)

For batches admitted in Academic Session & 2018-19 Onwards (w.e.f. July, 2018)

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credit
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work					
1.	100001	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	✓ 4
2.	150301	DC-1	Digital Electronics	70	20	10	-	-	100	3	1	-	✓ 4
3.	150302	DC-2	Data Structures	70	20	10	30	20	150	3	-	2	✓ 4
4.	150303	DC-3	Computer Graphics	70	20	10	30	20	150	3	-	2	✓ 4
5.	150304	DC-4	Object Oriented Programming and Methodology	70	20	10	30	20	150	3	-	2	✓ 4
6.	150305	DLC-I*	Hardware Lab	-	-	-	30	20	50	-	-	2	✓ 1
7.	150306	SEMINAR/SELF STUDY	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)#	-	-	-	-	25	25	-	-	2	✓ 1
8.	150307	DLC-2	Summer Internship Project-I (Institute Level) (Evaluation)	-	-	-	-	25	25	-	-	4	✓ 2
Total				350	100	50	120	130	750	15	2	14	24
9.	100002*	MC-1	Biology for Engineers(Audit Course)	70	20	10	-	-	100	3	-	-	03

NSS/NCC

Qualifier

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

* This course will run for Group A/B & Architecture students in III/IV semester respectively (Marks will not be included in the aggregate; but it is compulsory to obtain pass marks in this course)

* 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)

(Handwritten signatures and marks)

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Scheme of Examination
B.Tech. IV Semester (Computer Science & Engineering)

~~For batches admitted in Academic Session 2018-19 onwards (w.e. July 2018)~~

S. No.	Subject Code	Category Code	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.	100003	BSC-5	Mathematics- III	70	20	10	-	-	100	2	2	-	4 ✓
2.	150401	DC-5	Design & Analysis of Algorithms	70	20	10	30	20	150	2	1	2	4 ✓
3.	150402	DC-6	Database Management System	70	20	10	30	20	150	2	1	2	4 ✓
4.	150403	DC-7	Operating System	70	20	10	-	-	100	3	1	-	4 ✓
5.	150404	DC-8	Computer System Organization	70	20	10	-	-	100	3	1	-	4 ✓
6.	100004	MC-2	Cyber Security	70	20	10	-	-	100	2	1	-	3 ✓
7.	150405	DLC-2	Programming Lab	-	-	-	30	20	50	-	-	6	3 ✓
Total				420	120	60	90	60	750	14	7	10	26
NSS/NCC									Qualifier				

Summer Internship Project-II (Softskills Based) for two weeks duration: Evaluation in V Semester

Virtual Lab to be conducted along with the conditional lab

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Scheme of Examination
B.Tech. V Semester (Computer Science & Engineering)

For batches admitted in Academic Session 2018-19 Onwards (w.e.f. July, 2018)

S.No.	Subject Code	Category Code	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*	SMC-4	Ethics, Economics, Entrepreneurship & Management	70	20	10	-	-	100	3	-	-	3 ✓
2.	150501	BC-6	Discrete Structures	70	20	10	30	20	150	3	1	-	4 ✓
3.	150502	BC-9	Software Engineering	70	20	10	30	20	150	2	1	2	4 ✓
4.	150503	BC-10	Theory of Computation	70	20	10	30	20	150	2	1	2	4 ✓
5.	150504	BC-11	Microprocessor & Interfacing	70	20	10	30	20	150	2	1	2	4 ✓
6.	150505	LC-4	Minor Project-I**	-	-	-	30	20	50	-	-	2	1 ✓
7.	150506	LC-5	Summer Internship Project-II (Evaluation)	-	-	-	25	-	25	-	-	6	3 ✓
8.	150507	SEMINAR/SELF STUDY	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)*	-	-	-	-	25	25	-	-	2	1 ✓
Total				350	100	50	145	105	750	12	4	16	24 ✓
9.	100006 ^s	MC-3	Indian Constitution & Traditional Knowledge Audit Course)	70	20	10	-	-	100	3	-	-	03
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 Course for Honours or minor Specialization	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. (Marks will not be included in the aggregate; but it is compulsory to obtain pass marks in this course)

** 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 batches admitted in Academic Session 2018-19 Onwards (w.e.f. July, 2018)

S. No.	Subject Code	Category Code	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.	150601	DC	Compiler Design (DC-12)	70	20	10	30	20	-	-	150	2	1	2	4
2.	150602	DC	Computer Networks (DC-13)	70	20	10	-	-	-	-	100	4	-	-	4
3.	150603	DE	DE-1	70	20	10	-	-	-	-	100	4	-	-	4
4.	150604	DE	DE-2*	-	-	-	-	-	25	75	100	4	-	-	4
5.	150605	OC	OC-1	70	20	10	-	-	-	-	100	2	1	-	3
6.	100007	MC-4	Disaster Management	70	20	10	-	-	-	-	100	3	-	-	3
7.	150606	DLC-5	Minor Project-II	-	-	-	50	50	-	-	100	-	-	4	2
Total				350	100	50	80	70	25	75	750	19	2	6	24

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

Additional Course for Honours or minor Specialization Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

* This courses must be run through SWAYAM/NPTEL/ MOOC

DE -1 (Through Traditional Mode)		
S. No.	Subject Code	Subject Name
1.	150611	Network & Web Security
2.	150613	Mobile Computing
3.	150614	Cloud Computing

OC-1		
S. No.	Subject Code	Subject Name
1.	900106	Data Structures
2.	900107	Python Programming

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

DE II
150651
652
DE-2 (NPTEL)
Data Analytics with Python
Introduction to ML
AI: Knowledge representation
M.D.
DEAN (ACADEMICS)
M.I.T.S
GWALIOR

WJ

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Scheme of Examination

B. Tech. VII Semester (Computer Science and Engineering) for batch admitted in Academic Session 2018-19

S. No.	Subject Code	Category	Subject Name & Title	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-3)	70	20	10	-	-	-	-	100	3	-	-	3
2.	DE	DE	Departmental Elective* (DE-4)	-	-	-	-	-	25	75	100	2	-	-	2
3.	OC	OC	Open Category (OC-2)	70	20	10	-	-	-	-	100	2	1	-	3
4.	OC	OC	Open Category (OC-3)	70	20	10	-	-	-	-	100	3	-	-	3
5.	100008	MC	Intellectual Property Rights (IPR) (MC)	70	20	10	-	-	-	-	100	2	-	-	2
6.	150701	DLC	Departmental Lab (DLC-6)	-	-	-	50	50	-	-	100	-	-	4	2
7.	150702	DLC	Summer Internship Project-III (04 weeks) (Evaluation) (DLC-7)	-	-	-	50	50	-	-	100	-	-	4	2
8.	150703	DLC	Creative Problem Solving (Evaluation) (DLC-8)	-	-	-	25	25	-	-	50	-	-	2	1
Total				280	80	40	125	125	25	75	750	12	1	10	18

Additional Course 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.

DE -3 (Through Traditional Mode)		
S. No.	Subject Code	Subject Name
1.	150711	Networking with TCP/IP
2.	150712	Data Mining & Warehousing
3.	150713	Distributed Systems

DE -4*		
S. No.	Subject Code	Subject Name
1.	150754	Cloud Computing
2.	150755	Deep learning - IITRopar
3.	150756	Software Testing

OC-2		
S. No.	Subject Code	Subject Name
1.	900208	Soft Computing
2.	900209	Network Security

OC-3		
S. No.	Subject Code	Subject Name
1.	900220	R Programming
2.	900222	Computer Networks

28/07/21

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

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Annexure-I

Scheme of Examination

B.Tech. VIII Semester (Computer Science and Engineering) *for batch admitted in Academic Session 2018-19*

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	3	-	-	3
2.	DE	DE	Departmental Elective* (DE-6)	-	-	-	-	-	25	75	100	3	-	-	3
3.	OC	OC	Open Category* (OC-4)	-	-	-	-	-	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	8	-	8	12
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											

*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)

DE-5

S. No.	Subject Code	Subject Name
1	150851	Social Network
2	150854	Ethical Hacking
3	150855	Hardware Security

DE-6*

S. No.	Subject Code	Subject Name
1.	150856	Blockchain and its applications
2.	150857	Online Privacy
3.	150853	Reinforcement Learning

OC-4*

S. No.	Subject Code	Subject Name
1.	900627	Ethical Hacking
2.	900619	Introduction to Internet of Things
3.	900628	Online Privacy

Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform