SAPTHAGIRI NPS UNIVERSITY
UNMATCHED EXCELLENCE,UNLIMITED POTENTIAL
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

School of Engineering and Technology

Department of
Computer Science and Engineering

2026 Batch Admitted
Master of Technology - CSE

Proposed
SCHEME & SYLLABUS
2026 Scheme

Sapthagiri NPS University [SNPSU]

(Approved by UGC, New Delhi and Private University under Govt., of Karnataka)
No. 14 / 5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057, India.
Website: www.snpsu.edu.in

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M.Tech. in Computer Science and Engineering; Scheme of Teaching and Examinations 2026 batch

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2026-27)

I Semester

SN	Course Type	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIA Marks	SEE Marks	Total Marks	
					L	T	P					
1.	ES	26MTCSE101	Data Science and Management	TD: CSE PSB: CSE	03	00	02	03	50	50	100	4
2.	ES	26MTCSE102	Machine Learning Algorithms	TD: CSE PSB: CSE	03	00	02	03	50	50	100	4
3.	ES	26MTCSE103	Cloud Computing and Intelligence	TD: CSE PSB: CSE	02	00	02	03	50	50	100	3
4.	ES	26MTCSE104	Advanced Data Structures and Algorithms	TD: CSE PSB: CSE	03	00	00	03	50	50	100	3
5.	PE	26MTCSE1XX	Professional Elective I	TD: CSE PSB: CSE	03	00	00	03	50	50	100	3
6.	ES	26MTCSE105	Research Methodology and IPR	TD: CSE PSB: CSE	02	00	00	03	50	50	100	2
7.	UV	26MTCSE106	Audit Course (Personality Development)	TD: CSE PSB: CSE	01	00	00	03	100	-	100	1
								Total	**400**	**300**	**700**	**20**

ES: Engineering Science Course, **UV:** Universal Human Value Course, **PW:** Project Work/Mini Project, **IS:** Internship / Technical Seminar, **PE:** Professional Elective Course, **L:** Lecture, **T:** Tutorial, **P:** Practical, **CIA:** Continuous Internal Assessment, **SEE:** Semester End Examination.

26MTCSE1XX- Professional Elective I
26MTCSE111- Cyber Security & Forensics 26MTCSE112- Edge and Fog Computing 26MTCSE113- Advanced Wireless and Mobile Networks

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II Semester

SN	Course Type	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIA Marks	SEE Marks	Total Marks	
					L	T	P					
1.	ES	26MTCSE201	Soft Computing and Applications	TD: CSE PSB: CSE	03	00	00	03	50	50	100	3
2.	ES	26MTCSE202	Prompt Engineering	TD: CSE PSB: CSE	03	00	02	03	50	50	100	4
3.	ES	26MTCSE203	Big Data Analytics	TD: CSE PSB: CSE	03	00	0	03	50	50	100	3
4.	ES	26MTCSE204	Deep Learning and Gen AI	TD: CSE PSB: CSE	03	00	02	03	50	50	100	4
5.	PE	26MTCSE2XX	Professional Elective II	TD: CSE PSB: CSE	03	00	00	03	50	50	100	3
6.	PE	26MTCSE2XX	Professional Elective III	TD: CSE PSB: CSE	03	00	00	03	50	50	100	3
Total									**350**	**350**	**700**	**20**

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26MTCSE2XX – Professional Elective II
26MTCSE211- Natural Language Processing 26MTCSE212- Blockchain Technologies 26MTCSE213 - High Performance Computing
26MTCSE2XX– Professional Elective III
26MTCSE221 - Data Storage Technologies and Networks 26MTCSE222 – DevOps and MLOps 26MTCSE223 - Agentic AI

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III Semester

SN	Course Type	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical / Drawing	Duration in hours	CIA Marks	SEE Marks	Total Marks	
					L	T	P					
1.	IS	26MTCSE301	Industry / Research/Teaching Internship	PSB: CSE	00	00	16	03	50	50	100	8
2.	IS	26MTCSE302	Technical Seminar	PSB: CSE	00	00	04	03	100	-	100	2
3.	PW	26MTCSE303	Project Work Phase I	TD: CSE PSB: CSE	00	00	14	03	50	50	100	7
4.	PE	26MTCSE3XX	Professional Elective IV / Online Courses MOOC/NPTEL (12 Weeks)	PSB: MOOC / NPTEL	-	-	-	-	-	-	-	3
Total									**200**	**100**	**300**	**20**

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26MTCSE3XX– Professional Elective IV

Courses MOOC/NPTEL (12 Weeks)
https://nptel.ac.in/domains/discipline

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IV Semester

SN	Course Type	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIA Marks	SEE Marks	Total Marks	
					L	T	P					
1.	PW	26MTCSE401	Project Work Phase -II	TD: CSE PSB: CSE	0	0	36	03	50	50	100	18
Total									**50**	**50**	**100**	**18**

ES: Engineering Science Course, **UV:** Universal Human Value Course, **PW:** Project Work/Mini Project, **IS:** Internship / Technical Seminar, **PE:** Professional Elective Course, **L:** Lecture, **T:** Tutorial, **P:** Practical, **CIA:** Continuous Internal Assessment, **SEE:** Semester End Evaluation.

Industry Internship: The main objective of the industry internship is to ensure that the intern is exposed to a real-world environment and gains practical experience. Often, it may be a practical exposure to the theory that has been learned during the academic period. The industry internship helps students understand of analytical concepts and tools, hone their skills in real-life situations, and build confidence in applying the skills learned. The students who take up a one-semester Internship in the Industry have to appear SEE at the institute at the end of the semester as per the examination calendar.

Teaching Internship: The course is expected to provide students with practical exposure to teaching and learning methodologies in higher education, with hands-on experience in lesson planning, classroom instruction, student assessment, and academic mentoring.

Research Internship: A research internship is an opportunity for students or early career professionals to gain hands-on experience in conducting research under the guidance of a mentor or within a research team. These internships can take place in academic institutions, research organizations, government agencies, or private companies

Project Phase-1 : Phase-1 lays the foundation for the entire project. This phase involves defining the project's scope, objectives, and initial planning. Students in consultation with the guide shall carry out literature survey/visit industries to finalize the topic of the Project. Subsequently, the students shall collect the material required for the selected project, prepare a synopsis, and narrate the methodology to carry out the project work.

Project Work Phase-II: Each student shall be involved in carrying out the project work jointly in constant consultation with internal guide and external guide and prepare the project report as per the norms of the university to avoid plagiarism. Phase II of a project typically involves the detailed execution of the planned activities, continuous monitoring and control of the project's progress, and making necessary adjustments to ensure the project stays on track.

Dissertation: The objectives of a dissertation are to provide a comprehensive understanding of the research topic, demonstrate the student's ability to conduct research, and present the findings in a structured manner.

Technical Seminar: The objectives of an M. Tech CSE technical seminar are to providing students with a comprehensive understanding of theoretical foundations and advanced concepts in computer science, fostering a research-oriented mindset and encouraging engagement in cutting-edge projects.