B.N.M. Institute of Technology

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Department of Computer Science & Engineering

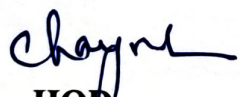## M.Tech (2025-27 batch)

I SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical	Project	Hours Per week	Credits (21)	Examination		
					L	T	P	J			CIE	SEE	Total
1	PCC	25MMT211	Advanced mathematics	Mathematics	3	1	-	-	4	4	50	50	100
2	PCC	25MCS212	Advanced Computer Networks and Security	CSE	3	-	-	-	3	3	50	50	100
3.	PCC	25MCS213	Advanced Data Base Management	CSE	3	-	1	1	5	4	50	50	100
4	PCC	25MCS214	Research Ethics and Inovationn Management	CSE	3	-	-	-	3	3	50	50	100
5	PCI	25MCS215	Advanced Data Structures and Algorithms for problem solving	CSE	3	-	2	-	5	4	50	50	100
6	PBL	25MCS216	Digital Image Processing and Computer Vision	CSE	2	-	1	1	4	3	50	50	100
TOTAL					17	1	4	2	24	21	300	300	600

Note:

MMT: Masters in Mathematics, MCS: Masters in Computer Science

PCC: Professional Core, PCI: Integrated Professional Core, PBL: Project Based Learning, SP: Societal Project , INT:Internship , PW: Project Work

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Bangalore - 560 070

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Department of Computer Science & Engineering
M.Tech (2025-27 batch)
II SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical	Project	Hours Per week	Credits (20)	Examination		
					L	T	P	J			CIE	SEE	Total
1	PCC	25MCS221	Advances in Operating System	CSE	3	-	-	-	3	3	50	50	100
2	PCI	25MCS222	Data Science and Business Intelligence	CSE	3	-	1	1	5	4	50	50	100
3	PCC	25MCS223	Deep Learning	CSE	3	-	2	-	5	4	50	50	100
4	PCC	25MCS224	Software Architecture and Design Patterns	CSE	3	-	-	-	3	3	50	50	100
5	PEC	25MCS225x	Professional Elective-I	CSE	3	-	-	-	3	3	50	50	100
6	PEC	25MCS226x	Professional Elective-II (MOOC course)	CSE	2	-	1	-	3	3	50	50	100
TOTAL					17	0	4	1	22	20	300	300	600

Professional Elective I	
25MCS2251	Ethical Hacking
25MCS2252	Industrial Internet of Things(IIOT)
25MCS2253	Social Network Analysis
25MCS2254	Wireless and Adhoc Networks

Professional Elective II (MOOC Course)	
25MCS2261	Advanced Web Technologies
25MCS2262	Automation Testing
25MCS2263	Reinforcement Learning
25MCS2264	DevOps and Cloud Infrastructure

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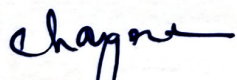
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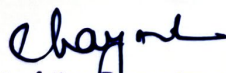
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III SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical	Project	Hours Per week	Credits (21)	Examination		
					L	T	P	J			CIE	SEE	Total
1	PCI	25MCS231	Cyber Security and Digital Forensics	CSE	2	1	1	-	4	3	50	50	100
2	PCC	25MCS232	Software Defined Networks	CSE	3	-	-	-	3	3	50	50	100
3	SP	25MCS233	Societal project	CSE	3	-	-	-	3	3	50	50	100
4	PEC	25MCS234X	Professional Elective-III	CSE	3	-	-	-	3	3	50	50	100
5	INT	25MCS235	Internship	CSE	-	-	-	6	6	6	50	50	100
6	PW	25MCS236	Project Work-Phase I	CSE	-	-	-	3	3	3	100		100
			TOTAL		11	1	1	9	22	21	350	250	600

Professional Elective III	
25MCS2341	Augmented and Virtual Reality
25MCS2342	Foundation for Cloud IoT and Edged ML
25MCS2343	Robotic Process Automation
25MCS2344	Process Mining

Project Work Phase-1: Students in consulation with the guide, shall pursue literature survey and complete the preliminary requirementsof selected Project Work. Each student shall prepare relevant introductory project document and present a seminar. CIE marks will be awarded by a committee comprising of a guide and 3 Professors of the department. The CIE marks Awarded for Project Phase Work-1 shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

Societal project : Students in consultation with the internal guide as well as with external guide (much preferable) shall involve in applying technology toworkout / proposing viable solutions for societal problems.
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question and Answer session in the ratio of 50:25:25.Those, who have not pursued /completed the Societal Project, shall be declared as fail in the course and have to complete the same during subsequent semester/s after satisfying the Societal Project requirements. There is no SEE (University examination) for this course.

Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I or II semester. Examination shall be conducted during III semester and the prescribed internship credit shall be counted in the same semester. Internship shall be considred as a head of passing and shall be considered for the award of degree. Those who have not pursued /completed the intership shall be declared as fail in internship course and have to complete the same during subsequent examination after satisfying the internship requirements. SEE shall be evaluated based on presentation and report.

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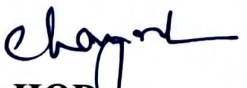
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IV SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical	Project	Hours Per week	Credits (18)	Examination		
					L	T	P	J			CIE	SEE	Total
1	PW	25MCS241	Project Work-Phase II	CSE	-	-	-	18	18	18	100	100	100
	TOTAL				0	0	0	18	18	18	100	100	200

Note:

Project Work Phase-2: Students in consulation with the guide, shall pursue literature survey and complete the preliminary requirementsof selected Project Work. Each student shall prepare relevant introductory project document and present a seminar. CIE marks will be awarded by a committee comprising of a guide and 3 Professors of the department. The CIE marks Awarded for Project Phase Work-2 shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. SEE shall be based on the evaluation of Phase -2 presentation and report.

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