Quick Links

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M. Tech. in CSE

M. Tech. Programme students, irrespective of their discipline, must do a minimum of 32 credits through course work and a minimum of 36 credits through research (thesis) work.

PG Programme students come to LNMIIT from different institutions across India. Keeping their diversified background in mind, institute PG Programmes offer 3 to 4 mandatory courses that will provide a common and strong foundation to all the students.

Research work is carried out in the following fields (including but not limited to):

- Artificial Intelligence: Intelligent Systems, Wearable computing
- Computational Sciences: Computational Geometry, Computational Neuroscience and Modeling & Simulation
- Computer Security: Cyber Security, Cryptology, Digital Forensics
- Data Science: Data Mining, Machine Learning, Pattern Recognition, Social Media Analytics
- Image/Signal Processing and Computer Vision: Medical image/signal processing, Bio-metrics, Image Retrieval
- Networks: Ad-Hoc Networks, Cloud Computing, Distributed Computing, IoT/CPS, Computer and Network Security, Software Defined Networking
- Software Engineering: Model Based Software Engineering, Software Testing
- Protocol Engineering, ITS

Program Outcomes (POs) of M. Tech. in CSE

The main outcomes of the CSE (M.Tech.) program are given here. At the end of the program a student is expected to have:

1. Understanding of the theoretical foundations and the limits of computing.
2. Ability to adapt existing models, techniques, algorithms, data structures, etc. for efficiently solving problems.
3. Ability to design, develop and evaluate new computer based systems for novel applications which meet the desired needs of industry and society.
4. Understanding and ability to use advanced computing techniques and tools.
5. Ability to undertake original research at the cutting edge of computer science & its related areas.
6. Ability to function effectively individually or as a part of a team to accomplish a stated goal.
7. Understanding of professional and ethical responsibility.
8. Ability to communicate effectively with a wide range of audience.
9. Ability to learn independently and engage in life-long learning.
10. Understanding of the impact of IT related solutions in an economic, social and environment context.

Program Educational Objectives (PEOs) of M. Tech. in CSE

PEO1: Be able to apply advanced principles of computer science and engineering to solve real world research and development problems in industry and academia.

PEO2: Be able to engage in research and use state-of-the-art tools, models and technologies to solve computing problems.

PEO3: Be able to engage in life-long learning by adapting to scientific, technological, and innovative advancements.

PEO4: Be able to demonstrate communication skills, team spirit, and leadership qualities.

PEO5: Be a responsible professional by being aware of contemporary socioeconomic, cultural, and ethical issues.

Program Specific Outcomes (PSOs) of M. Tech. in CSE

PSO1: Be able to apply the advanced concepts of mathematics, algorithms, and systems to efficiently solve problems.

PSO2: Be able to apply knowledge in emerging areas of computer science for research and development.

PSO3: Be able to conduct research and to innovate using state-of-the-art technologies to provide computing solutions for industry and society.

Semester-wise Curriculum for M.Tech Programme in CSE

M. Tech. in Computer Science & Engineering

1st Semester:

S. No.	Course Description	Type	L	T	P	Credits
1	Advanced Data Structures & Algorithms	PC	3	0	2	4
2	Mathematical Structures for Engineers	PC	3	0	0	3
3	Program Elective 1++	PE	3	0	0	3
4	Program Elective 2++	PE	3	0	0	3
5	Program Elective 3	PE	3	0	0	3
						Total Credits = 16

2nd Semester:

S. No.	Course Description	Type	L	T	P	Credits
1	Machine Learning & Pattern Recognition	PC	3	0	2	4
2	Technical Writing and Research Methodology	PC	4	0	0	4
3	Program Elective – 4##	PE	3	0	0	3
4	Program Elective – 5##	PE	3	0	0	3
5	Program Elective – 6	PE	3	0	0	3
						Total Credits = 17

3rd Semester:

S. No.	Course Description	Type	L	T	P	Credits
1	M. Tech. Thesis I	PC	0	0	18	9
2	Program Elective – 7	PE	3	0	0	3
3	Open Elective	OE	3	0	0	3
						Total Credits = 15

4th Semester:

S. No.	Course Description	Type	L	T	P	Credits
1	M. Tech. Thesis II	PC	0	0	36	18
						Total Credits = 18

Total Credits	66

++ Courses only from Bucket 1

Courses only from Bucket 2

Program Electives 3, 6, 7 from Bucket 3

Tentative List of Program Electives:

Bucket 1

1. Information Retrieval & Web Search
2. Introduction to Data Science
3. Data Mining
4. Artificial Intelligence

Bucket 2

1. Image Processing & Applications
2. Natural Language Processing
3. Social Network Analysis
4. Recommender Systems
5. Biomedical Engineering

Bucket 3

1. Optimization Techniques
2. Applied Cryptography
3. Real Time Systems
4. Information Security
5. Cyber Security
6. Wireless Sensor Network
7. Internet of Things
8. Deep Learning
9. Principles of Evolutionary Computing
10. Information & Coding Theory

OTHER LINKS

- Director's Message (../../aboutus/directorsmessage.html)
- Photo Gallery (../../Photo_Gallery.html)
- Webmail (https://www.google.com/a/lnmiit.ac.in)
- Course Management System (../../Course_Management.html)
- Bus Time Table (../../Bus_Time_Table.html)
- Foundation (../../aboutus/foundation.html)
- WAY TO LNMIIT (../../uploaded_files/Way to LNMIIT.pdf)
- Plagiarism Prevention Software (../../Library/plagiarism_prevention_software.html)
- Rules & MOA (../../Rules_MOA.html)
- Tender Notification (../../Tender_Notification.html)
- Sankalp (https://sankalp.lnmiit.ac.in/)
- UGC (https://www.ugc.ac.in/)
- ASME LNMIIT (https://asme.lnmiit.ac.in)
- Counselling Cell (../../Councelling Cell.html)
- CSI (https://csi.lnmiit.ac.in)
- Vivacity (https://vivacity.lnmiit.ac.in/)
- E-Cell (https://ecell.lnmiit.ac.in/)
- SAE LNMIIT (https://saeindia.lnmiit.ac.in/)
- IEEE Student Branch (https://ieee.lnmiit.ac.in/)
- IUPC (https://iupc.lnmiit.ac.in/)
- Plinth (https://plinth.lnmiit.ac.in/)
- Innovation Club (https://innovationclub.lnmiit.ac.in/)
- Desportivos (https://desportivos.lnmiit.ac.in/)
- Archive Information (https://www.lnmiit.ac.in/Archive.aspx)

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