



Technocrats Institute of Technology, Bhopal (M.P)

(A UGC Autonomous Institute Affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal)

Scheme of Examination

I Semester M.Tech. (Computer Science and Engineering)

Sr. No.	Course Code	Course Name	Maximum Marks Alloted					Total Marks	Course Hours Per Week			Credits
			Theory			Practical			L	T	P	
			End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	MCSE- 101	Advanced Data Structures & Algorithms Design	70	20	10	-	-	100	2	1	-	3
2.	MCSE -102	Machine Learning Techniques	70	20	10	-	-	100	2	1	-	3
3.	MCSE -103	Elective – I 1. Deep learning & Applications 2. NLP 3. Big Data	70	20	10	-	-	100	2	1	-	3
4.	MCSE -104	Elective – II 1. IOT 2. Cloud Computing 3. Block chain Technology	70	20	10	-	-	100	2	1	-	3
5.	MCSE -105	Data Structures & Algorithms Design Lab	-	-	-	90	60	150	-	-	4	2
6.	MCSE -106	Database Design & Applications Lab	-	-	-	90	60	150	-	-	4	2
7.	MCSE -107	Research Methodology and IPR	70	20	10	-	-	100	2	-	-	2
8.	MCSE -108	Audit Course-1	-	-	-	-	-	-	2	-	-	0
Total			350	100	50	180	120	800	12	4	8	18

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II Semester- M.Tech. (Computer Science and Engineering)

Sr. No.	Course Code	Course Name	Maximum Marks Alloted					Total Marks	Course Hours Per Week			Credits
			Theory			Practical			L	T	P	
			End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1	MCSE- 201	Artificial & Computational Intelligence	70	20	10	-	-	100	2	1	-	3
2	MCSE- 202	Advanced Database Management System	70	20	10	-	-	100	2	1	-	3
3.	MCSE- 203	Elective – III 1.Data Science & Analytics 2.Computer Vision 3.Data Engineering	70	20	10	-	-	100	2	1	-	3
4.	MCSE- 204	Elective – IV 1. AI in Cloud and Distributed Systems 2. Quantum Machine Learning 3. Data Warehousing and OLAP	70	20	10	-	-	100	2	1	-	3
5.	MCSE- 205	Artificial & Computational Intelligence Lab	-	-	-	90	60	150	-	-	4	2
6.	MCSE- 206	Advanced Database Management System Lab	-	-	-	90	60	150	-	-	4	2
7.	MCSE- 207	NPTEL /MOOC Courses	-	-	-	-	50	50	2	-	-	2
8.	MCSE- 208	Audit Course-2	-	-	-	-	-	-	2	-	-	-
Total			280	80	40	180	170	750	12	4	8	18

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III Semester- M.Tech. (Computer Science and Engineering)

Sr. No.	Course Code	Course Name	Maximum Marks Alloted					Total Marks	Course Hours Per Week			Credits
			Theory			Practical			L	T	P	
			End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	MCSE- 301	Elective - V 1. Digital Forensics 2. Cybersecurity & Ethical Hacking 3. Embedded & IoT Systems	70	20	10	-	-	100	3	1	-	4
2.	MCSE- 302	1. Human Computer Interaction 2. Augmented & Virtual Reality 3. Cognitive Computing	70	20	10	-	-	100	3	1	-	4
3.	MCSE- 303	Dissertation Phase – I	-	-	-	120	80	200	-	-	16	8
Total			140	40	20	120	80	400	6	2	16	16

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IV Semester- M.Tech. (Computer Science and Engineering)

Sr. No.	Course Code	Course Name	Maximum Marks Alloted					Total Marks	Course Hours Per Week			Credits
			Theory			Practical			L	T	P	
			End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	MCSE- 401	Dissertation Phase -II	-	-	-	300	200	500	-	-	32	16
Total			0	0	0	300	200	500	0	0	32	16

Total Credit for the programme 18+18+16+16=68

*Notes:

1. The list of programme electives is indicative. The Institute may finalize the offerings based on the available facilities and faculty expertise .
 2. Lab sessions may be conducted for core courses of individual semesters as shown in the structure but marks of evaluation will be reported as consolidated under single head.
- Contents of the courses listed in the structure are given on following pages

Auditcourse 1 & 2

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills.

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