

B. N. M. Institute of Technology
An Autonomous Institute Under VTU

Department of Computer Science and Engineering
III Semester
Scheme of Teaching 2025 – 29 Batch

Sl. No.	Course Type	Course Code	Course Title	Teaching Department	Teaching Hours/Week				Hours Per Week	Credits	Examination		
					Lecture	Tutorial	Practical	Project			CIA	SEA	Total
					L	T	P	J					
1	BSC	25MAC131	Fourier Transform, Fundamentals of logic and Advanced Linear Algebra	Mathematics	2	2	-	-	4	3	50	50	100
2	PCC	25CSE132	Computer Organization and Architecture	CSE	2	2	-	-	4	3	50	50	100
3	PCC	25CSE133	Operating System	CSE	2	-	2	-	4	3	50	50	100
4	PCI-P	25CSE134	Data Structures and Applications Using C	CSE	3	-	2	-	5	4	50	50	100
5	PCI-P	25CSE135	Data Analysis and Visualization	CSE	2	-	2	-	4	3	50	50	100
6	PCI-P	25CSE136	Object Oriented Programming using Java	CSE	2	-	2	-	4	3	50	50	100
7	PBL	25CSE137	Innovative Project Learning (Social Concern)	CSE	-	-	-	2	2	1	100	-	100
8	AEC	25SFT138	Soft Skills – I	HSS	-	-	2	-	2	1	100	-	100
Total					13	4	10	2	29	21	500	300	800

CIE: Continuous Internal Evaluation, SEE: Semester End Examination, NCMC: Non Credit Mandatory Course AICTE Activity Points to be earned by students admitted to BE day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other institutions and Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to BNMIT. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

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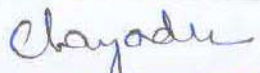
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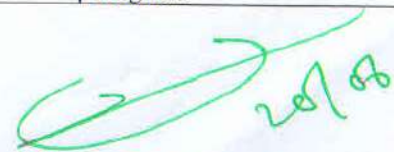
Department of Computer Science and Engineering
IV Semester
Scheme of Teaching 2025 – 29 Batch

Sl. No.	Course Type	Course Code	Course Title	Teaching Department	Teaching Hours/Week				Hours Per Week	Credits	Examination		
					Lecture	Tutorial	Practical	Project			CIA	SEA	Total
					L	T	P	J					
1	BSC	25MAC141	Statistics, Probability and Graph Theory	Mathematics	2	2	-	-	4	3	50	50	100
2	PCI-C	25CSE142	Microcontroller and Internet of Things	CSE	2	-	2	-	4	3	50	50	100
3	PCI-C	25CSE143	Database Management System	CSE	3	-	2	-	5	4	50	50	100
4	PCI-P	25CSE144	Design and Analysis of Algorithms	CSE	3	-	2	-	5	4	50	50	100
5	PCI-P	25CSE145	Artificial Intelligence and Machine Learning	CSE	3	-	2	-	5	4	50	50	100
6	PBL	25CSE146	Internship – I & IPL	CSE	-	-	2	2	4	2	100	-	100
7	HSS	25CIP147	Constitution of India and Professional Ethics	HSS	-	2	-	-	2	1	100	-	100
8	AEC	25SFT148	Soft Skills – II	HSS	-	2	-	-	2	1	100	-	100
Total					13	6	10	2	31	22	550	250	800

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Department of Computer Science and Engineering
V Semester
Scheme of Teaching 2025 – 29 Batch

Scheme of Teaching 2025 – 29 Batch													
Sl. No.	Course Type	Course Code	Course Title	Teaching Department	Teaching Hours/Week				Hours Per Week	Credits	Examination		
					Lecture	Tutorial	Practical	Project			CIA	SEA	Total
					L	T	P	J					
1	PCC	25CSE151	Software Project Management and Finance	CSE	2	2	-	-	4	3	50	50	100
2	PCC	25CSE152	Automata Theory and Computation	CSE	2	2	-	-	4	3	50	50	100
3	PCI-P	25CSE153	Computer Networks	CSE	3	-	2	-	5	4	50	50	100
4	PCI-P	25CSE154	Natural Language Processing	CSE	3	-	2	-	5	4	50	50	100
5	PCI-C	25CSE155	Cloud Computing and Applications	CSE	2	-	2	-	4	3	50	50	100
6	OEC	25CSE156X	Open Elective - I	CSE	2	-	2	-	4	3	50	50	100
7	AEC	25CSE157	Employability Skills – I [Technical]	T&P	-	2	-	-	2	1	100	-	100
8	INT	25CSE158	Internship - II	CSE	-	-	2	2	4	2	100	-	100
Total					14	6	10	2	32	23	500	300	800

Open Elective – I			
25CSE1561	Operating System	25CSE1562	Object Oriented Programming Using Java
25CSE1563	Efficient Algorithms and Data Structures using Java	25CSE1564	Database Management System.

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Department of Computer Science and Engineering
VI Semester
Scheme of Teaching 2025 – 29 Batch

Sl. No.	Course Type	Course Code	Course Title	Teaching Department	Teaching Hours/Week				Hours Per Week	Credits	Examination		
					Lecture L	Tutorial T	Practical P	Project J			CIA	SEA	Total
1	PCC	25CSE161	System Software and Compiler Design	CSE	2	2	-	-	4	3	50	50	100
2	PCI-P	25CSE162	Cryptography and Cyber Security	CSE	3	-	2	-	5	4	50	50	100
3	PCI-C	25CSE163	Gen AI & Prompt Engineering	CSE	2	-	2	-	4	3	50	50	100
4	PBL	25CSE164	Interactive Graphics and Extended Reality	CSE	1	-	-	2	3	2	50	50	100
5	PEC	25CSE165X	Professional Elective - I	CSE	2	2	-	-	4	3	50	50	100
6	PEC	25CSE166X	Professional Elective - II	CSE	2	-	2	-	4	3	50	50	100
7	PCC	25CSE167X	Open Elective - II	CSE	3	-	-	-	3	3	50	50	100
8	AEC	25CSE168	Employability Skills – I [Technical]	T&P	-	-	2	-	2	1	100	-	100
Total					15	4	8	2	29	22	450	350	800

Open Elective – II			
25CSE1671	Storage Area Networks	25CSE1672	Computer Graphics & Visualization
25CSE1673	Modern Web Development and UI/UX Design	25CSE1674	Machine Learning
25CSE1675	Technology and Transformation		
Professional Elective – I			
25CSE1651	Deep Learning	25CSE1652	Information and Network Security
25CSE1653	Data Warehousing and Data Mining	25CSE1654	No Sql Database
25CSE1655	Cryptographic Hash and Integrity Protection	25CSE1656	Advanced Computer Architecture
Professional Elective – II			
25CSE1661	Digital Image Processing	25CSE1662	Malware Analysis & Reverse Engineering
25CSE1663	DevOps	25CSE1664	Mobile Application development
25CSE1665	Cyber Crime and Computer Forensics	25CSE1666	High Performance & Computer Architecture
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Department of Computer Science and Engineering
VII Semester
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					Lecture	Tutorial	Practical	Project			CIA	SEA	Total
1	PCI-P	25CSE171	Agentic AI	CSE	2	-	2	-	4	3	50	50	100
2	PEC	25CSE172X	Professional Elective III	CSE	2	-	2	-	4	3	50	50	100
3	PEC	25CSE173X	Professional Elective IV	CSE	3	-	-	-	3	3	50	50	100
4	AEC	25CSE174	Research Methodology and Intellectual Property Rights	CSE	2	1	-	-	3	2	50	50	100
5	PW	25CSE175	Project Work Phase – I	CSE	-	-	-	8	8	4	100	-	100
Total					9	1	4	8	22	15	300	200	500

Professional Elective – III			
25CSE1721	Advanced AI	25CSE1722	Storage Area Networks
25CSE1723	Robotic Process Automation	25CSE1724	Advances in Web Technologies
25CSE1725	Block Chain Technology	25CSE1726	Quantum Computing
Professional Elective – IV			
25CSE1731	Algorithmic Game Theory	25CSE1732	Foundation of Cloud IoT Edge ML
25CSE1733	Process Mining	25CSE1734	User Interface Design
25CSE1735	Ethical Hacking	25CSE1736	Understanding Incubation and Entrepreneurship
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VIII Semester

Scheme of Teaching 2025 – 29 Batch

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					Lecture	Tutorial	Practical	Project			CIA	SEA	Total
1	PEC	25CSE181X	Professional Elective V	CSE	3	-	-	-	3	3	50	50	100
2	INT	25CSE182	Internship	CSE	-	-	16	-	16	8	50	50	100
3	PW	25CSE183	Project Work Phase - II	CSE	-	-	-	12	12	6	50	50	100
Total					3	-	16	12	31	17	150	150	300

Professional Elective – V

25CSE1811	Learning Deep Architectures for AI	25CSE1812	Edge Computing
25CSE1813	Business Intelligence & Analysis	25CSE1814	Full Stack Networking
25CSE1815	Privacy and Security in Online Social Media	25CSE1816	Parallel Computing System

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