www.lnmiit.ac.in

LNMIIT
The LNM Institute of
Information Technology

Excellence Our Motto
Discipline Our Way



Institute Brochure 2021-22

THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

(An institute of higher learning that is deemed to be a university under section 3 of UGC Act 1956)

A Joint Venture of Lakshmi & Usha Mittal Foundation and Govt. of Rajasthan
NAAC Accreditation - 'A' Grade
AICTE Approved Engineering Programmes

Realizing Dreams

Pursuing Excellence for a Bright Future

Commitment to High Quality Education

Admission

- Only merit based admission
- No management quota
- No capitation fee

UG: Modes of Admission

- Regular Mode
- Direct Mode (For Board Toppers)
- DASA Mode (For Foreign Nationals/ Overseas Citizens of India/ Non-Resident Indian/ Children of Indian Workers in Gulf Countries)
- Lateral Entry Mode (For admission to 2nd year undergraduate programmes)

Alumni

Out of Alumni living abroad about 64% are in North America, 21% in Europe, and the rest in Singapore, China and Australia.

Industry-Academia Interaction

- Industry Oriented Courses
- Co-branded Labs with TI, IBM, KPIT, ARM, and Intel
- Student Exchange Programs with foreign universities

Scholarships and Assistantships

- UG: Merit, BPL scholarships, four types of assistantship
- PG: Merit-cum-Means, and various other teaching/research Assistantships, MHRD and AICTE scholarships for GATE qualified candidates as per MHRD rules
- Ph.D.: Institute fellowship, Sponsored research fellowship, CSIR/UGC-NET-JRF, DST-INSPIRE, NBHM Ph.D. scholarship

PG & Ph.D. Admission

- MTech & MS (by Research): Based on valid GATE score or performance in written test
- MSc: Based on interview score
- Ph.D.: Written test followed by interview; Candidates with valid national level fellowships may be exempted from written test.

Research

- Fifteen Specialized Centres
- Funded research projects from various funding agencies worth more than 8 crores
- Collaboration with multiple research labs, universities in India and Abroad

Accreditation and Ranking

NAAC

Accredited in 2016 with 'A' grade

AICTE

AICTE Approved Engineering Programmes

Education World Ranking 2021

- 2nd rank in Rajasthan among Private Engineering Institutes
- 10th rank in Industry Interface in Private Engineering Institutions
- 15th rank among top Private Universities
- 18th rank in top Private Engineering Institutions

India Today Ranking 2021

- 3rd rank in Private Engineering Colleges with Best Placements
- 10th rank in top 10 Emerging Private Colleges
- 31st rank among Private Engineering Colleges

The Week Ranking 2020

- 5th rank in Private Engineering College-North Zone
- 36th rank in Private Engineering Colleges in India
- 65th rank in Best Engineering Colleges in India

Internships & Placement

Placement* (as on July 2021):
Highest Package: 58.85 LPA,
Median Package: 8.65 LPA,
Average Package: 11.25 LPA

*Ongoing

Major recruiters for internships and placements:

Amazon, Google, Microsoft, Adobe, Samsung, ArcelorMittal for India and abroad operations

Internships :

- Semester-Long Internships
- On-campus/off-campus Industrial /research Internships
- LUSIP (LNMIIT Undergraduate Summer Internship Program)

Students' Achievements:

Google Summer of Code, Google Venkat Scholarship, Grace Hopper Celebration student scholarship, Red Hat Women Open Source Award, Tata Crucible, Smart India Hackathon, SMC Mechatronics Cup, Student Start-up Exposure Programme, Niti Aayog Mentor of Change, ACM ICPC etc.

Start-ups by LNMIITians:

Lucideus, InstaCash, BigStep, Nutrino, Dream Animator, Zubi Infotech, iDeepners, Veris

Infrastructure

Library

- Approx. 20000 text and reference books
- Access to approx. 48100 e-journals
- Institutional membership of National Digital Library of India with access of more than 1,00,00,000 learning resources

Connectivity

- Internet connectivity: 1 Gbps leased line, 1 Gbps connectivity through Natonal Knowledge Network (NKN)
- Wired and Wi-Fi enabled campus

Computing

- NVIDIA DGX Supercomputer with 1.x Peta FLOPs speed
- High-Performance Computing facility of 140 computing cores on 7 nodes
- GPU, NAS and SAN facility

Teaching-Learning

- High definition IP based multi-party video conferencing facility
- Online Teaching-Learning support including live, flipped and blended modes of delivery
- Learning Management System with support for Proctored, Online and Offline examination

Hostel

- Four boys' and one girls' hostel
- Semi furnished, air-cooled hostel rooms with Internet facility
- Three air-cooled Messes
- Mini in-campus shopping complex

Medical

- In-house medical unit with Resident Doctor, three supporting nursing staff & visiting specialised doctors
- Emergency care room, Physiotherapy room, well-equipped ambulance
- Group medical insurance policy for students

Sports

- Students' Activity Centre with in-door sports facility: Table tennis, Badminton, Squash court, Gymnasium
- Out-door sports facility like Cricket, Football, Basketball, Volleyball, Lawn Tennis, Kabaddi
- 3 Open Air Gym and 1 Mini Gym in Girls' Hostel

Surveillance

- Fully residential campus with IP based video surveillance
- Biometric based identification system

Director's Welcome Note



Dear Prospective Student,

Thank you for choosing to consider the LNMIIT as part of your exploration process for identifying your next learning enabler!

Established in 2002, as an institution of higher learning jointly by the State Government of Rajasthan (India) and the Lakshmi & Usha Mittal Foundation of the well-known steel magnate and industrialist Padma Vibhushan Mr. Lakshmi N. Mittal, the LNMIIT Jaipur started operating from the academic session 2003-04, became an institution that is deemed to be a university (by the UGC) in 2006. It was accredited by the NAAC in 2016, with an 'A' grade. All its engineering and technology programmes are also approved by the AICTE.

Any institution of higher learning needs to enable and celebrate diversity in so many ways; ranging from diversity of learning interests, pedagogy, opportunities, culture, flexibilities and opportunities to diversity of constructive thoughts and informed views. All these need to be achieved while maintaining a due balance between all aspects that could enable a young boy or girl to evolve as a good human being and a responsible citizen, with a 'can do' attitude and sound knowledge in her / his chosen domain. At the LNMIIT Jaipur, we celebrate merit, diversity, ethics, self-discipline and a deep sense of purpose as well as responsibility.

Even during this pandemic that has affected most of the world for over a year, it has been heartening to see the way the Institute has responded to the challenges posed by these trying times. The true inner strength and the real character of the LNMIIT as a cohesive unit has come out. Thanks to outstanding cooperation, hard work, ideas, initiatives and understanding by every single member of faculty, staff, students, alumni, collaborators and even recruiters, a resilient ecosystem has evolved. It is in deed a matter of pride that the Team LNMIIT has been able to weather the obstacles caused and challenges posed by this pandemic and beyond.

If you are looking for a place where merit is the only way to get in and where you would have to burn midnight oil to learn and continually learn well in your chosen areas and graduate as a conscientious and able scientist, technologist, engineer, entrepreneur or someone who also evolves as a storyteller, a litterateur, photographer, dancer, painter or sportsperson with an ability to solve today's and tomorrow's problems with her / his knowledge and attitude, you are warmly welcome to the LNMIIT.

Come, join us and enjoy the ambience, diversity and richness that comes so naturally to the vibrant environment that is characteristic of the LNMIIT!



Professor Rahul Banerjee, PhD, FIE, FIETE
Director

Jaipur - Smart Heritage City

Jaipur, known globally as Pink City, stands as a splendid amalgamation of the rich cultural heritage and the thriving new technologies in India. While in the past, Jaipur has been one of the magnificent examples of late medieval trade towns, in contemporary times, it is unique in wonderfully blending the living traditions with the emerging technologies. Earning the recognition of being a 'UNESCO World Heritage Site' in July 2019, Jaipur is also being redefined as a 'smart city' that aims to provide a world class smart heritage zone by preserving old heritage buildings along with the provisions of smart and sustainable infrastructure solutions. Today, Jaipur is famous for promoting multi modal mobility to improve road congestion levels and improve public hygiene and cleanliness.

As part of embellishing Jaipur as a 'Smart Heritage City', there are many areas in which major works are envisioned and will soon be accomplished. One of the most prominent works in this regard is the adaptive reuse of heritage structures. In this regard, rejuvenation of Talkatora lake in Baoris; improvement of heritage walks and Bazaar Street façade; and setting of green roof tops on some of the old buildings are few examples. Besides this, efforts are also been initiated to integrate common mobility card for monument entry payments and develop Heritage App with QR Code for monument information. Promoting and enhancing NMT mobility, multimodal integration of fare and physical design, and setting up of smart IPT Stands and App are the other prominent projects included in the overarching vision of re-constructing Jaipur as a 'smart heritage city' of India.



source : www.inditrip.com

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About the Institute

The LNMIIT was founded in 2002 as a joint venture between Govt. of Rajasthan and Lakshmi & Usha Mittal (LUM) Foundation as a philanthropic initiative. With the emphasis on quality and rigour in education, the Institute began its first academic session in July 2003 and was granted Deemed-to-be-University status by UGC in 2006 under the De-Novo category. The Institute, in spite of being young, is considered as one of the best institutions in its chosen areas of higher learning, both in the state and the country. In addition to having been accredited by the National Assessment & Accreditation Council (NAAC) as an 'A' grade institution, all the engineering programmes of the institute are approved by the AICTE. The 100-acre green residential campus is located in a serene atmosphere on the outskirts of India's pink city, Jaipur. Till now, more than 3000 students have graduated from the undergraduate (B.Tech., B. Tech. - M. Tech. (5 Year Integrated Dual Degree) programmes and nearly 150 students from the postgraduate (M.Tech., M.S. by Research, M.Sc.) and 20* students have been awarded Ph.D. degree. Currently, the Institute has 2075 undergraduate students; 43 postgraduate and 79 Ph.D. candidates. Girls constitute more than 16% of the total strength.

The Institute is guided, in broad terms, by its Governing Council (GC) which is headed by its Founding Chairman, Padma Vibhushan Mr. L. N. Mittal, who is also the Executive Chairman of ArcelorMittal, one of the largest multinational steel and mining companies, apart from having his interests in petrochemical and energy sector through HMEL, a joint enterprise of HPCL and Mittal Energy Ltd.





Vision, Mission, and Strategic Plan

"Excellence Our Motto Discipline Our Way"

VISION

- To establish a world class platform for creation of knowledge through quality research and its dissemination through technologically enabled teaching–learning pedagogy in the field of science, technology, engineering, arts and management.
- To become a catalyst in societal and national development, by ensuring continuous interaction with industry and other academic and research institutions in India and abroad.

MISSION

- To offer state of the art undergraduate programmes in IT & ITES as well as core disciplines (CSE, CCE, ECE, ME) with emphasis on strong fundamentals.
- To establish centres of excellence in emerging areas to provide significant breakthrough required to solve real world problems.
- To make The LNMIIT the most preferred institute for higher education across the country.
- To create intellectual property through innovations, quality research publications and patents.
- To instill core values of excellence, integrity, teamwork, professional ethics and environmental concerns.
- To foster and nurture leadership and entrepreneurial qualities and lifelong learning amongst students, research scholars, faculty and staff of The LNMIIT.

STRATEGIC PLAN

The LNMIIT aspires to create a niche for itself in both Indian and global arenas by adopting a multi-disciplinary approach with a focus on contemporarily relevant as well as emerging areas of research, development, teaching-learning, entrepreneurship, outreach and collaboration while maintaining an ecosystem that would ensure work-life balance of its people (faculty & staff) and enable well-rounded personality development of its students.

This shall be achieved with the help of a sustainable strategic plan involving long-term, medium-term and short-term milestones, named as 'Mission-2021', 'Mission-2025', 'Mission-2030' and Mission-2035'.



Governing Council

The Governing Council (GC) of The LNMIIT, Jaipur is its apex mentoring and decision-making body. It has an array of distinguished academicians, corporate leaders, and top bureaucrats as its members.



Chairman (Chancellor)
Padma Vibhushan Shri Lakshmi Niwas Mittal,
Executive Chairman, Arcelor Mittal



Mr. Prabh Das (Ex-IAS)
Member
(LUM Foundation)
MD & CEO – HMEL



Mr. Niranjan Kumar Arya, IAS
Member (Ex-Officio)
Chief Secretary,
Government of Rajasthan



Mr. Rajan Tandon
Member
(LUM Foundation)
Vice President (Finance)
Mittal Investment U.K. Limited.



Mr. Akhil Arora, IAS
Member (Ex-Officio)
Principal Secretary, Department of Finance, Government of Rajasthan



Mr. V. Krishnan
Member
Talent Development Specialist &
Performance Consultant
(Former Head - Learning Shared
Services, HCL Technologies Limited)



Shri N L Meena, IAS
Member (Ex-Officio)
Secretary, Higher and Technical
Education Department, Government
of Rajasthan



Prof. Arjun Dasgupta
Member (UGC Nominee)
Former Professor,
Department of Library & Information
University of Calcutta



Prof. Narendra Ahuja
Member
(Academic Institution), Donald Biggar
Willett Professor Emeritus, University
of Illinois at Urbana-Champaign



Prof. Pankaj Jalote
Member
(Academic Institution)
Distinguished Professor, Indraprastha
Institute of Information Technology
(IIIT) Delhi



Prof. B. Ravi
Member
(Academic Institution)
Chair Professor, Indian Institute of
Technology, Bombay,



Prof. J. P. Sharma
Member
(Academic Institution)
Former Vice Chancellor of GBU,
Greater Noida



Dr. Narendra Kumar
Member (Ex-Officio)
Dean of Academic Affairs
(In-charge),
The LNMIIT, Jaipur



Prof. Rahul Banerjee
Member Secretary (Ex-officio)
Director, The LNMIIT, Jaipur

Deans, Heads of the Departments & Key Persons

Deans

Dr. Narendra Kumar
Dean of Academic Affairs (In-charge)

Prof. Mohan K. Kadalbajoo
Dean of Faculty Affairs

Dr. Subrat K. Dash
Associate Dean of Admission & Placement

Prof. G. D. Sharma
Dean of Sponsored Research & Consultancy

Dr. Nikhil Sharma and Dr. Sandeep Saini
Assistant Deans of Academic Affairs

Prof. Somnath Biswas
Dean of Academic Research

Dr. Sunil Kumar
Assistant Dean of Admission & Placement

Prof. Anupam Singh
Dean of Student Affairs

Mr. Vikas Bajpai
Assistant Dean of Alumni Affairs & Resource Generation

Prof. Manju Dhariwal
Dean of Alumni Affairs & Resource Generation
Dean of International Students' Relations

Heads of the Departments

Prof. Raghuvir Singh Tomar
Electronics & Communication Engineering

Dr. Preety Singh
Computer Science & Engineering

Dr. Usha Kanoongo
Humanities & Social Sciences

Dr. Ashok Kumar Dargar
Mechanical-Mechatronics Engineering

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Academics

The Institute has developed a flexible, largely modular and modern curricular structure for all its programmes. Several relevant recommendations of learned bodies like ACM, IEEE, and ASME as well as the model curriculum from the AICTE, apart from several relevant recommendations by the UGC and the New Education Policy have been kept in view in the process of creation of the associated teaching-learning framework that goes with this curricular structure. The Institute has also benchmarked its curriculum with some of the best institutions in the country and abroad. This exercise has been already completed for few programmes, whereas for the remaining programmes such an exercise is in pipeline. The LNMIIT has decided to undertake periodic audit of its programmes that would involve external experts from academia and industry along with the internal faculty. These practices, in a broader sense, incorporate the Learning-outcome based Curriculum Framework (LOCF) of the UGC. Some of the unique features and important elements of our academic process are highlighted below.

Curriculum Design and Development process

- The curriculum is revised at regular intervals, typically every three to five years through a structured academic audit for several of its programmes by involving renowned academicians/industry experts at the institute level and from outside. However individual courses may be more frequently updated or revised, as per need. For instance, an advanced elective course may be even revised or updated every alternate semester/term.
- Stakeholders' feedback is regularly sought to figure out the emerging needs and changing trends through alumni and industry feedback during the placement activities through placement cell as well as through the various members of different governing bodies of the Institute. On a regular basis every semester student feedback is taken through a structured process, typically twice in a given semester, for every course and instructor. Of late, the Institute has also begun conducting the Student Satisfaction Survey for outgoing batches.
- Typically, discussions about individual courses and curricular structure begin at the individual faculty and department level respectively, get duly deliberated at the Board of Studies (BoS) from the discipline-specific point of view, at the Academic Affairs Committee (AAC) level from the overall perspective and finally discussed, deliberated and finalized at the level of the Academic Council (AC).
- The curriculum for undergraduate programmes was revised in a major way in 2017. In the academic session 2019-20, curricula of M.Sc. Physics, M.Tech. and M.S. (by Research) in Computer Science & Engineering had been revised. Currently a major Curriculum audit and restructuring is under way.

Introduction of B. Tech. (Hons.) with Specialization

- The institute has introduced B. Tech. (Hons.) with specialization in Artificial Intelligence and Data Science for eligible and selected undergraduate students of Computer Science Engineering (CSE) and Communications and Computer Engineering (CCE). In addition B. Tech. (Hons.) with specialization in Robotic and Automation for eligible and selected undergraduate students of Mechanical Engineering.
- The specialization may be earned by the admitted students upon completion of 18 additional credits and it will enable the students to be ready for new-age job market and/or research careers in the niche areas.

Introduction of Minors at the Undergraduate Level

- The Institute has introduced Minors programme for eligible and select undergraduate students with effect from the academic year 2020-21 in the following areas : Robotics and Automation, Artificial Intelligence & Data Science.
- These Minors may be earned by students admitted to them by the way of doing six to eight additional courses in these specific areas.

Facilitation of Online Courses

- Institute offers online courses, as per need. Other than classroom instructions, the teaching-learning elements include critical thinking, self-learning and assessment through flipped/blended classroom model, design thinking and project-based courses with due emphasis on theory, design and practice, group projects and presentations for fostering peer-learning, team building and interpersonal communication, depending upon the nature of specific courses.

- Elective Courses, most often, use projects and seminars as an integral part of course delivery and evaluation. Use of LMS and communication platforms such as Moodle™, Piazza™, Google Classroom™ etc. also enhance the delivery.
- In addition, online support is a also available and is used as per need.
- The institute also allows select MOOC courses of good quality to be taken by students, as approved by the Academic Council. Typically, such courses require planned proctored examinations.

Choice-Based Credit System (CBCS)

- All programmes involve CBSC and do offer combinations of Institute Core (IC), Programme Core (PC), Programme specific Electives (PE) and Open/Other Elective (OE) options.
- Although, in our undergraduate programmes of four-year (8-semester) duration, the curriculum provides flexibilities like accelerated completion for high performing and adequately prepared students, provision is also there for an academic pause in cases like entrepreneurial ventures, verified medical conditions, etc. There is also a provision for slower progression for academically underprepared or not so well performing students.

Internship Policy

The institute has four possible avenues of internship of the following kinds:

- Off-campus industrial internship.
- Off-campus research internship at recognised research laboratories/institutions.
- Industry/academic research internship on-campus but with involvement of at least one external member along with a faculty member.
- A field internship with a pre-approved NGO for a credible duly approved start-up or a recognised Government/ Semi-Government body.

In addition, those who may have specific inclination and aptitude for creating their own entrepreneurial ventures/start-ups could actually divide their period of entrepreneurial internship into one or more period of 2-6 months duration depending upon the academic time-lines permitted by the curricular structure.

In terms of specific time slots, the following internship options will be available to eligible and duly prepared students:

- Three summer internships in first year, second year and third year (at the end of 2nd, 4th and 6th semesters).
- One semester-long internship period in their final year of undergraduate study or year before.
- In select cases, with specific well-planned value addition focus, short duration internship during winters may be an additional option available subject to availability of required number of slots and eligible students.

Research-oriented Learning

The Institute has the following research-oriented learning opportunities that indicate the presence of an eco-system that supports interdisciplinary learning and research:

- The Institute has signed MoUs with several research and development organizations as well as with industrial research laboratories and institutions of higher learning/universities in keeping with its strategy to remain relevant both nationally and globally. Under many of these arrangements, its faculty members and students may make use of these provisions for furthering their research and development work. Even exploratory interactions and internships are possible in such cases.
- Some of the MoUs allow for the faculty and student exchanges as well as for collaborative research and development.
- Many faculty members have research collaborations at national and international levels and do offer short and long term projects to interested students. At times, a research organization or an industry brings its problem to the institute to be solved by faculty and students. If adequately prepared, some students may take advantage of such opportunities under the guidance of the faculty member.

Programmes

Bachelor of Technology (B.Tech.)	• Computer Science and Engineering (CSE) • Electronics and Communication Engineering (ECE) • Communication and Computer Engineering (CCE) • Mechanical Engineering (ME)
B. Tech. (Hons.)	• CSE with specialization in Artificial Intelligence & Data Science • CCE with specialization in Artificial Intelligence & Data Science • ME with specialization in Robotics & Automation
Minors	• Artificial Intelligence & Data Science (For B.Tech. ECE & ME students) • Robotics & Automation (For B.Tech. CCE, CSE and ECE students)
Bachelor of Technology–Master of Technology (B.Tech.-M.Tech.) (5-year Integrated Dual Degree)	• Computer Science and Engineering (CSE) • Electronics and Communication Engineering (ECE)
Master of Technology (M.Tech.)	• Computer Science and Engineering (CSE) • Electronics and Communication Engineering (ECE)
Master of Science (M.S.) by Research	• Computer Science and Engineering (CSE) • Electronics and Communication Engineering (ECE) • Communication and Computer Engineering (CCE)
Master of Science (M.Sc.)	• Mathematics (MTH) • Physics (PHY)
Doctor of Philosophy (Ph.D.)	• Computer Science and Engineering (CSE) • Electronics and Communication Engineering (ECE) • Mechanical-Mechatronics Engineering (MME) • Humanities and Social Sciences (HSS) • Mathematics (MTH) • Physics (PHY)



Departments

Computer Science & Engineering (CSE)

Computer Science & Engineering (CSE) discipline was established in the year 2008. The Department is ably supported by a team of faculty members having degrees from reputed institutes and excellent research credentials. The department currently has 29 faculty members, which include 1 Emeritus Professor, 1 Distinguished Professor, 2 Visiting Professors, 1 Professor, 4 Associate Professors and 18 Assistant Professors and 2 Assistant Professors as contractual faculty.

Programmes Offered

The Department offers the following undergraduate and graduate programmes:

- B.Tech. in CSE
- B. Tech. (Hons.) in CSE with Specialization in Data Science & Artificial Intelligence
- B. Tech. - M. Tech. (5- Year Integrated Dual Degree) in CSE
- Minor in DS & AI for (non-CSE/CCE students)
- M. Tech. in CSE
- M.S. (by Research) in CSE
- Ph.D.

Curriculum Highlights

The strength of each of the programmes lies in its progressive curriculum that offers flexibility to students to carefully select a set of program/other/ open electives to earn specialized knowledge in areas of their choice in all PG and UG programmes. We emphasize on hands-on based learning to bridge the gap between academia and industry. Projects and theses are encouraged to deal with real-world problems using emerging technologies. To enhance student learning, Department regularly organizes workshops and lectures by experts from renowned institutes, industries and organizations.

- **Specialization in Artificial Intelligence and Data Science**

The specialization track provides an opportunity to students to specialize in this emerging domain by choosing a select set of additional courses. This specialization will enable them to innovate and solve real-life problems in the areas of Artificial Intelligence and Data Science. It addresses the need of equipping students with skill-sets in accordance with the new-age job requirements. This is an optional track for B.Tech. (CSE) and B.Tech. (CCE) students only, leading to B. Tech. (Hons.)

- **Minor in Artificial Intelligence and Data Science**

The Department offers a Minor in the domain of Artificial Intelligence and Data Science to B.Tech. (ECE) and B.Tech. (ME) students to equip them with the required knowledge and enable them to be job-ready for related opportunities available in the industry. List of Additional Credit Courses for Minor in Artificial Intelligence & Data Science.

Course	(L-T-P-C)
Probability & Statistics (For ME students ONLY)	Audit
Third Semester	
• Discrete Mathematical Structures	Pass/Fail
Fourth Semester	
• Design and Analysis of Algorithms	Pass/Fail
Fifth Semester	
• Introduction to Data Science	3-0-0-3
• Data Science Lab	0-0-2-1

Course	(L-T-P-C)
Sixth Semester	
• Machine Learning	3-0-0-3
• Machine Learning Lab	0-0-2-1
Seventh Semester	
• Artificial Intelligence	3-0-0-3
• Artificial Intelligence Lab	0-0-2-1
• Introduction to Big Data	2-0-2-3
Eighth Semester	
• Capstone project	3-0-0-3
• Ethics in Artificial Intelligence & Data Science	1-0-0-1

Computing Infrastructure

With a focus on holistic development, the department enables an environment to learn various IT technologies including programming environment, distributed environment (HPC, GPU), software development tools, design environment etc. In order to facilitate these, the department has rich hardware infrastructure including high performance computing system (seven nodes with 140-core), GPU server, Computing servers, Storage server (NAS, SAN). An NVIDIA DGX supercomputing unit with Deep Learning / AI framework support and can run at higher than 1x PFLOP has been recently added to the Department. There are four big computing laboratories with around 300 high-end computing nodes, dedicated research laboratory for M. Tech. and Doctoral students.

The department has different compilers, Network Simulators, CPU Simulators, Scientific softwares in addition to experimental toolkits related to IoT, Image Processing, Data Analytics. Department also provides access to computational resources beyond working hours to encourage self-learning, hands-on practice and innovation.

B. Tech. in Computer Science & Engineering (CSE)

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Mathematics – II	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Data Structures & Algorithms	IC	3	0	0	3
Data Structures & Algorithms Lab	IC	0	0	2	1
Value Education and Ethics	IC	3	0	0	3
Environmental Ecology & Biology	IC	2	0	2	3
Discrete Mathematical Structures	PC	3	0	0	3
Digital Systems	PC	3	0	0	3
Introduction to Modern Physics	OE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Economics for Engineers/ Psychology, Tech. & Society	IC	3	0	0	3
Com. Organization & Architecture	PC	3	0	2	4
Advanced Programming	PC	3	0	2	4
IDBMS	PC	3	0	2	4
Optimization Techn. & Applications	PC	3	0	0	3

4th Semester

Courses	T	L	T	P	C
Economics for Engineers/ Psychology, Technology & Society	IC	3	0	0	3
Probability and Statistics	PC	3	1	0	4
Design and Analysis of Algorithms	PC	3	0	0	3
Theory of Computation	PC	3	0	0	3
Operating Systems	PC	3	0	1	4
Computer Networks	PC	3	0	1	4
Program Elective – 1	PE	3	0	0	3

5th Semester

Courses	T	L	T	P	C
Artificial Intelligence	PC	3	0	0	3
Computer Security	PC	3	0	0	3
Introduction to Data Science	PC	3	0	0	3
Software Engineering	PC	3	0	0	3
Integrated Software Devel. Lab	PC	0	0	3	2
Program Elective – 2	PE	3	0	0	3
Program Elective – 3	PE	3	0	0	3

6th Semester

Courses	T	L	T	P	C
Compiler Design	PC	3	0	0	3
B.Tech. Project	IC	3	0	0	3
Program Elective – 4	PE	3	0	0	3
Program Elective – 5	PE	3	0	0	3
Program Elective – 6	PE	3	0	0	3

7th Semester

Courses	T	L	T	P	C
B.Tech. Project	IC	3	0	0	3
Program Elective – 7	PE	3	0	0	3
Program Elective – 8	PE	3	0	0	3
Other Elective – 1	OE	3	0	0	3
Other Elective – 2	OE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
Program Elective – 9	PE	3	0	0	3
Other Elective – 3	OE	3	0	0	3
Other Elective – 4	OE	3	0	0	3

B. Tech. (Hons.) in CSE with Specialization in Data Science & Artificial Intelligence

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Communication in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Mathematics – II	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Data Structures and Algorithms	IC	3	0	0	3
Data Structures and Algorithms Lab	IC	0	0	2	1
Value Education and Ethics	IC	3	0	0	3
Environmental Ecology & Biology	IC	2	0	2	3
Discrete Mathematical Structures	PC	3	0	0	3
Digital Systems	PC	3	0	0	3
Introduction to Modern Physics	OE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Economics for Engineers/ Psychology, Technology & Society	IC	3	0	0	3
Com. Organization & Architecture	PC	3	0	2	4
Advanced Programming	PC	3	0	2	4
Information and Database Management Systems	PC	3	0	2	4
Optimization Techn. & Applications	PC	3	0	0	3

4th Semester

Courses	T	L	T	P	C
Economics for Engineers/ Psychology, Technology & Society	IC	3	0	0	3
Probability and Statistics	PC	3	1	0	4
Design and Analysis of Algorithms	PC	3	0	0	3
Theory of Computation	PC	3	0	0	3
Operating Systems	PC	3	0	2	4
Computer Networks	PC	3	0	2	4
Program Elective – 1	PE	3	0	0	3

5th Semester

Courses	T	L	T	P	C
Artificial Intelligence	PC	3	0	0	3
Computer Security	PC	3	0	0	3
Introduction to Data Science	PC	3	0	0	3
Software Engineering	PC	3	0	0	3
Integrated Software Devel. Lab	PC	0	0	3	2
Program Elective – 2	PE	3	0	0	3
Program Elective – 3	PE	3	0	0	3
Multiagent Systems	SC	3	0	0	3
Data Science Lab	SC	0	0	2	1
Artificial Intelligence Lab	SC	0	0	2	1

6th Semester

Courses	T	L	T	P	C
Compiler Design	PC	3	0	0	3
BTP	IC	3	0	0	3
Program Elective – 4	PE	3	0	0	3
Program Elective – 5	PE	3	0	0	3
Program Elective – 6	PE	3	0	0	3
Machine Learning	SC	3	0	0	3
Machine Learning Lab	SC	0	0	2	1
Specialization Elective 1	SE	3	0	0	3

7th Semester

Courses	T	L	T	P	C
BTP	IC	3	0	0	3
Program Elective – 7	PE	3	0	0	3
Program Elective – 8	PE	3	0	0	3
Other Elective – 1	OE	3	0	0	3
Other Elective – 2	OE	3	0	0	3
Introduction to Big Data	SC	2	0	2	3
Specialization Elective 2	SE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
Program Elective – 9	PE	3	0	0	3
Other Elective – 3	OE	3	0	0	3
Other Elective – 4	OE	3	0	0	3
Ethics in AI & DS	SC	1	0	0	1

B. Tech.-M. Tech. (5-year Integrated Dual Degree) (CSE)

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Mathematics – II	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Data Structures & Algorithms	IC	3	0	0	3
Data Structures & Algorithms Lab	IC	0	0	2	1
Value Education and Ethics	IC	3	0	0	3
Environmental Ecology & Biology	IC	2	0	2	3
Discrete Mathematical Structures	PC	3	0	0	3
Digital Systems	PC	3	0	0	3
Introduction to Modern Physics	OE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Economics for Engineers/ Psychology, Tech. & Society	IC	3	0	0	3
Com. Organization & Architecture	PC	3	0	2	4
Advanced Programming	PC	3	0	2	4
IDBMS	PC	3	0	2	4
Optimization Techn. & Applications	PC	3	0	0	3

4th Semester

Courses	T	L	T	P	C
Economics for Engineers/ Psychology, Technology & Society	IC	3	0	0	3
Probability and Statistics	PC	3	1	0	4
Design and Analysis of Algorithms	PC	3	0	0	3
Theory of Computation	PC	3	0	0	3
Operating Systems	PC	3	0	2	4
Computer Networks	PC	3	0	2	4
Program Elective – 1	PE	3	0	0	3

5th Semester

Courses	T	L	T	P	C
Artificial Intelligence	PC	3	0	0	3
Computer Security	PC	3	0	0	3
Introduction to Data Science	PC	3	0	0	3
Software Engineering	PC	3	0	0	3
Integrated Software Devel. Lab	PC	0	0	3	2
Program Elective – 2	PE	3	0	0	3
Program Elective – 3	PE	3	0	0	3

6th Semester

Courses	T	L	T	P	C
Compiler Design	PC	3	0	0	3
Program Elective – 4	PE	3	0	0	3
Program Elective – 5	PE	3	0	0	3
Program Elective – 6	PE	3	0	0	3
Other Elective – 1	OE	3	0	0	3

7th Semester

Courses	T	L	T	P	C
M. Tech. Thesis	PC	3	0	0	3
Program Elective – 7	PE	3	0	0	3
Program Elective – 8	PE	3	0	0	3
Program Elective – 9	PE	3	0	0	3
Other Elective – 2	OE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
M. Tech. Thesis	PC	3	0	0	3
Program Elective – 10	PE	3	0	0	3
Program Elective – 11	PE	3	0	0	3
Other Elective – 3	OE	3	0	0	3
Other Elective – 4	OE	3	0	0	3

9th Semester

Courses	T	L	T	P	C
M. Tech. Thesis	PC	9	0	0	9
Program Elective – 12	PE	3	0	0	3

10th Semester

Courses	T	L	T	P	C
M. Tech. Thesis	PC	9	0	0	9
Program Elective – 13	PE	3	0	0	3

M. Tech. in Computer Science & Engineering

1st Semester

Courses	T	L	T	P	C
Advanced Data Structures & Algo.	PC	3	0	2	4
Mathematical Structures for Engg.	PC	3	0	0	3
Program Elective 1	PE	3	0	0	3
Program Elective 2	PE	3	0	0	3
Program Elective 3	PE	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Machine Learning & Pattern Reco.	PC	3	0	2	4
Tech. Writing & Research Metho.	PC	4	0	0	4
Program Elective – 4	PE	3	0	0	3
Program Elective – 5	PE	3	0	0	3
Program Elective – 6	PE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
M. Tech. Thesis I	PC	0	0	18	9
Program Elective – 7	PE	3	0	0	3
Open Elective	OE	3	0	0	3

4th Semester

Courses	T	L	T	P	C
M. Tech. Thesis II	PC	0	0	36	18

List of Programme Electives

- Artificial Intelligence
- Approximation & Randomised Algorithms
- Big Data Analytics
- Cloud Computing
- Computer Graphics
- Compiler Optimization
- Computer Security
- Data Mining
- Enterprise Architecture
- Entrepreneurship Practice
- Functional and Non-Functional Testing
- Genetic Algorithms & Applications
- Introduction to Artificial Intelligence
- Introduction to Convex Optimization
- Information Retrieval
- Introduction to Randomized Algorithms
- Information Retrieval and Web Search
- Introduction to Simulation & Modeling
- Image Processing
- Introduction to Game Theory
- Mobile Ad Hoc Networks
- Machine Learning & Pattern Recognition
- Mathematical Structures for Engineers
- Multimedia Processing & Applications
- Machine Learning
- Malware: Threats and Analysis
- Multiagent Systems
- Natural Language Processing
- Network Security
- Optimization Techniques
- Optimization Techniques & Applications
- Parallel Computer Architecture
- Principles of Programming Languages
- Real Time Systems
- Software Metrics and Design Strategies
- Social Network Analysis
- Soft Computing
- Unconventional Models of Computation
- Wireless Sensor Networks

List of Specialization Electives

- Analytics for Internet of Things
- Computer Vision & Applications
- Deep Learning
- Human-Computer Interaction
- Information Visualization
- Knowledge Graphs
- Knowledge Representation, Reasoning & Applications
- Mining Massive Datasets
- Natural Language Processing
- Reinforcement Learning
- Sequential Pattern Mining
- Social Network Analysis
- Security and Privacy in Data Science
- Other Relevant Electives

List of Other Electives (Available to all UG Programmes)

- Active Directory
- Algebra
- Automotive Electronics
- Autosar
- Basics of Finance and Soft Skills
- Bio-Medical Engineering
- Biosensors: Concepts and Applications
- Cinema and Indian Society
- Classical Mechanics and Field Theory
- Colonialism & the Making of Modern India
- Computational Physics
- Corpus Pragmatics
- Digital VLSI Circuits
- Electrical Machines & Power Systems
- Engineering Chemistry
- Entrepreneurship Practice
- Ethnic Conflict: Literature & South Asia
- French
- Graph Theory
- Green Communication and Networking
- Indian Modernity: Text & Context
- Industrial Engineering and Management
- Industrial Management
- International Economics and Soft Skills
- Internet of Things
- Introduction to Nano Science & Engg.
- Linear Algebra
- Logical and Critical Thinking
- Macro Economics for Managers
- Mathematical Physics
- Mathematical Structures for Engineers
- Modernism: Literary Representation
- Nano Technology
- Non Linear Dynamics and Chaos
- Natural Nano world: DFM
- Numeric Linear Algebra
- Numerical Analysis
- Numerical Methods
- Operation Research
- Optimization
- Organic Electronics & Opto Electronics: MA
- Organizational Behaviour
- Pervasive Computing
- Physics of Material
- Physics of The Universe
- Pragmatics in Social Media
- Solid State Physics
- Superconductivity: Basics & Applications
- System Dynamics and Control
- System Level Specifications and Design
- The Self: Aspects and Implications

Faculty Members



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Professor
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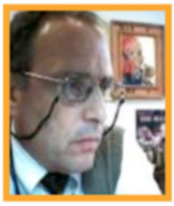
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Research Areas: Software Requirements Engineering, Software Testing, Software Quality Assurance, Architecting Software





Electronics & Communication Engineering (ECE)

The Department of Electronics and Communication Engineering (ECE) was established in the year 2008, with only 58 students and 6 faculty members. The department currently has 24 faculty members, which include 1 Research Professor, 1 Emeritus Professor, 3 Associate Professors and 19 Assistant Professors. Most of the faculty members are with Ph.D. degrees from different IITs, NITs, and other premier Institutions in India and Abroad. There is a blend of young and experienced faculty members, who are committed to provide quality education and research in the field of Communication and Signal Processing, VLSI and Embedded Systems Design, RF & Microwave, and greater few others areas. Along with this, the department has six laboratory staff who take care of different undergraduate and post-graduate laboratories.

Programmes Offered

The Department of ECE offers the following programmes:

- B. Tech. in Computer and Communication Engineering (CCE)
- B. Tech. (Hons.) in CCE with Specialization in Artificial Intelligence & Data Science.
- M. Tech. in ECE
- Ph.D.
- B. Tech. in Electronics and Communication Engineering (ECE)
- B. Tech. - M. Tech. (5- Year Integrated Dual Degree) in ECE
- M.S. (by Research) in CCE and ECE

Curriculum Highlights

All the students enjoy the academic freedom to choose their topics of interest, from an array of Elective Courses, through Program/ Open Electives. The courses under Program Electives are designed in such a way that it provides them the understanding of various domains of relevance, in which they may pursue the higher studies; whereas, the Open Electives are provided to broaden the horizon of knowledge. The faculty members are always encouraged to design and develop new courses, so that the students can get the maximum benefit of their rich experience and be exposed to current topics of higher learning. Additionally, the department offers academic flexibility to the students, which allow them to complete the credit requirement for the degree programme before the stipulated time and pursue their career interests in terms of semester-long academic internship or short term assignments in the reputed organizations. Additionally, an option of minor programme in Artificial Intelligence & Data Science and Robotics and Automation is available for B.Tech. ECE students, and option of minor programme in Robotics and Automation is available for B. Tech. CCE students. For details one may visit page no 12, 28.

Laboratory Facilities

The laboratories are well-equipped with quality hardware instruments and software platforms for the purpose of measurement, analysis, and simulations in various areas of research, i.e., Communication (in particular Mobile Communication), Signal Processing, RF and Microwave, VLSI, etc. In order to provide adequate training and exposure to the undergraduate and postgraduate students, the Dept. of ECE has the following laboratories - Basic Electronics Lab, Communication Lab, Microwave Lab, E-CAD Lab, DSP Lab, Microprocessor and Interface Lab. Moreover, for the postgraduate students, there is a PG Research Lab. The students use these laboratories for their regular lab courses as per the curriculum and utilize some of the equipment/ software beyond the regular class hours to complete the given projects and carry out research activities. Some of the Laboratories are technically supported by industrial leaders like National Instruments (NI), Texas Instruments (TI), Intel Intelligent Systems Laboratory, etc. Moreover, the ARM Lab University Program enable the students to use ARM technologies in microprocessors/ microcontrollers, Mechatronics, SoC design by providing teaching material, hardware platform, etc.



B. Tech. in Communication and Computer Engineering (CCE)

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Mathematics – II	IC	3	1	0	4
Data Structures & Algorithms	IC	3	0	0	3
Data Structures & Algorithms Lab	IC	0	0	2	1
Environmental Ecology & Biology	IC	2	0	2	3
Value Education and Ethics	IC	3	0	0	3
Analog Electronics	PC	3	0	0	3
Discrete Mathematical Structures	PC	3	0	0	3
Introduction to Modern Physics	OE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Com. Organization & Architecture	PC	3	0	2	4
Advanced Programming	PC	3	0	2	4
Signals and Systems	PC	3	0	0	3
Digital Circuits and Systems	PC	3	0	0	3
Digital Circuits and Systems Lab	PC	0	0	3	2
IDBMS	PC	3	0	2	4

4th Semester

Courses	T	L	T	P	C
Design and Analysis of Algorithms	PC	3	0	0	3
Operating Systems	PC	3	0	2	4
Control System Engineering	PC	3	0	0	3
Principles of Communication	PC	3	0	0	3
Signals & Systems and Comm. Lab	PC	0	0	3	2
Probability and Statistics	PC	3	1	0	4

5th Semester

Courses	T	L	T	P	C
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Introduction to Data Science	PC	3	0	0	3
Artificial Intelligence	PC	3	0	0	3
Digital Communication	PC	3	0	0	3
Digital Communication Lab	PC	0	0	3	2
Digital Signal Processing	PC	3	0	0	3
Digital Signal Processing Lab	PC	0	0	3	2
Software Engineering	PC	3	0	0	3

6th Semester

Courses	T	L	T	P	C
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Computer Networks	PC	3	0	2	4
Internet of Things	PC	3	0	2	4
B.Tech. Project	IC	3	0	0	3
Program Elective – 1	PE	3	0	0	3
Other Elective – 1	OE	3	0	0	3

7th Semester

Courses	T	L	T	P	C
B.Tech. Project	IC	3	0	0	3
Program Elective – 2	PE	3	0	0	3
Program Elective – 3	PE	3	0	0	3
Other Elective – 2	OE	3	0	0	3
Other Elective – 3	OE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
Program Elective – 4	PE	3	0	0	3
Other Elective – 4	OE	3	0	0	3

B. Tech. (Hons.) in CCE with specialization in Artificial Intelligence & Data Science

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Mathematics – II	IC	3	1	0	4
Data Structures and Algorithms	IC	3	0	0	3
Data Structures and Algorithms Lab	IC	0	0	2	1
Environmental Ecology & Biology	IC	2	0	2	3
Value Education and Ethics	IC	3	0	0	3
Analog Electronics	PC	3	0	0	3
Discrete Mathematical Structures	PC	3	0	0	3
Introduction to Modern Physics	OE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Com. Organization & Architectures	PC	3	0	2	4
Advanced Programming	PC	3	0	2	4
Signals and Systems	PC	3	0	0	3
Digital Circuits and Systems	PC	3	0	0	3
Digital Circuits and Systems Lab	PC	0	0	3	2
IDMS	PC	3	0	2	4

4th Semester

Courses	T	L	T	P	C
Design and Analysis of Algorithms	PC	3	0	0	3
Operating Systems	PC	3	0	2	4
Control System Engineering	PC	3	0	0	3
Principles of Communication	PC	3	0	0	3
Signals & Systems and Comm. Lab	PC	0	0	3	2
Probability and Statistics	PC	3	1	0	4

5th Semester

Courses	T	L	T	P	C
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Introduction to Data Science	PC	3	0	0	3
Artificial Intelligence	PC	3	0	0	3
Digital Communication	PC	3	0	0	3
Digital Communication Lab	PC	0	0	3	2
Digital Signal Processing	PC	3	0	0	3
Digital Signal Processing Lab	PC	0	0	3	2
Software Engineering	PC	3	0	0	3
Multiagent Systems	SC	3	0	0	3
Data Science Lab	SC	0	0	2	1
Artificial Intelligence Lab	SC	0	0	2	1

6th Semester

Courses	T	L	T	P	C
Computer Networks	PC	3	0	2	4
Internet of Things	PC	3	0	2	4
BTP	IC	3	0	0	3
Program Elective – 1	PE	3	0	0	3
Other Elective – 1	OE	3	0	0	3
Machine Learning	SC	3	0	0	3
Machine Learning Lab	SC	0	0	2	1
Specialization Elective 1	SE	3	0	0	3

7th Semester

Courses	T	L	T	P	C
BTP	IC	3	0	0	3
Program Elective – 2	PE	3	0	0	3
Program Elective – 3	PE	3	0	0	3
Other Elective – 2	OE	3	0	0	3
Other Elective – 3	OE	3	0	0	3
Introduction to Big Data	SC	2	0	2	3
Specialization Elective 2	SE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
Program Elective – 4	PE	3	0	0	3
Other Elective – 4	OE	3	0	0	3
Ethics in AI & DS	SC	1	0	0	1

B. Tech. in Electronics and Communication Engineering (ECE)

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Mathematics – II	IC	3	1	0	4
Data Structures and Algorithms	IC	3	0	0	3
Data Structures & Algorithms Lab	IC	0	0	2	1
Network Analysis & Synthesis	PC	3	0	0	3
Environmental Ecology & Biology	IC	2	0	2	3
Value Education and Ethics	IC	3	0	0	3
Analog Electronics	PC	3	0	0	3
Analog Electronics Lab	PC	0	0	3	2
Introduction to Modern Physics	OE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Semiconductor Devices & Circuits	PC	3	0	0	3
Signals and Systems	PC	3	0	0	3
Engineering Electromagnetics	PC	3	0	0	3
Digital Circuits and Systems	PC	3	0	0	3
Digital Circuits and Systems Lab	PC	0	0	3	2
Design Lab – 1	PC	0	0	3	2

4th Semester

Courses	T	L	T	P	C
Probability and Statistics	PC	3	0	1	4
Principles of Communication	PC	3	0	0	3
Signals & Systems & Comm. Lab	PC	0	0	3	2
Control System Engineering	PC	3	0	0	3
Microwave Engineering	PC	3	0	0	3
Microwave Engineering Lab	PC	0	0	3	2
Introduction to VLSI	PC	3	0	0	3

5th Semester

Courses	T	L	T	P	C
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Digital Communication	PC	3	0	0	3
Digital Communication Lab	PC	0	0	3	2
Microprocessors & Interfacing	PC	3	0	0	3
Microprocessors & Interfacing Lab	PC	0	0	3	2
Digital Signal Processing	PC	3	0	0	3
Digital Signal Processing Lab	PC	0	0	3	2
Program Elective - 1	PE	3	0	0	3

6th Semester

Courses	T	L	T	P	C
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Computer Networks	PC	3	0	2	4
Design Lab - 2	PC	0	0	3	2
Other Elective - 1	OE	3	0	0	3
Program Elective - 2	PE	3	0	0	3
Program Elective - 3	PE	3	0	0	3
B.Tech. Project	IC	3	0	0	3

7th Semester

Courses	T	L	T	P	C
B.Tech. Project	IC	3	0	0	3
Program Elective – 4	PE	3	0	0	3
Program Elective – 5	PE	3	0	0	3
Other Elective – 2	OE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
Program Elective – 6	PE	3	0	0	3
Other Elective – 3	OE	3	0	0	3
Other Elective – 4	OE	3	0	0	3

B. Tech.-M. Tech. (5-year Integrated Dual Degree) (ECE)

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Mathematics – II	IC	3	1	0	4
Data Structures & Algorithms	IC	3	0	0	3
Data Structures & Algorithms Lab	IC	0	0	2	1
Network Analysis and Synthesis	PC	3	0	0	3
Environmental Ecology & Biology	IC	2	0	2	3
Value Education and Ethics	IC	3	0	0	3
Analog Electronics	PC	3	0	0	3
Analog Electronics Lab	PC	0	0	3	2
Introduction to Modern Physics	OE	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Semiconductor Devices & Circuits	PC	3	0	0	3
Signals and Systems	PC	3	0	0	3
Engineering Electromagnetics	PC	3	0	0	3
Digital Circuits and Systems	PC	3	0	0	3
Digital Circuits and Systems Lab	PC	0	0	3	2
Design Lab – 1	PC	0	0	3	2

4th Semester

Courses	T	L	T	P	C
Probability and Statistics	PC	3	0	1	4
Principles of Communication	PC	3	0	0	3
Signals & Systems & Comm. Lab	PC	0	0	3	2
Control System Engineering	PC	3	0	0	3
Microwave Engineering	PC	3	0	0	3
Microwave Engineering Lab	PC	0	0	3	2
Introduction to VLSI	PC	3	0	0	3

5th Semester

Courses	T	L	T	P	C
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Digital Communication	PC	3	0	0	3
Digital Communication Lab	PC	0	0	3	2
Microprocessors & Interfacing	PC	3	0	0	3
Microprocessors & Interfacing Lab	PC	0	0	3	2
Digital Signal Processing	PC	3	0	0	3
Digital Signal Processing Lab	PC	0	0	3	2
Program Elective - 1	PE	3	0	0	3

6th Semester

Courses	T	L	T	P	C
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Computer Networks	PC	3	0	2	4
Design Lab - 2	PC	0	0	3	2
Other Elective - 1	OE	3	0	0	3
Program Elective - 2	PE	3	0	0	3
Program Elective - 3	PE	3	0	0	3

7th Semester

Courses	T	L	T	P	C
M.Tech. Thesis	PC	3	0	0	3
Program Elective – 4	PE	3	0	0	3
Program Elective – 5	PE	3	0	0	3
Other Elective – 2	OE	3	0	0	3
Research Field Elective – 1	PE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
M.Tech. Thesis	PC	3	0	0	3
Program Elective – 6	PE	3	0	0	3
Other Elective – 3	OE	3	0	0	3
Other Elective – 4	OE	3	0	0	3
Research Field Elective – 2	PE	3	0	0	3

9th Semester

Courses	T	L	T	P	C
M.Tech. Thesis	PC	9	0	0	9
Research Field Elective – 3	PE	3	0	0	3

10th Semester

Courses	T	L	T	P	C
M.Tech. Thesis	PC	9	0	0	9
Research Field Elective – 4	PE	3	0	0	3

M. Tech. in Electronics and Communication Engineering

1st Semester

Courses	C
Mathematical Structures for Engg.	4
Information Theory and coding	4
Modern digital communication	4
Program Elective - 1	4
Laboratory 1	2

2nd Semester

Courses	C
Modeling and simulation	4
Tech.Writing & Research Metho.	4
Wireless Communication	4
Program Elective – 2	4
Open Elective	4
Laboratory – 2	2

3rd Semester

Courses	C
M. Tech. Thesis	16

4th Semester

Courses	C
M. Tech. Thesis	16

List of Programme Electives

- Advanced DSP
- Analog VLSI Circuits
- Antenna Engineering
- Broadband Communication
- Co-operative Communication based Advanced Wireless Systems"
- Design for Testability
- Digital Image Processing
- Digital Systems Design with FPGAs
- Embedded Systems
- Embedded Systems and Design
- Information Theory and Coding
- Microwave Circuits and Systems
- Modeling and Simulation
- Modern Digital Communication
- Telecommunications Switching Systems & Networks
- Wireless Communication

List of other electives for UG students has been provided in page no 16.

Faculty Members



Raghuvir Singh Tomar
Emeritus Professor & HoD
Ph.D., IIT Kanpur
Research Areas: Electromagnetics, Radio Frequency and Microwaves, Antennas



Ranjan Gangopadhyay
Research Professor
Ph.D., IIT Kharagpur
Research Areas: Photonics & Wireless Communication, Cognitive Radio



Divyang Rawal
Associate Professor
Ph.D., DAIICT Gandhinagar
Research Areas: ICT, Signal Processing for Communication



Kusum Lata
Associate Professor
Ph.D., IISc Bangalore
Research Areas: Analog & Mixed Signal Design, Modeling and Design of VLSI Circuits, Low Power and Circuit Design



Soumitra Debnath
Associate Professor
Ph.D., IIT Kharagpur
Research Areas: Optical Networks, Queuing Theory, Cognitive Radio



Akash Gupta
Assistant Professor
Ph.D., NSIT Delhi
University of Delhi
Research Areas: Optical Wireless Comm., Visible Light Communication, Energy Harvesting, IoT applications



Anirudh Agarwal
Assistant Professor
Ph.D., LNMIIT Jaipur
Research Areas: 5G Wireless Comm. Green Comm.Networks (involving Wireless Power Transfer), Applied Machine Learning and Optimization



Gopinath Samanta
Assistant Professor
Ph.D., IIEST Shibpur
Research Areas: Implantable and Wearable Antenna, Wireless Power Transfer, Tera Hertz Antenna & Tera Hertz Electromagnetic Absorber, Meta-surface for performance improvement of Antenna



Harshvardhan Kumar
Assistant Professor
Ph.D., NIT Delhi
Research Areas: Optoelectronic devices, nano-photonics, & electronic devices, Silicon-based photonics, & GeSn-based photodetectors and light emitters.



Kanjalochan Jena
Assistant Professor
Ph.D., NIT Silchar
Research Areas: Solid-State Devices, Nanotechnology and Biosensors: Compact Modeling and Simulation



Mahendra Kumar Shukla
Assistant Professor
Ph.D., IIIT Allahabad
Research Areas: Cooperative Relaying, NOMA, Energy Harvesting, Physical Layer Secrecy



Abhishek Sharma
Assistant Professor
Ph.D., University of Genova, Italy
Research Areas: Embedded Systems and High Performance Embedded Computing



Amit Agarwal
Assistant Professor
Ph.D., IIT Delhi
Research Areas: Wireless communication, cooperative relaying, VLC, MIMO, SWIPT systems



Bharat Verma
Assistant Professor
Ph.D., IIITDM Jabalpur
Research Areas: Control System, Indirect Design Approach, PID Control, Intelligent Control, Bio-medical Signal Processing



Gaurav Chatterjee
Assistant Professor
Ph.D., LIRMM-CNRS, Montpellier France
Research Areas:
MEMS, Sensors, Robotics



Joyeeta Singha
Assistant Professor
Ph.D., NIT Silchar
Research Areas: Image and Video Processing, Hand Gesture Recognition



M. V. Deepak Nair
Assistant Professor
Ph.D., University of Rome, Tor-Vergata Italy
Research Areas: Linearization Techni. for High Frequency Power Amplifier



Mohit Kumar Joshi
Assistant Professor
PhD., IISc Bangalore
Research Areas: High-Power Microwave Source,Microwave Tubes, Slow-wave Structures, RF Windows, Electromagnetics



Navneet Upadhyay
Assistant Professor
Ph.D., BITS Pilani
Research Areas: Speech Processing, Digital Communication



Nikhil Raj
Assistant Professor
Ph.D., NIT Kurukshetra
Research Areas: Low Power Analog & Mixed Signal Design, Bio-inspired Circuit Design



Nikhil Sharma
Assistant Professor
Ph.D., NSIT Delhi
Research Areas: Wireless Comm. Cooperative Communication, Free-space Optics, Visible Light Comm.



Purnendu Karmakar
Assistant Professor
Ph.D. (Pursuing), IIT Kharagpur
Research Areas: Wireless Comm. Comp. Networks, Trust & Reputation in Virtual Comm. & Social Network



Sandeep Saini
Assistant Professor
Ph.D., MNIT Jaipur
Research Areas: VLSI Design, Microelectronics



Santosh Shah
Assistant Professor
Ph.D., Universidad de Valencia Spain
Research Area: Wireless Sensor Networks



Shankar Bhattacharjee
Assistant Professor
Ph.D., IIEST Shibpur
Research Areas: RF & Microwave Engineering



Suvadeep Choudhury
Assistant Professor
Ph.D., IIT Kharagpur
Research Areas: Antennas, RF & Microwave Engineering



Vinay Bankey
Assistant Professor
Ph.D., IIT Indore
Research Areas: Wireless Communications, Physical Layer Security, NOMA



Vinay Kumar Tiwari
Assistant Professor
Ph.D., IIT Indore
Research Areas: VLSI Signal Processing, VLSI Hardware Architecture, Harmonics Estimation DSP, FPGA Based Measurement System for Smart Grid Instrumentation Applications



Mechanical-Mechatronics Engineering (MME)

The Department of Mechanical-Mechatronics Engineering is one of the pioneering departments at LNMIIT that aims to broaden the perspective of the engineering aspirants by showcasing different areas of mechanical engineering such as Robotics, Automobile-EVs, Engineering Design, Computer Integrated & Advanced-Unconventional manufacturing, Bio-mechanics etc. The MME department has a vision to transform the mechanical engineering aspirant into highly motivated and cultured engineers, technologists, researchers and entrepreneurs who are globally competitive and capable of leading in industry.

The team of MME department comprises young, talented and enthusiastic faculty members having adequate academic, research and industrial experience. Thus, students can align themselves with the different faculty members and can take up projects to excel in interested fields. It helps them to nurture their academic profile and can further pursue career in product design and development, manufacturing, quality assurance, maintenance, sales, research, or techno-management.

Programmes Offered

The Department of MME offers the following programmes:

- B. Tech. in Mechanical Engineering (ME)
- B. Tech. (Hons.) in ME with Specialization in Robotics and Automation
- Minor in Robotics & Automation (for non-ME students)
- Ph.D.

Curriculum Highlights

The teaching-learning process is designed such that the students develop an ability to deal with real life challenges encountered in Manufacturing and Process Industries. For imparting skills, the department boasts of rich laboratory infrastructure. The undergraduates and research students of the department become Mechanical Engineering professionals readily employable by various industry such as: Aerospace industry, Automotive industry, Machine Tool Manufacturing, Product Design and Analysis, Oil and Gas, Biomedical Engineering, Business and Management, Manufacturing and Automation, Energy, Steel and many more. The department is offering Minor in Robotics and Automation and the courses required are listed below.

Course	(L-T-P-C)
Before Third Semester • Minor Project	0-0-2-1
Fourth Semester • Modeling And Design of Robots	3-0-2-4
Sixth Semester • Control And Optimisation of Automation and Robotic Systems	3-0-2-4

Course	(L-T-P-C)
Third Semester • Introduction to Automation	3-0-2-4
Fifth Semester • Programming For Automation and Robotics	1-0-3-3
Seventh Semester • Artificial Intelligence for Robotics and Automation • Major Project	3-0-2-4 3-0-0-3



B. Tech. in Mechanical Engineering (ME)

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Introduction to Modern Physics	PC	3	0	0	3
Mathematics – II	IC	3	1	0	4
Data Structures & Algorithms	IC	3	0	0	3
Data Structures & Algorithms Lab	IC	0	0	2	1
Environmental Ecology & Biology	IC	2	0	2	3
Value Education & Ethics	IC	3	0	0	3
Engineering Graphics Lab	PC	0	0	3	2
Engineering Physical Metallurgy	PC	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics – III	IC	3	1	0	4
Modern Electrical & Elect. Techn.	PC	3	0	0	3
Mechanics of Solids	PC	3	0	0	3
Mechanics of Solids Lab	PC	0	0	2	1
Manufacturing Technology – 1	PC	3	0	0	3
Manufacturing Technology Lab	PC	0	0	3	2
Engineering Thermodynamics	PC	3	1	0	4
Industrial Engineering and Manag.	PC	3	0	0	3

4th Semester

Courses	T	L	T	P	C
Machine Design – 1	PC	3	0	0	3
Kinematics & Dynamics	PC	3	0	0	3
Kinematics & Dynamics Lab	PC	0	0	2	1
Fluid Mechanics & Machinery	PC	3	0	0	3
Fluid Mechanics & Machinery Lab	PC	0	0	2	1
Metrology, Instrum. & Control	PC	3	0	0	3
Metrology, Instrum. & Control Lab	PC	0	0	2	1
Total Quality Management	PC	3	0	0	3
Manufacturing Technology – 2	PC	3	0	0	3

5th Semester

Courses	T	L	T	P	C
Heat Transfer	PC	3	3	0	3
Heat Transfer Lab	PC	0	0	2	1
Machine Design – 2	PC	3	3	0	3
Machine Design – 2 Lab	PC	0	0	2	1
CAD – CAM	PC	3	3	0	3
CAD – CAM Lab	PC	0	0	2	1
Program Elective – 1	PE	3	3	0	3
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3

6th Semester

Courses	T	L	T	P	C
IC Engines	PC	3	0	0	3
IC Engines Lab	PC	0	0	2	1
B.Tech. Project	IC	3	0	0	3
Program Elective – 2	PE	3	0	0	3
Other Elective – 1	OE	3	0	0	3
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3

7th Semester

Courses	T	L	T	P	C
B.Tech. Project	IC	3	0	0	3
Program Elective – 3	PE	3	0	0	3
Program Elective – 4	PE	3	0	0	3
Other Elective – 2	OE	3	0	0	3
Other Elective – 3	OE	3	0	0	3

8th Semester

Courses	T	L	T	P	C
Program Elective – 5	PE	3	0	0	3
Other Elective – 4	OE	3	0	0	3
Other Elective – 5	OE	3	0	0	3

B. Tech. (Hons.) in ME with Specialization in Robotics & Automation

1st Semester

Courses	T	L	T	P	C
Classical Physics	IC	3	1	0	4
UG Physics Laboratory	IC	0	0	3	2
Mathematics – I	IC	3	1	0	4
Basic Electronics	IC	3	1	0	4
Basic Electronics Lab	IC	0	0	3	2
Computer Programming	IC	3	0	0	3
Computer Programming Lab	IC	0	0	3	2
Technical Comm. in English	IC	3	0	0	3

2nd Semester

Courses	T	L	T	P	C
Introduction to Modern Physics	PC	3	0	0	3
Mathematics – II	IC	3	1	0	4
Data Structures and Algorithms	IC	3	0	0	3
Data Structures & Algorithms Lab	IC	0	0	2	1
Environmental Ecology & Biology	IC	2	0	2	3
Value Education and Ethics	IC	3	0	0	3
Engineering Graphics Lab	PC	0	0	3	2
Engineering Physical Metallurgy	PC	3	0	0	3

3rd Semester

Courses	T	L	T	P	C
Mathematics-III	IC	3	1	0	4
Modern Electrical & Elect. Techn.	PC	3	0	0	3
Mechanics of Solids	PC	3	0	0	3
Mechanics of Solids Lab	PC	0	0	2	1
Manufacturing Technology-1	PC	3	0	0	3
Manufacturing Technology Lab	PC	0	0	3	2
Engineering Thermodynamics	PC	3	1	0	4
Industrial Engineering & Manag .	PC	3	0	0	3
Introduction to Automation	SC	3	0	2	4

4th Semester

Courses	T	L	T	P	C
Machine Design – 1	PC	3	0	0	3
Kinematics & Dynamics	PC	3	0	0	3
Kinematics & Dynamics Lab	PC	0	0	2	1
Fluid Mechanics & Machinery	PC	3	0	0	3
Fluid Mechanics & Machinery Lab	PC	0	0	2	1
Metrology, Instrum. & Control	PC	3	0	0	3
Metrology, Instrum. & Control Lab	PC	0	0	2	1
Total Quality Management	PC	3	0	0	3
Manufacturing Technology – 2	PC	3	0	0	3
Modeling And Design of Robots	SC	3	0	2	4

5th Semester

Courses	T	L	T	P	C
Heat Transfer	PC	3	3	0	3
Heat Transfer Lab	PC	0	0	2	1
Machine Design -2	PC	3	3	0	3
Machine Design -2 Lab	PC	0	0	2	1
CAD-CAM	PC	3	3	0	3
CAD- CAM Lab	PC	0	0	2	1
Program Elective- 1	PE	3	0	0	3
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Programming For Automation and Robotics	SC	1	0	3	3

6th Semester

Courses	T	L	T	P	C
IC Engines	PC	3	0	0	3
IC Engines Lab	PC	0	0	2	1
BTP	IC	3	0	0	3
Program Elective- 2	PE	3	0	0	3
Open Elective - 1	OE	3	0	0	3
Economics for Engineers / Psychology, Technology & Society	IC	3	0	0	3
Control And Optimisation of Automation and Robotic Systems	SC	3	0	2	4

7th Semester

Courses	T	L	T	P	C
BTP	IC	3	0	0	3
Program Elective- 3	PE	3	0	0	3
Program Elective- 4	PE	3	0	0	3
Open Elective - 2	OE	3	0	0	3
Open Elective - 3	OE	3	0	0	3
Artificial Intelligence for Robotics and Automation	SC	3	0	2	4

8th Semester

Courses	T	L	T	P	C
Program Elective- 5	PE	3	0	0	3
Open Elective – 4	OE	3	0	0	3
Open Elective - 5	OE	3	0	0	3

List of Programme Electives

Failure Analysis and Design	Cryogenics	Energy Conversion and Managements
Numerical Methods	Power Plant Engineering	Unconventional Machining Processes
Vehicle Dynamics	Energy Engineering	Machine Condition Monitoring and Fault Diagnostics Techniques
Automotive Power Transmission Systems	CFD	BioMechanics
Robotics and Industrial Automation	Welding and Allied Processes	Finite Element Method
Refrigeration and Conditioning	Mechanical Vibration	

List of other electives for UG students has been provided in page no 16.

Faculty Members



Ashok Kumar Dargar
Associate Professor & HoD
Ph.D., Jamia Millia Islamia University, Delhi
Research Areas: Synthesis and Analysis of Kinematic Chains and Mechanisms



Kamal Kishore Khatri
Associate Professor
Ph.D., MNIT Jaipur
Research Areas: Alternate Fuels in IC Engines, Trigeneration, Modeling and Simulation of Thermal/ Energy Systems, Application of Nano-fluidsz



Manoj Kumar
Associate Professor
Ph.D., IIT Delhi
Research Areas: Production and Industrial Engineering, Welding Technology



Vikram Sharma
Associate Professor
Ph.D., Guru Gobind Singh Indraprastha University, Delhi
Research Areas: Supply Chain Management, Lean Manufacturing



Atul Mishra
Assistant Professor
Ph.D., IIT Kharagpur
Research Areas: Industrial and Mobile Robotics, Production Planning and Control, Artificial Intelligence in Manufacturing



Deepak R. Unune
Assistant Professor
Ph.D., MNIT Jaipur
Research Areas: Hybrid Machining Processes, Electro Discharge Mach. Modelling & Analysis of Mech. Systems



Mohit Makkar
Assistant Professor
Ph.D., University of Lille 1, France
Research Areas: Robotics, Modeling and Simulation, Design of Control Systems, System Dynamics



Servesh Kumar Agnihotri
Assistant Professor
Ph.D., IIT Kanpur
Research Areas: Fracture mechanics, Experimental Solid Mechanics, Functionally graded composites



Vikas Sharma
Assistant Professor
Ph.D., IIT Indore
Research Areas: Gears and Bearings, Vibrations, Condition Monitoring, Fault Diagnosis, Signal Processing Techniques



Arpi Majumder
Guest Faculty
Ph.D., Jadavpur University Kolkata
Research Areas: Synthesis of metal complexes for the application in coupling reactions

Mathematics

The Department of Mathematics came into existence in 2012 along with four other departments when the LNMIIT switched over from being a single (combined) entity to having a department structure. However, from its very inception, the Mathematics faculty members were an integral part of the Institute.

The Department of Mathematics was established with the following objectives:

- To produce qualified graduates who are equipped with deeper insight and research skills in the field of Mathematics.
- To encourage interdisciplinary research with other areas.
- To leverage the diversity of our faculty through the integration of ongoing scientific/ mathematics research with our innovative research and leadership.
- To utilize the diverse expertise of our faculty both within the Department and in collaborative efforts with other Departments, Institutes and Universities to strengthen the overall quality of the Department and to develop professional bonds.

The Department of Mathematics has a vision to establish a center for research and teaching excellence in Mathematics of international repute. The Department has a good research atmosphere with highly qualified and energetic faculty members backed up by excellent infrastructural facilities. The faculty members have taken strong initiatives for bringing in quality research in current emerging areas and are actively pursuing research in the areas of Topology, Stochastic Control, Partial Differential Equations, Numerical Analysis, Computational PDEs, Scientific/ Parallel Computing, Cryptography, Number Theory and Functional Analysis. Moreover, the faculty members are involved in collaborative research activities within India and abroad in their respective research areas. At present, the Department offers 2-Year M.Sc. Programme and Ph.D. Programme. The M.Sc. programme is designed to offer a complete, balanced combination of courses in Mathematics (including both theory and applications).

The long term vision of the Mathematics Department is to produce leaders in Mathematics at institutional, state, national and international level and to become a leading department in the country by imparting mathematics education in order to support the development of best practices and provide opportunities for participation in cutting-edge research to current and future professionals. The values that guide our decisions, strategies and actions are: Excellence, Integrity, Leadership, Innovation, and Ethics.

M.Sc. in Mathematics

1st Semester

Courses	T	L	T	P	C
Analysis – I	PC	3	1	0	4
Linear Algebra	PC	3	1	0	4
Computer Programming	PC	3	0	0	3
Computer Programming Lab	PC	0	0	3	2
Optimization	PC	3	1	0	4
Algebra	PC	3	1	0	4

2nd Semester

Courses	T	L	T	P	C
Probability & Statistics	PC	3	1	0	4
Analysis-II	PC	3	1	0	4
Complex Analysis	PC	3	1	0	4
Numerical Analysis	PC	3	1	0	4
Ordinary Differential Equations	PC	3	1	0	4

3rd Semester

Courses	T	L	T	P	C
Topology	PC	3	1	0	4
Functional Analysis	PC	3	1	0	4
Partial Differential Equations	PC	3	1	0	4
Other Elective-I	OE	3	1	0	4
Other Elective-II	OE	3	1	0	4
Project	PC				4

4th Semester

Courses	T	L	T	P	C
Mathematical Methods	PC	3	1	0	4
Other Elective-III	OE	3	1	0	4
Other Elective-IV	OE	3	1	0	4
Other Elective-V	OE	3	1	0	4
Project	PC				4

Faculty Members



Mohan K. Kadalbajoo
Distinguished Professor
Ph.D., IIT Bombay
Research Areas: Numerical Analysis, Parallel Algorithms, Computational PDEs, Computational Finance



Ajit Patel
Associate Professor
Ph.D., IIT Bombay
Research Areas: Numerical Analysis, Computational PDEs, Finite Element Methods



Manish Garg
Associate Professor
Ph.D., IIT Roorkee
Research Areas: Cryptography, Boolean Functions and Finite Field



Pratibha Garg
Associate Professor & HoD
Ph.D., IIT Delhi
Research Areas: Topological and Function Space



Vikas Gupta
Associate Professor
Ph.D., IIT Kanpur
Research Areas: Numerical Analysis, Singularly Perturbed Problems, B-spline



Dishari Chaudhury
Assistant Professor
Ph.D., IIT Guwahati
Research Areas: Non-Commutative Algebras and Lie Algebras



Neeraj
Assistant Professor
Ph.D., IISER Mohali
Research Areas: Commutative Algebra and Number Theory



Ratan Giri
Assistant Professor
Ph.D., NIT Rourkela
Research Areas: Partial Differential Equations(PDEs), Theoretical aspects of nonlinear elliptic and parabolic PDEs



Sudipto Chowdhury
Assistant Professor
Ph.D., IISC Bangalore
Research Areas :
Numerical Analysis



Sunil Kumar Gauttam
Assistant Professor
Ph.D., IIT Bombay
Research Areas: Stochastic Control, Probability Theory, Stochastic Processes



Trivedi Harsh Chandrakant
Assistant Professor
Ph.D., IIT Bombay
Research Areas:
Functional Analysis

Physics

The Department of Physics came into existence in 2012 along with four other departments when the LNMIIT switched over from being a single (combined) entity to having a department structure.

However, from its very inception, the Physics faculty members were an integral part of the Institute. The Department of Physics was established with the following objectives:

- To create human resources with strong foundation in Physics which can be applied to wide areas in science and technology.
- To motivate students towards research in Physics as well as in interdisciplinary areas.
- To carry out research through collaboration with researchers of other reputed academic institutions of India & abroad.
- To organize outreach activities to promote scientific culture.

The members of the Physics Department have a broad range of interests spanning both the very fundamental aspects of nature as well as the applied and engineering aspects of physics. Areas of interest and active research include Organic Electronics, Nano-materials and their applications in Optoelectronics, Material Science, Solar Cells, Cosmology, High Energy Physics, Gravity, Biophysics, Condensed Matter Physics, Biosensors and Nanotechnology. The approaches include experimental, theoretical and computational. The faculty members are currently executing a number of projects received from external funding agencies like DST, CSIR and UGC-DAE.

The Department is very cohesive and supportive of the research carried out by its members. It encourages collaboration from both within and outside the Department/ Institute. The Department offers two Physics core courses for first year B.Tech. students with laboratory, along with many elective courses for all branches of B.Tech. in addition to offering M.Sc., and Ph.D. programmes. The Institute has established a Centre of Excellence in the area of Material Science and Energy Studies. Thus the Department is well poised to build on its strengths and deepen its pursuit of excellence.

M.Sc. in Physics

1st Semester

Courses	T	L	T	P	C
Classical Mechanics	PC	3	1	0	4
Electronics	PC	3	1	0	4
Mathematical Physics-I	PC	3	1	0	4
Quantum Mechanics-I	PC	3	1	0	4
Comp. Methods in Physics	PC	3	0	0	3
Comp. Methods in Physics Laboratory	PC	0	0	2	1
Electronics Laboratory	PC	0	0	9	4

2nd Semester

Courses	T	L	T	P	C
Thermody. & Statistical Mechanics	PC	3	1	0	4
Quantum Mechanics-II	PC	3	1	0	4
Mathematical Physics-II	PC	3	1	0	4
Condensed Matter Physics-I	PC	3	1	0	4
Electrodynamics-I	PC	3	1	0	4
General Physics Laboratory	PC	0	0	9	4
	PC				

3rd Semester

Courses	T	L	T	P	C
Atomic and Molecular Physics	PC	3	1	0	4
Nuclear and Particle Physics	PC	3	1	0	4
Condensed Matter Physics-II	PC	3	1	0	4
Electrodynamics-II	PC	3	1	0	4
Advanced Statistical Mechanics	PC	3	1	0	4
Master's Project (Part I)	PC	0	0	2	2

4th Semester

Courses	T	L	T	P	C
Program Elective-I	PE	3	0	0	3
Program Elective-II	PE	3	0	0	3
Open Elective -I	OE	3	0	0	3
Open Elective- II	OE	3	0	0	3
SSM Characterization Laboratory	PC	3	0	0	4
Master's Project (Part II)	PC	0	0	9	6

List of Programme Electives

Introduction to Quantum Field Theory	Phase Transitions in Materials	Characterization
Introduction to Quantum Many-Body Theory	Introduction to Material Science and Engineering	Applied Optics
Introduction to Special & General Relativity		Group Theory
Physical Cosmology	Experimental Tech. for Material	Advanced Computational Physics

List of Open Electives

Organic Electronics and Optoelectronics	Renewable Energy: Science & Engg.	Quantum Computing & Quantum Information
Medical Physics	Nonlinear dynamics and Chaos	Introduction to Molecular Modelling and Simulation

Faculty Members



Anupam Singh
Professor
Ph.D., Carnegie Mellon University, USA
Research Areas: High Energy Physics and Cosmology



Ganesh Dutt Sharma
Professor
Ph.D., IIT Delhi
Research Areas: Organic Electronics, Organic Solar Cells, Dye Sensitized Solar Cells, Nano-Science & Technology



Somnath Biswas
Professor
Ph.D., IIT Kharagpur
Research Areas: Magnetic Nano materials and Nano-stuctures, Spintronic Devices, FET-based Sensor Devices, Materials for Fuel Cells and Hydrogen Storage



Ashok Garai
Associate Professor
Ph.D., IIT Kanpur
Research Areas: Theoretical & Computational Biophysics, Molecular Motors, Genetic Networks, Theory of Single Molecular Pulling Experiments, DNA Nanomechanics



Subhayan Biswas
Associate Professor & HoD
Ph.D., IACS Kolkata
Research Areas: Third Generation Solar Cells, Photocatalysis



Amit Neogi
Assistant Professor
Ph.D., IIT Kanpur
Research Areas: Laser Plasma



Anjishnu Sarkar
Assistant Professor
Ph.D., IIT Bombay
Research Areas: Cosmology, Particle Physics, Supersymmetric Model Building



Manish Kumar Singh
Assistant Professor
Ph.D., MNNIT Allahabad
Research Areas: Solid State Physics, Electronics, Nanomaterials, Laser Ablation in Liquids & Biosensors



Nabyendu Das
Assistant Professor
Ph.D., Institute of Physics, Bhubaneswar
Research Areas: Theoretical Condensed Matter Physics



Pomita Ghoshal
Assistant Professor
Ph.D., HRI Allahabad University
Research Areas: Particle Physics



Rakesh Tibrewala
Assistant Professor
Ph.D., Tata Institute of Fundamental Research, Mumbai
Research Areas: General Relativity, Aspects of Quantum Gravity

Humanities and Social Sciences (HSS)

The Department of HSS was established with the following objectives :

- To enhance students' communication skills through effective writing, speaking and presentations.
- To develop their fundamental understanding of economic and business environment.
- To build students' critical thinking, analytical aptitude and scientific temper.
- To promote interdisciplinary knowledge, learning and practice.

The Department is multidisciplinary in nature with the vision to provide value based education to future engineers, making them sensitive towards wide range of humane and social issues and enabling them to combine technical knowledge with social, cultural, economic, ethical, and humane issues involved in societal development. Moreover, it also focuses on enhancing communication and professional skills of the students.

The Department offers core courses and elective courses in the areas of English, Economics, Psychology, Business Skills, Public Policy, Philosophy and other allied areas. Currently, it offers Ph.D. in English, Applied Linguistics, Economics and Psychology.

Faculty Members



Manju Dhariwal
Professor
Ph.D., Univ. of Rajasthan
Research Areas: English Language and Literature, Communication Theory



A. P. Singh
Adjunct Professor
MBA, JBIMS Mumbai



Usha Kanoongo
Associate Professor & HoD
Ph.D., Univ. of Rajasthan
Research Areas: Applied Linguistics, English Language Teaching, Computer-mediated Communication



Narendra Kumar
Associate Professor
Ph.D., Univ. of Rajasthan
Research Areas: Postcolonial Studies, Cultural Studies, Literatures of the Indian Subcontinent, Adaptation Studies



Rajbala Singh
Associate Professor
Ph.D., IIT Kanpur
Research Areas: Health Psychology, Psychology of Technology, Organizational Behaviour



Anu Malik
Assistant Professor
Ph.D., IIT Kanpur
Research Areas:
Health Psychology



Payel Pal
Assistant Professor
Ph.D., IIT Kanpur
Research Areas: American Literature, Feminist Literature, Diaspora Literature South Asian Literature



Sagnik Bagchi
Assistant Professor
Ph.D., IIT Bombay
Research Areas: International Trade, Applied Econometrics



Surinder Singh Nehra
Assistant Professor
Ph.D., University of Pune
Research Areas: Social Security Urbanisation, Infrastructure



G. C. Tikkiwal
Guest Faculty
Ph.D., Univ. of Rajasthan
Research Areas: Stochastic Process

Research

The LNMIIT, Jaipur focuses on the latest areas of Science, Technology and Humanities for teaching and research in its curriculum. The curriculum has two major components: the first half being a set of core courses and the latter half consists of a variety of elective courses. The faculty members have publications in some of the well-reputed journals (high impact factor) and peer-reviewed conferences. Currently, the major research and development areas offered to the students by different departments are as follows:

Computer Science & Engineering (CSE)

- Artificial Intelligence
- Computer Security
- Computer Vision
- Cloud Computing
- Data Analytics
- Internet of Things
- Machine Learning
- Software Engineering

Electronics & Communication Engg. (ECE)

- Communication and Signal Processing
- Optical Communication
- RF and Microwave
- VLSI and Embedded Systems Design
- Wireless Communication

Mechanical & Mechatronics Engg. (MME)

- Automotive Electronics
- Automotive Technology
- Industrial Engineering and Management
- Machine Design
- Mechatronics
- Manufacturing Technology
- Nano, Micro and Bulk Material Processing
- Robotics and Automation
- Thermal and Renewable Energy
- Vibrations and Condition Monitoring

Humanities and Social Sciences (HSS)

- **English:** Early Twentieth Century Literature, Postcolonial Studies, Cultural Studies, Film and Adaptation Studies, Modernist Studies, Contemporary Literature of the Indian Subcontinent, Applied Linguistics, English Language Teaching, Computer-mediated Communication
- **Economics:** Labour Economics, Developmental Economics, Environmental Economics, International Economics
- **Psychology:** Technology & Psychology, Health Psychology, Positive Psychology, Organizational Behaviour

Physics

- Biosensors
- Device Physics (Spin-FETs, Thin-film Transistors)
- General Relativity & Quantum Gravity
- High Energy Physics
- Organic Semiconductors
- Photovoltaics
- Theoretical Condensed Matter Physics
- Theoretical Cosmology
- Theoretical & Computational Biophysics
- Experimental Material Science (Magnetic Nanostructures, Photonic Materials, SOFC Materials, Plasmonic Materials)

Mathematics

- Numerical Analysis and Differential Equations (Numerical Solution of ODEs and PDEs, Finite Difference Methods, Finite Element Methods, Domain Decomposition Methods, Singularly Perturbed Problems, Computational Finance, Layer Adapted Meshes, B-Spline Collocation Methods) Partial Differential Equations(PDEs), Theoretical aspects of nonlinear elliptic and parabolic PDEs
- Commutative algebra, non-commutative algebras, Lie algebras
- Cryptography, Number Theory, Boolean Functions
- Topology and Functional Analysis
- Probability & Stochastic Process, Stochastic Differential Equations

Research Collaborations

Well-known international organizations which are connected to LNMIIT through joint research collaborations include Artificial Intelligence Institute, Univ. of South Carolina (USA), NATEL Engineering Co. Inc. (California, USA), Rhombus Power Inc. (San Jose, USA), Universit´e de Sherbrooke (Canada), University of Waterloo (Canada), Scuola Superiore Sant'Anna (SSSUP, Pisa, Italy), University of Roma Tor Vergata (Italy), CERN (Geneva, Switzerland), National Ilan University (NIU, Taiwan). Patras University (Greece), University of Crete (Greece), Instituto de Nanociencia, Nanotecnología Materiales Moleculares (INAMOL) (Toledo, Spain), University of Bath (UK), Université de Bourgogne (France), Russian Academy of Science and Moscow University (Moscow), Umea University (Sweden), ICIQ (Barcelona, Spain), On a national level, joint research collaborations with IIT Delhi, IIT Bombay, CEERI Pilani, IRPE Kolkata, NERIST (Arunachal Pradesh), Physical Research Laboratory (Ahmedabad), VNIT (Nagpur), & RRCAT (Indore) are in place.

Multi-Disciplinary Centres for Research and Development

The institute has created the following specialized centres as part of its select focus on sustainable innovation enablement and technology-based opportunity creation initiatives having the potential to enable early as well as long-term benefits to the campus, society and the nation. These centres are envisioned to become an innovation, research, technology development, skill-development, consulting and outreach hub, as applicable, around which not only the LNMIIT but also many other institutions in the vicinity (or even beyond) might get enabled over the years. Each of the Research and Development centres have been provided a plan-linked seed grant for their research related activities and for a start-up initial research. Under this scheme, subject to receipt of eligible proposals reviewed by experts, a funding ranging from Rs. 2 lakhs to Rs. 10 lakhs is made available by the institute.

Centre Name	Objectives
Centre for Next Generation Communication Networks (C-NGCN) **Prof. Ranjan Gangopadhyay, Lead** **Dr. Nikhil Sharma, Co-Lead**	• Sponsored research and creation of software/ hardware research laboratory for xG Communication Networks. • Development of new elective courses on relevant topics, such as, 5G Wireless, SDN, Massive MIMO, mm-wave Techniques, etc. • Conducting workshops on "Emerging Technologies for Next Generation 5G".
Centre for Machine Learning and Big Data Analytics (CML- BDA) **Dr. Subrat Kumar Dash, Lead** **Dr. Sakthi Balan, Co-Lead**	• To become a sustainable centre of excellence in terms of research, innovation, development and new venture creation in Machine Learning (ML), Big Data, Business Analytics, Information Retrieval and associated areas. • To focus on quality research and development through multi-disciplinary and collaborative approach.
Centre for Energy and Environmental Studies (CEES) **Dr. Kamal Kishore Khatri, Lead**	• Create innovation based technological solutions in the field of materials and energy for the industry and society. • Develop capacity building and help develop sustainable campus with respect to resources, e.g., materials, energy and water, etc.
Centre for Cryptography, Cyber Security and Digital Forensics (C3-SDF) **Dr. Jayaprakash Kar, Lead** **Dr. Shweta Bhandari, Co-Lead**	• To carry out industry-relevant research involving Information Security, Cryptography, Cyber Security and Digital Forensics to address current and potential cyber security and digital forensic challenges. • To promote wide-ranging multidisciplinary research and to train and develop skills in cyber security and digital forensic amongst its students and the wider community through seminars, workshops and training.
LNMIIT Centre for Smart Technology (L-CST) **Dr. Abhishek Sharma, Lead** **Dr. Sunil Kumar, Co-Lead**	• To focus on the IoT/Cyber-Physical System Space. • To make LNMIIT as a zero waste campus. • To develop a system to identify and eliminate wastage of all kinds of natural resources. • To develop a mechanism to systematically evolve a research prototype into industry prototype and minimum viable product in time bound and gated approach. • To attain smart-energy monitoring and management solutions for campus is one of its agenda item of work.
Centre for Robotics and Artificial Intelligence (C-RAI) **Dr. Mohit Makkar, Lead**	• To create innovation based technological solution in the field of Robotics and Artificial Intelligence for the industry and society. • To focus on quality research and development through multi-disciplinary and collaborative approach.
Centre for Educational Technology & Teaching-Learning Innovation (CET-TLI) **Prof. Raghuvir Singh Tomar, Lead**	• Identification of key needs of the Institute in the areas of teaching-learning, pedagogy, effective evaluation/learning-assessment vehicles apart from the corresponding enabling technologies and intensive teaching-learning workshops for new (first-time) teachers and retraining of select existing faculty/laboratory staff as per need. • Creation of a prioritized and phase-wise plan of action with an annual calendar that is in synchronization with the institute calendar. The CET-TLI shall also be charged with the responsibility of identifying and/or creating technology-based cost-effective solutions as well as their pilot testing, deployment and delivery; and, where feasible and relevant, enable outreach. • Initiation to become an activity hub around which not only the LNMIIT but also many other institutions in the vicinity (or even beyond) might get enabled over the years.

Centre for Material Science and Nano Electronics (C-MSNE) **Prof. Ganesh Datt Sharma, Lead** **Prof. Somnath Biswas, Co-Lead**	• The Centre will focus on the R& D programmes in the emerging research area of material science and technology to develop new materials, process methodologies and technologies leading to the development of fast speed electronic and optoelectronic devices to be employed in Information technology and telecommunication through cutting edge research in nanoelectronics, developing device for meeting the societal requirement in the country and creating the facilities of materials development and characterization and device fabrication. • The thrust area includes Energy storage, energy conversion, supercapacitors, flexible electronics, sensor materials, green materials, nanomaterials and their applications, Nano-photonics, polymers for photonics, photonics sensors, organic electronics, computational nanoelectronics and displays.
Centre for Mathematical and Financial Computing (C-MFC) **Dr. Vikas Gupta, Lead** **Dr. Ajit Patel &** **Dr. Sagnik Bagchi, Co-Leads**	• Carrying out industry-relevant and other forms of applied as well as basic research involving various forms and sub-areas of mathematical computing, modelling, and simulation as well as various areas and sub-areas of financial computing, economic and financial modelling, and simulation. • Promoting multidisciplinary work with relevant intervention of mathematics, economics or finance with other domains like information science, biology, astronomy, public policy, epidemiology, drug design and behavioural modelling and simulation etc

Specialized Centres Focused on Other Major Functions and Activities

Centre Name	Objectives
LNMIIT Centre for Technology Business Incubation & Entrepreneurial Leadership (L-CTBI & EL) **Dr. Manoj Kumar, Lead**	• Providing a platform for faculty, staff, students and alumni for innovation, incubation and entrepreneurial leadership. • Enabling technology-based solutions to problems that might be faced by the campus, society, state and the nation. • Providing Business Assistance and Mentoring, accelerate emerging companies' development by providing hands-on assistance during the vulnerable start-up years.
LNMIIT Unified Computing Services Centre (LUCS) **Dr. Sunil Kumar, Lead**	• Identifying key computing needs of the Institute for effective planning and maintenance of entire computing infrastructure including but not limited to network infrastructure, internet access, cyber security, VoIP telephony support and related integration services. • Providing IT based security and surveillance services, audio-visual conference services, in-campus audio-visual services, digital storage services and high-performance computing services. • Enabling design, deployment, maintenance and periodic update of LNMIIT website. • Guiding ERP/MIS related services and advising the Institute on timely, proactive enhancement of related facilities and services in keeping with the vision of the Institute and emerging trends.
Centre for Executive Development Programmes (C-EDP) **Prof. Ravi Gorthi, Lead** **Dr. Vikram Sharma, Co-Lead**	• Creating need - based, industry-relevant and self-sustainable short-term, medium-term and long-term executive development programmes leading to different levels of certifications and continuing education programmes involving Massive Open Online Courses (MOOC), Small Private Online Courses (SPOC), Corporate Open Online Courses (COOC) as well as blended learning, virtual laboratories and secure online testing-based provisions.

	• Conceptualizing, analyzing requirements, design, implementation and deployment of an open source, integrated ERP System for the LNMIIT, covering all aspects of its operation including but not limited to complete student's life-cycle (admission to graduation), faculty and staff employment life-cycle recruitments, purchase inventory, taxation, financial planning, performance management, estate management and digital archive of records.
LNMIIT Centre for Wellness and Positive Health (L-CWPH) **Dr. Amit Neogi, Lead**	• Ensuring positive mental health, general feeling of wellness and help in realizing the value added by ethics-driven value system in both personal and professional spheres. • Focusing on bringing about positive changes in the way young students may perceive certain aspects and difficulties in life but would not be limited in the scope of its work and reach to students alone. It would be encouraged to become a mentoring, counselling, interaction and outreach hub around which, over a period of time, not only the LNMIIT but also the community around it, state and nation would be benefitted over the years.
Centre for Advanced Software and Skills Development (CASSD) **Mr. Vikas Bajpai, Lead**	• Identification of key needs that the campus, society, state and the nation may have which in a prioritized and phase-wise manner could be helped with the creation of software and hardware-software technology-based cost-effective solutions, testing (pilot deployment included), deployment and finally technology transfer, commercialization and where feasible and relevant, outreach. • This Centre would have a mandate of evolving into a centre of excellence in terms of design research innovation, advanced software skills, development and software solutions developed in the software and hardware-software areas.
Centre for Study and Use of Authentic Examination (C-SUAE) **Prof. Philip L. Miller, Lead**	• The centre shall primarily work in the areas of research, development and industry-ready technology/ services which would help any industry that needs to develop professional-grade, high quality software and recruit developers or train existing senior developers, project-leads etc. • The centre shall help any such company that wishes to identify different levels of job readiness of potential recruits as well as assessing level of competancy of software developers/ team leaders and project managers already on-roll of a company.
Centre for Communication, Soft-Skills and Personality Development (C-CSPD) **Dr. Usha Kanoongo, Lead**	• The centre will strengthen communication skills, soft skills and overall personality of students and participating individuals. • The activities of this virtual centre are: Conducting Workshops, training on Interview Skills, Employability skills and personality development for students. Faculty and Staff Development Programmes will also be organized under this centre. • The centre works towards training the participants with the nuances of effective communication, workplace etiquette and socio-professional interaction and thus foster their employability and professional success.
Centre for Media Relations and Studies (CMRS) **Dr. Shweta Pandey, Lead** **Mr. Vikas Bajpai, Co-Lead**	• To bring LNMIIT to the forefront through ethical and value-based but thoughtful and convincing brand /image building and appropriate promotion forms. • To bring up community relations with all the Institute's external and internal stakeholders (including faculty, staff, students, alumni, parents, recruiters, and peers) through appropriate information sharing, events, and media relation activities, including but not limited to social media and press coverage.

Sponsored Research and Development Projects

Project Title	Funding Agency and Duration of the Project	Funding Amount	Principal Investigator
Evaluation study on Schedule castes sub-plan(SCSP) and tribal sub-plan (TSP) components of Sarva Siksha Abhiyan(SSA) and Rashtriya Uchchtar Siksha Abhiyan(RUSA)	RUSA.2.0 (2021-2022)	₹ 1,71,97,000	Dr. Surendra Singh Nehra (Co-PI)
A Novel concentrator photovoltaic system combined with confined jet impingement and thermoelectric generator in an integrated design – Experimental study	SERB-TARE-2021 (2021-24)	₹ 18,60,000	Dr. Sandesh Chougule
Contactless sanitizing tunnel	Unnat Bharat Abhiyan under Ministry of Human Resource and Development - Government of India Sep 2020-Oct 2020	₹ 50,000	Dr. Mohit Makkar
IndoLegal2Vec: Learning Word and Document Representations from Hindi and English Indian Legal Corpus to Help Enable Faster Delivery of Justice (Transferred during 2020-21)	SERB-TARE-2019 (2019-2022)	₹ 18,30,000	Dr. Kshitiz Verma
Energy Efficient RF/VLC Networks for IoT Applications	SERB, DST-GoI (2019-2022)	₹ 35,17,096	Dr. Nikhil Sharma (Co-PI)
Magneto-transport Studies of ZnO Based Magnetic Tunnel Junctions Fabricated by Ion Implantation	UGC-DAE (2019-2022)	₹ 14,80,000	Prof. Somnath Biswas
Multimodal user interface for assisting elderly people in indoor environment	DST-SEED (2019-2022)	₹ 23,83,686	Dr. Joyeeta Singha (PI)
FIST (Fund for Improvement of S&T Infrastructure in Universities and Higher Education Institutes)	DST-FIST and LNMIIT (2018-2023)	₹ 58,00,000	Dr. Vikas Gupta
Evaluation of Electro-Chemical and Thermo-Mechanical Properties of Novel Anode-Supported SOFC Membrane Electrolyte Assembly Structure for Intermediate Temperature Applications	DST-SERB (2018-2021)	₹ 32,15,520	Dr. Somnath Biswas
Sign Language to Regional Language Converter (SLRC)	DST-SEED Project (2018-2021)	₹ 42,88,161	Dr. Abhishek Sharma (PI) Dr. Sandeep Saini (Co-PI) Prof. Raghuvir Tomar (Co-PI)

Elasticity of Telomeric DNA and the Effect of Human TRF1 Protein Binding	Science & Engineering Research Board (SERB), DST, Govt. of India (2018-2021)	₹ 26,65,000	Dr. Ashok Garai
Development of efficient polymer solar cells based on conjugated polymers and non fullerence small molecules acceptors with low energy loss	DST (BRICS) (India, Russia China) (2018-2021)	₹ 72,68,000	Prof. G.D. Sharma (PI) Dr. Subhayan Biswas (Co-PI)
Low cost flexible organic solar cells based on non-fullerene acceptors as renewable energy conversion	DST, GITA (Indo-Taiwan) (2018-2021)	₹ 14,00,000	Prof. G.D. Sharma
Novel wide bandgap copolymers featuring excellent comprehensive towards practical for organic solar cells	DST-RFBR (Indo-Russia Joint Project) (2018-2020)	₹ 21,82,400	Prof. G.D. Sharma
Development of New Small Molecules and Device Architectures for Highly Efficient and Reliable Organic Solar Cells	Department of Science and Technology (DST), Govt. of India (2017-2020)	₹ 125,00,000	Prof. G.D. Sharma
Design and Analysis of Content Distribution Framework for Digital Rights Management Systems Based on Cryptographic Primitives	Science & Engineering Research Board (SERB), DST, Govt. of India (2016-2019)	₹ 15,07,000	Dr. Dheerendra Mishra
Development of Green Campus in The LNMIIT under the "Development of Solar Cities" program of MNRE	Ministry of New and Renewable Energy (MNRE), Govt. of India (2016-2017)	₹ 5,00,000	Dr. Kamal Kishore Khatri
Development of Solar Cells Utilizing Quantum Dot Sensitized Titanium Oxide Nanotube	CSIR (2014-2017)	₹ 11,00,000	Dr. Subhayan Biswas
Detection of Biomolecular Interactions with TMR based Sensing using Magnetic Nanotags	UGC-DAE (2014-2017)	₹ 9,00,000	Dr. Somnath Biswas
Tracing the Faultlines of Ethnic Conflict in the Postcolonial Indian Subcontinent: Narrative as a Socio-Political Discourse	ICSSR (2014-2016)	₹ 8,00,000	Dr. Narendra Kumar
Mobile Broadband Service Support over Cognitive Radio Networks	ITRA, DeitY (2013-2018)	₹ 102,96,000	Prof. Ranjan Gangopadhyay
Development of High Hydrostatic Pressure Metal Forms for Hydrogen Storage	DST (2013-2016)	₹ 13,56,000	Dr. Somnath Biswas
Non-equilibrium Dynamics of Quantum Fields with Applications to Dark Energy and Inflation	DST (2013-2016)	₹ 12,00,000	Prof. Anupam Singh Dr. Anjishnu Sarkar

Patents

The Institute encourages its faculty and financially supports the filing of patents after due internal vetting. The following is the details of patents:

Title	Name of Faculty	Status
Optimal Tapping of Light Energy by Considering the Coherence Length Limit and Using Rectifiers to Prevent the Diminishing of Collected Power Due to Spatial and Temporal Averaging	Prof. Somnath Biswas, Prof. Anupam Singh	Published
System and Method for Performing Surviellance of an Automated Teller Machine (ATM)	Mr. Praveen Kumar	Published
Method and Apparatus for Monitoring Health Related Parameters of a Patient	Dr. Abhishek Sharma	Published
Method and System for Assisting a Farmer in Crop Management	Dr. Abhishek Sharma	Published
Dynamic Digital Twin System and a Method of Operating Thereof	Dr. Abhishek Sharma	Granted
System and method for assisting communication between users	Dr. Abhishek Sharma	Published
An improved hybrid energy generation system for waste water treatment plants	Dr. Kamal Kishore Khatri	Published
Submerged Arc Welding apparatus	Dr. Manoj Kumar	Published
Method of synthesizing ceramic oxide nanoparticles having tailored properties	Prof. Somnath Biswas	Published
A method of synthesizing α-Fe2O3 (Hematite) nanoparticles with controlled microstructure for pertinent applications	Prof. Somnath Biswas	Published
Method of synthesizing soft magnetic Ni-Zn ferrite nanoparticles having tailored properties	Prof. Somnath Biswas	Published
A method of synthesizing graphitic carbon stabilized nickel nanoparticles having tailored properties	Prof. Somnath Biswas	Published
Method of synthesizing ZnO: Metal (Metal : Zn, Ag) core-shell nanoparticles	Prof. Somnath Biswas	Published
Process for Synthesizing Metallic Foams Controlled Shape, Size and Uniform the Pores	Prof. Somnath Biswas	Published
Synthesis of Shapecontrolled Pristine and Diluted Magnetic Zinc Oxide Nanoparticles with Properties	Prof. Somnath Biswas	Published
Nanoparticles Having Highly Tunable Properties and Method of Synthesizing the Same	Prof. Somnath Biswas	Published
Optimal Tapping of Light Enerty by Coherence Length Limit & Using Prevent the Diminishing of Collected Spatial & Temporal Averaging	Prof. Anupam Singh, Prof. Somnath Biswas	Published
A Standalone Security Device and System for initiating pre-emptive action for proving a safe environment to women in a vehicle	Dr. Preety Singh, Dr. Rajbir Kaur, Dr. Sunil Kumar	Published
Mechatronics System Design to avoid the Train Derailment	Dr. Prabin Kumar Jha	Filed
IoT based Smart Home Gas Leakage Prevention System	Dr. Abhishek Sharma	Filed

Workshops and Conferences

Title of the Event	Organized by	Event Date
Nvidia 5-day Training Workshop Introduction to DGX, Nvidia GPU Cloud (NGC), Hands-on sessions on docker, regression, clustering, neural networks, CNN, image classification, object detection, image segmentation	CSE Department	March 9-13, 2021
International Workshop on Multimedia Applications (IWMA 2021) Theme: Intelligent Multimedia	CSE Department	March 2-6, 2021
Faculty Development Programme AICTE-ISTE sponsored FDP on "Blockchain Technology	CSE Department	December 7-12, 2020
Robotics training at Patrika in Education	ECE Department & Rajasthan patrika	June 18-23, 2020
Online program on Digital Circuit Design and Verification using Vivado	ECE Department & CoreEL Technologies Pvt. Ltd.	May 25 - June 12, 2020
International Workshop on Multimedia Applications (IWMA 2020)	CSE Department	January 9-11, 2020
Workshop on Accelerating numerical computation on NVIDIA GPUs	CSE Department	October 18-19, 2019
Workshop on 5G Specifications and standardization by Industry Experts	ECE Department	April 23-24, 2019
Brainstorming: Key to discovering self, innovative research and teaching	MME Department	April 05, 2019
National Workshop on "Basics of Image Processing using OpenCV and MATLAB"	CSE Department	March 19, 2019
National Workshop on Topology and Functional Analysis (NWTFA-2019)	Mathematics Department	March 11-15, 2019
International Workshop on Multimedia Applications (IWMA-2019)	CSE Department	February 12-16, 2019
Workshop on Android, AI, ML-Python, Rubik's Cube and Web-Dev	CSE Department	January 19-20, 2019
National Workshop on Software Defined Networking and 5G	ECE Department	January 16-18, 2019
Training on IPG Carmaker	MME Department	September 5-6, 2018
Hands-on training on SMC Pneumatics & Electro-Pneumatics	MME Department	August 28-31, 2018
Training on PCB Designing	MME Department	May 9-10, 2018
Workshop on PLC, HMI/MMI, SCADA, Interfacing Project	MME Department	April 11-13, 2018
Faculty Development Program on Big Data Analytics	CSE Department	March 17-21,2018
Workshop on MATLAB	CSE Department	February 2-4, 2018
Workshop on Robotics	CSE Department	January 22-28, 2018

Training on Modular Production System, Distributing Station and CIROS	MME Department	January 3-4, 2018
National Instructional Workshop on Cryptography (NIWC)	Mathematics Department	July 5-7, 2017
Workshop on PLC, HMI/ MMI, SCADA, Interfacing Project	MME Department	April 1-3, 2017
Innovations in Software Engineering Conference	CSE Department	February 5-7, 2017
Advanced Level Workshop on Diffusion & Sub-Diffusion Problems: Theory, Numerics & Applications (WDSDPTNA)	Mathematics Department	January 31 - February 5, 2017





Lecture Series and Seminar

Session Title	Keynote Speaker	Event Date
Photonics for 5G Wireless Communication and Surveillance	Prof. Antonella Bogoni, SSSA, Pisa, Italy	Feb 19, 2021
Application of AI in Healthcare and Data Analysis using Tensorflow	Suryender Kr. Sharma & Johnathan Rajiv	Feb 11, 2021
Recent Trends and Innovation in Drone Technology	Mr. Arun Jaye Prakash, Director & CEO, Aviocian Technologies Pvt. Ltd. New Delhi	Jan 22, 2021
Artificial Intelligence (AI): Past, Present and Future	Dr. C. Mohan (Retd. from IBM Almaden Research Center and presently Visiting Prof. in NUS)	Jan 9, 2021
Models and Programs: Better Together	Dr. Sriram Rajamani (MD, Microsoft Research India)	Jan 9, 2021
Socialising and Learning with Machines	Prof. Nishanth Sastry, University of Surrey	Oct 27, 2020
Machine Learning Application in Businesses: Some Usecases	Dr. Kannan Balaji, Director, Nielson USA	Oct 17, 2020
AHA!!! Randomness!!!!	Prof. C. Pandu Rangan, IITM	Oct 10, 2020
At the margins: Experience of Indian women in COVID-19	Dr. Priyanka Tripathi, Department of Humanities and Social Sciences, IIT Patna	Oct 8, 2020
Narratives and their economic market values	Dr. Pragyan Rath, Business and Ethics Group, IIM Calcutta	Sep 18, 2020
Getting yourself published, an interactive session on writing a Research Article	Neha Agrawal, Alumna NTU Singapore, founder Wiseup Communications	Aug 29, 2020
Energy competence- how start-ups are making the world more sustainable	Solco Reijnders, PHYSEE Technologies, a Netherlands based startup	Aug 24, 2020
Design of ecosystem for continues innovation	Dr. Ade. Mobogunje, Stanford University USA	Aug 14, 2020
Thin film batteries - Power sources for next generation devices, Material issues in Development	Prof. Mohan Rao, IISc, Bangalore	March 11, 2020
Campaign and Awareness among Youth to Stop Sexual Violence	Prof. Lad Kumari Jain, University of Rajasthan, Jaipur	March 6, 2020
Two-dimensional hybrid inorganic/organic semiconductor systems for opto-electronics and photonics	Dr. Sylke Blumstengel Institut für Physik, Institut für Chemie & IRIS Adlershof, Humboldt-Universität zu Berlin, Germany	March 4, 2020

Challenges in Computational Calculus of Variations: 3 Examples in 1D	Prof. Carsten Carstensen Director of Center Computational Sciences, Humboldt-Universität zu Berlin	March 5, 2020
Some New Advances in Emerging Technologies for Beyond-5G Networks	Prof. Mark Flanagan University College Dublin, Ireland	February 20, 2020
Polynomials and Sums of Squares	Dr. Charu Goel, IIT Kanpur	February 15, 2020
Maintaining balance between academic and co-curricular life	Gagan Mani, (Alumnus) Amazon. Seattle	February 15, 2020
Bernstein polynomials, computer-aided geometric design and real algebraic applications.	Prof. Marie-Françoise Roy Emeritus Professor, University of Rennes, France	February 14, 2020
Core of Social Entrepreneurship	Mr. Kiran Verma Founder, Simply Blood	January 19, 2020
Application and Scope of AI-ML across industries	Mrs. Mathangi Sri Data Science Head, PhonePe	January 18, 2020
The Holy trinity- AI, Blockchain, IoT	Mr. Aman Sanduja Founder, Towards Blockchain	January 17, 2020
Competitive Coding and Key to Placements	Mr. Sandeep Jain Founder, Geeks for Geeks	January 17, 2020
Python Development, Web Development, Data Science, Linux Training	Mr. Himanshu & Ms. Ruchika Zeetron Networks	January 16, 2020
The Art of Living: Tap, Seva, Dhyana	Mr. Jitendra Mohan Awasthi, Yogi Ji Shiksha Niketan, Lucknow	January 15, 2020
Knowledge Graphs and their Central Role in Big Data Processing: Past Present, & Future	Prof. Amit Sheth, University of South Carolina	January 13, 2020
Knowledge-Infused AI for Healthcare	Mr. Manas Gaur, University of South Carolina	January 13, 2020
Deep Learning for Medical AI - Challenges	Prof. Jayanthi Sivaswamy, IIIT Hyderabad	January 11, 2020
Trusted Computer Vision	Prof. Mayank Vatsa, IIT Jodhpur	January 11, 2020
Fingerprint Biometrics: Challenges and Inspirations	Dr Kamlesh Tiwari, BITS Pilani	January 10, 2020
Challenges in Medical Image Computing	Dr. Suyash Awate, IIT Bombay	January 10, 2020
A Gentle Introduction to Ramsey's Theorem	Prof. Amitabha Tripathi, IIT Delhi	November 25, 2019
Understanding Natural Language	Prof. Deepak Khemani, IIT Madras	November 16, 2019

Some Fundamental Principles of Numerical Computations	Prof. M K Kadalbajoo, LNMIIT, Jaipur	November 14, 2019
Matrix Transformations on Sequence Spaces	Prof. Manjul Gupta, IIT Kanpur	November 5, 2019
Far Field Boundary Conditions and their Approximation	Prof. AS Vasudeva Murthy, TIFR-CAM Bangalore	November 1, 2019
Leadership and Organizational Change	Dr. Sweta Srivastava Malla, Indian Institute of Foreign Trade, New Delhi	October 23, 2019
Creating Healthy Relationship	Mr. Charlie Hogg, National Coordinator, Brahma Kumaris Australia	October 21, 2019
Auto Industry Evolution and Future Trends	Mr. Rajinder Kaul, Tata Motors, Pune	October 21, 2019
Band offsets and nonlinear optical properties of oxide semiconductors	Prof. Pratima Sen, Devi Ahilya Vishwavidyalaya, Indore	October 18, 2019
Quantum Optics and its applications	Prof. Pratima Sen, Devi Ahilya Vishwavidyalaya, Indore	October 15, 2019
Social Computing, Machine Learning & Online Social Media	Prof. Ponnurangam Kumaraguru, IIIT Delhi	October 3, 2019
Gravitational waves	Prof. Anupam Singh, LNMIIT, Jaipur	September 19, 2019
Stress Management	Dr. Vaishali Patil, Brahma Kumaris	September 5, 2019
Simulation and its Applications	Prof. C. B. Gupta, LNMIIT, Jaipur	August 9, 2019
Guest talk on Orientation Program	Prof. Ramesh Arora, Chairman HCMRIPA, MDA Jaipur	July 30, 2019
Research Trends in Speech Processing	Dr. Suryakanth V Gangashetty, IIIT Hyderabad	July 19, 2019
Multilingual Speech to Speech Translation for Natural Language Processing	Dr. Suryakanth V Gangashetty, IIIT Hyderabad	July 18, 2019
Machine Learning Approaches for Pattern Recognition Tasks	Dr. Suryakanth V Gangashetty, IIIT Hyderabad	July 17, 2019



Infrastructure



The LNMIIT, spread over 100-acre green campus, is at par with the best technological institutions in the country. It possesses IT-enabled classrooms, well-equipped laboratories, a rich central library, and other modern amenities. Some of the key highlights of LNMIIT infrastructure are the following:

Academic Area

There are seven air-conditioned and eighteen air-cooled lecture halls equipped with multimedia facilities, and with virtual teaching/learning aids. There are also seminar halls and meeting rooms. The institute also has an open-air theatre. In addition, one 400+ capacity multi-utility hall is also available as part of student activity centre. The institute has 32 state-of-the-art laboratories having latest technology equipment. Some of the labs are Electronics Lab, Microwave and Optical Communication Lab, Digital Signal Processing Lab, Communication Lab, Electrical Characterization Division, Materials Synthesis Division, Advanced Instrumentation Division, DI Water Plant, Physics Lab, CAD Lab, Graphics Lab, IC Engine Lab, Fluid Mechanics & Turbo-machinery Lab, Heat Transfer Lab, Material Analysis Lab, Automobile Engineering Lab, Computer Integrated Manufacturing Lab, Kinematics & Dynamics of Machine Lab, Mechatronics Lab, Metrology Instrumentation and Control Lab, MME Workshop, Robotics & Industrial Automation Lab.



Resource Centres

- IBM Laboratory with industry standard tools for Big Data Analytics, and Mobile Application Development tools like Cognos Insight, InfoSphere Biginsight, Worklight.
- National Instruments (NI) laboratory with myRIO, cR10, and sbRIO hardware, along with a wide range of sensors and actuators for research and robotic applications.
- Texas Instruments (TI) laboratory with the latest kits including Beaglebone Black, D8500, TIVA and Atmel Dragon Board Xmega, and Raspberry Pi Boards.
- High-end tools for Modelling, Design, and Simulation, which includes ANSYS, Adams and Vi-Rail. High-speed internet, including Wi-Fi in academic area and LAN connectivity in hostel rooms.
- Mechanical Workshop with conventional workshop and laboratories and NC-CNC machines and robots

LNMIIT Unified Computing Services



- **Institute has three leased Internet connectivity:** 1Gbps through NKN, 1Gbps through Jio and 200 Mbps through Reliance Communication.
- **VoIP and Internal Telephony:** The Institute has Enterprise Grade Communication Server with a hybrid gateway for VoIP-based Internet Telephony and PSTN connectivity with advanced functionalities like IVR and Web Collaboration.
- **Video Conferencing:** The Institute has two dedicated video conferencing (VC) rooms. Institute also has two on-demand software based VC setups to facilitate various academic collaborations through interactive lecture sessions which involve remote experts and local audiences.
- **Audio-Visual facility:** All lecture halls and mostly labs are enabled with Audio-Visual (projection) facility mostly with Wi-Fi connectivity.
- **Centralized High Performance Computing facilities:** Institute has an HPC cluster consisting of 140 computing cores on 7 nodes and GPU Server to cater research and development requirements of students and faculty members. Various softwares running on the HPC includes the Matlab, Ansys and several compilers.
- **Servers & Workstations:** The Institute has various servers & workstations various software related to academic, library, ERP, application softwares, and network services. Institute also has multiple storage server for file and data storage.
- **Learning Management System:** The Institute has been using several learning and collaboration platforms. These include learning management systems like Moodle and Google Classroom including online lecture delivery, quizzes, assessment and notifications. In addition, a few faculty members use collaboration platforms like Piazza. Institute is also using blended learning and flipped classrooms to enhance learning experience.
- **Other Network-based Services to student and faculty members:** In addition to the services listed above, the Institute also provides Authentication Services, E-Mail Services, Directory Services, Printing Services, File Transfer Services, Quota-based Storage Services, select Security Surveillance Services, etc.
- **Power Backup:** Dedicated online UPS for server room and another Online UPS for Computing Nodes in various laboratories, offices in Academic Area and lecture hall area.

Central Library

The mission of Central Library is always to support and bridge the gap between teaching and research and in that direction library is progressing each year at the Institute.

The Central Library is located in the center of the Institute, it is fully automated and equipped with the anti-theft security system. Library holds more than 19794 text and reference books, 130 e-books, a subscription to 65 National and International Periodicals, and approx. more than 48,160 e-journals which are accessible through a subscribed database via IP access mode. To cater to the requirements of the users under the resource sharing initiatives library has established a network and co-operative arrangement with many resourceful libraries and consortia, e.g., INFLIBNET, Gandhinagar; IIT Gandhinagar; Developing Library Network (DELNET), New Delhi; Indian Association of Special Libraries and Information Centers (IASLIC), Kolkata & National Association of Software and Service Companies (NASSCOM).

The library also has the institutional membership of the National Digital Library of India, the platform that provides access to 10,048,671 multiple learning resource types in terms of books, articles, thesis, audio and video lectures, manuscripts, reports, etc. Library has created an institutional repository on open source software "D Space" which serves as a platform for archiving and storing the scholarly contents generated by the LNMIIT community; that includes, Ph.D. theses, B.Tech. project reports, book chapters, journal articles, conference papers, presentations, Institute Gazette, clips of media and news coverage etc. To support and help to the research community, the library offers the services such as plagiarism check, awareness and training on the research tools and platforms useful academic and research writing, literature support, publication support, research impact measurement and research data management and many more.





Accommodation

The Institute has four boys' and one girls' hostels to accommodate the students inside the campus. Hostel rooms are furnished and are quite spacious and comfortable. Hostel's infrastructure is fastened with amenities like 24-hour power supply, cold and hot water availability, Intranet and Internet connectivity, clean and hygienic environment, central air cooling system, common laundry support, reading room, common rooms with TV, various indoor games, 24-hour security and surveillance system, dedicated gym for girls inside girls Hostel and many more facilities are available inside the hostel and campus. The Institute has dedicated wardens, caretakers, and student members team to manage discipline in the hostels.




Mess and Canteen

The Institute has three different common messes for the students. All messes are well equipped with advanced equipment to cater service to the students in an efficient manner with an air cooling facility to beat the heat during the summer. Nutritious foods are decided by elected student members with the guidance of the Warden committee on the basis of students' feedback. These messes serve breakfast, lunch, snacks and dinner. Once a month, the mess organises a special lunch/dinner. To ensure proper hygiene and quality control all the messes are inspected periodically.

Shopping Complex

To fulfill the day-to-day needs of the campus residents, a mini shopping complex is in place which includes stationery shop, Amul parlour, laundry shop, salon, juice shop, departmental store and restaurants and refreshments shops.

Medical Unit

The Institute has a well-equipped medical unit. It has a resident doctor, three resident nurses and other support staff. The medical unit boasts of an emergency care section, physiotherapy unit, ambulance service, and tie-up with a nearby advanced hospital for immediate referral/treatment. Frequent visits of specialized doctors are arranged throughout the year. The Institute also facilitates a group medical insurance policy for all its students, staff and faculty.





Student Activity Centre (SAC)

Student Activity Centre (SAC) is the hub of all indoor student activities. It comprises three synthetic badminton courts, multiple table tennis tables, one well-furnished squash court, boxing arena, karate arena with mats, two gyms comprising machines for every aspect of a fit body, chess and carom room. Additionally, there is dance and music studio and an Open-Air Theatre (OAT) where all cultural events of the Institute are organized.

Outdoor Sports Facilities

For holistic development of the students, wide range of outdoor sports facilities are available including one cricket and football ground, two basketball and volleyball courts, a lawn tennis court, 3 km jogging/cycling track, one open air gymnasium and a kabaddi ground.

Bus Service

The Institute has three buses which ply between Jaipur city and the campus at regular intervals every day. The campus residents also have access to the low floor bus of Rajasthan State Road Transport Corporation to commute to and fro the city.

Placement

Placements at a Glance

The Training and Placement Cell (TPC) of the institute handles all aspects of placements at LNMIIT for the students of all departments. It is a student body, directly under the supervision of the honorable Director, headed by the Training and Placement Officer and guided by the Faculty Advisors. The Cell stands for branding the outlook of the university to the corporate and the industry.

The Training and Placement Officer along with the TPC team including Junior Placement officer and student members handle various crucial tasks in the Cell like reaching out to companies, scheduling and executing placement related activities and carrying out all official communication with recruiters and students. The Cell strives to match recruiter expectations with students' aspirations. The team of student representatives coordinate the activities to ensure compliance with various institute policies and company officials, who execute coordination with their recruiting organizations. Over the years the Cell has gone from strength to strength in achieving outstanding placements at LNMIIT and will continue to do so in the years to come.

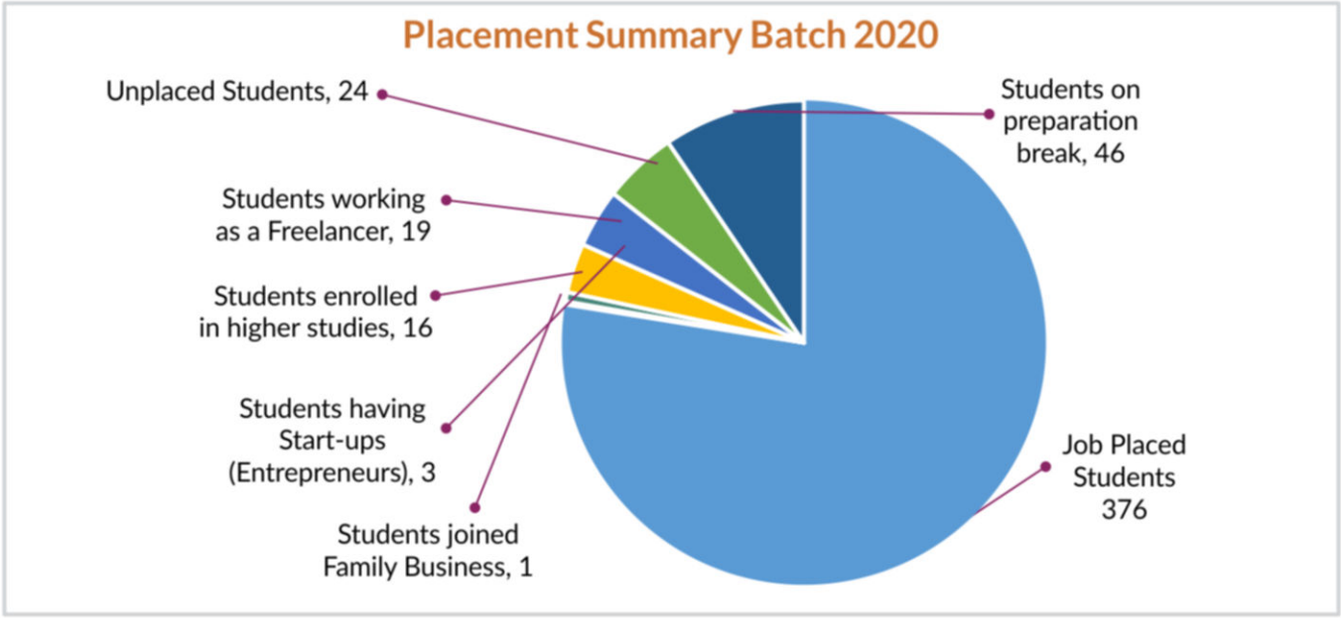
The Cell also helps those students who have high aspirational goals like entrepreneurship, higher studies, research and preparation for competitive exams etc.

Placement Data 2020 & 2021*

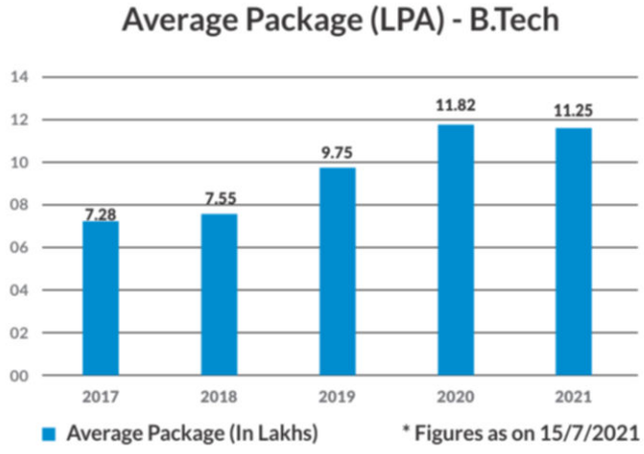
Graduating Year	Batch Strength (UG)	Students registered for Placement	Placed Students (Jobs)	Total Job Offers (Including multiple offers)	Number of Companies Visited	Placement % of Registered Students	Highest Salary Package	Average Salary Package
2020	485 (Graduated batch Strength)	400	376	477	70	94%	63.27 Lakhs/ Annum	11.82 Lakhs/ Annum
2021 (as on July 2021, ongoing)*	445	374	353**	437**	56	94.38 %	58.85 Lakhs/ Annum	11.25 Lakhs/ Annum

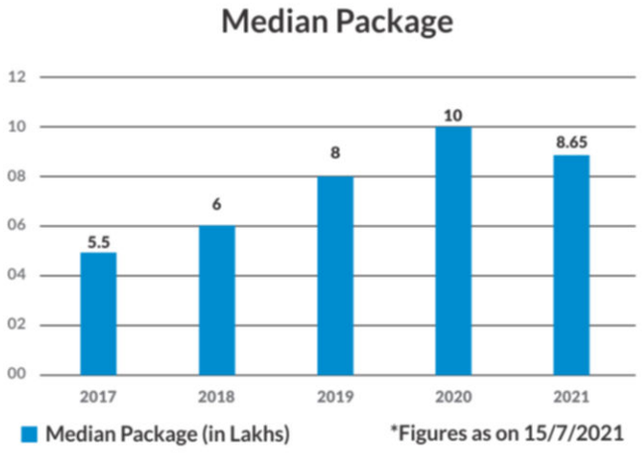
** Including Full time & internship offers.

*Placement Session for 2021 batch is still on so placement stats may change further.



The strength of graduated batch in 2020 was 485.





Major Recruiters

Google, Amazon, Adobe, Unicommerce eSolutions, Innovaccer Analytics, Vmware,Lucideus Technologies, BNY Mellon,Whatfix , Addverb Technologies, Pensando Systems, ZS Associates, SLK Software, Delhivery, Mahindra Comviva, Treebo Hotel and many more....

* The above collage includes emblems/logos of different companies/organisations. The institute recognises that these emblems/logos are owned by respective companies.



Alumni

The Institute takes efforts to continuously innovate in multiple spheres. LNMIIT is known to be one of the best Institutes in the country outside of the IIT system, both in terms of student and faculty quality and academic & research environment. Undoubtedly, it is a matter of immense pride that LNMIIT's Alumni have notched up as entrepreneurs, social workers, engineers, technologists, strategists, artists, academicians, managers, scientists, and have earned due respect from relevant quarters both locally and globally.

Many of our students have and are pursuing higher studies in premier institutes such as the IITs, IIMs, XLRI, and so on in India and prestigious universities and institutes in foreign countries such as:

University of Illinois, Chicago, USA	University of California, San Diego, USA
The University of Texas at Dallas, USA	University of Southern California, Los Angeles
North Carolina State University, USA	Arizona State University, Phoenix, AZ, US
Polytechnic Institute of New York University, USA	Wright State University, USA
Aston University, Birmingham, UK	University of Maryland, College Park
Simon Fraser University, Vancouver, Canada	Waterford Institute of Technology, Ireland
Technical University of Munich, Germany	Helmut Schmidt University/ University of the Federal Armed Forces, Hamburg, Germany
RWTH Aachen University, Germany	Technical University Darmstadt, Germany
Queensland University of Technology, Australia	Nanyang Technological University (NTU), Singapore
INRIA, France	ETSE-UAB, Spain
Singapore University of Technology & Design, Singapore	University of Minnesota, USA
Northeastern University, Massachusetts	National University of Ireland Galway, Ireland
RWTH Aachen University, Germany	Rochester Institute of Technology, USA
University of Toronto, Canada	Texas A&M University, College Station
George Mason University, Virginia, USA	Deloitte Los Angeles, California , USA
Tandon School of Engineering, NY University	Carnegie Mellon University, Pennsylvania, US
University of Windsor, Ontario, Canada	New Jersey Institute of Technology, New Jersey, USA
Indiana University, Indiana, USA	Missouri University of Science & Technology, Missouri, USA
RWTH Aachen University, Aachen, Germany	Albert-Ludwigs-Universitat, Freiburg im Breisgau, Germany
Australian National University, Canberra, Australia	Aalborg University, Copenhagen, Denmark
King's College, London, UK	Uppsala University, Sweden
Penn State University, Pennsylvania, USA	Worcester Polytechnic Institute, Massachusetts, US
And many more	

Entrepreneurs/ CEOs

Our alumni are CEOs and first generation entrepreneurs, who have started organizations like:

Company	Year of Inception	Founder Alumni	Details
OpsLyft	2019	Mr. Aayush Kumar (Y16) CEO & Founder	DevOps as a Service
Zubi Infotech	2019	Mr. Punit Agarwal (Y16) CEO	Information and Technology
Wrytin Technologies Private Limited	2019	Mr. Karan Agarwal (Y15) CEO	Information and Technology
OC2	2019	Mr. Susmit (Y15) CEO	Information and Technology
Ideepners	2018	Mr. Shubham Sharma (Y14), Mr. Harshit Jain (Y14), Mr. Chhatrapati Jain (Y14) Co- Founders	Information and Technology
InstaCash	2017	Mr. Saurabh Gupta (Y04) CEO	InstaCash is the "Simplest way to get over used phones". And is advocating E-Clean India, in sync with Prime Minister's Swachh Bharat Abhiyaan.
Veris	2016	Mr. Utkarsh Jain (Y12) CEO	Enterprise Solutions, Enterprise Mobility Platform, Identity Management, IoT, Connected Workplaces, Mobile Apps, Cloud Solutions, SaaS, Digital Workplace, Visitor Management, Access Solutions, Enterprise Security, Smart Offices, & Facility Management
Event Graphia Pvt ltd	2016	Mr. Dhiyavasu Bhadauria (Y13) CEO & Founder and Mr. Palansh Agarwal (Y13)	Event Management
Wijungle	2014	Mr. Karmesh Gupta (Y12) Co-founder and CEO	WiJungle is a unified network security gateway that helps organizations to manage and safeguard their entire local area network through a single window. Selected by Forbes under top young entrepreneurs 30 under 30 Asia-Enterprise Technology 2020.
Safe Security (Formerly Lucideus)	2012	Mr. Saket Modi (Y09) CEO	Cyber-security Services
Dream Animators	2012	Mr. Prateek Saraf (Y06) CO-Founder	CTO and CO-Founder of AppIn, Founder of Dream Animators
Neutrino Technologies (Investor)	2009	Mr. Saurabh Gupta (Y04) CEO	IT service company
Enuke Softwares	2008	Mr. Manu Yadav (Y03) CEO	Enuke have expertise in PHP, .NET, CMS – Drupal/Joomla/WordPress , GIS & Google Maps
BigStep Technologies	2008	Mr. Vidit Paliwal (Y03) Co-Founder	BigStep is a Complete End-To-End Digital Technology Solutions Provider

Many of our alumni are in higher positions in various corporate companies such as:

Arcelor Mittal	American Express (India) Pvt Limited	Microsoft
Tata Consultancy Services (TCS)	Goldman Sachs	Bosch
Samsung (R & D)	Goldman Sachs	Uber
Urban Clap	Pharm Easy	Daily Hunt
Amazon	Google	Wayfair
Adobe	Go-Jek	Addverb Technologies Pvt. Ltd
Episource India Pvt Ltd	Delhivery	Senra Tech Pvt Ltd
NBC flexible solutions	Nagarro	BNY Mellon

Besides the above mentioned domains, our alumni are also in leading positions in the government sector and have made us proud through their contribution towards nation-building. They are prestigiously serving as higher officials in the Indian Army, BSE Central Secretariat and so on.

The institute takes delight to mention that the Alumni network is spread globally (about 64% in North America, 21% in Europe, and the rest in Singapore, China and Australia). Besides the above mentioned achievements, some of our distinguished alumni are:

- Ashwani Sharma, Ph.D.: Working as an Assistant Professor, Indian Institute of Technology Ropar.
- Hemant Purohit, Ph.D.: Working as an Assistant Professor, Information Sciences and Technology at George Mason University, Washington DC.
- Kriti Bhargava, Ph.D.: Assistant Professor-in-Residence in Computer Science and Engineering at University of Connecticut, Stamford, USA.
- Smrati Gupta, PhD: Lead Data Scientist, Broadcom Inc.,USA.
- Ashish Goyal, Postdoctoral Research Associate at Los Alamos National Laboratory, USA
- Sanjay Goyal, Ph.D.: Senior Engineer, InterDigital Labs, Tandon School of Engineering, New York University, Brooklyn, USA.
- Radhika Loomba, Ph.D.: Research Scientist, Intel Labs Europe.
- Anshu Gupta, Ph.D.: General Manager-ADAS, Continental AG

The institute also has an Alumni Association which has been connecting alumni all over the world by organizing 'Chapter meets' in various cities across the globe, and the 'Alumni Meet' at the institute campus. As the goodwill ambassadors and torch-bearers of the institute, each one of our alumni plays an integral role in guiding and motivating the current students to choose their career paths and accomplish their goals with excellence. The institute is proud of each one of them for proving their brilliance in different walks of life and chosen career paths.

For more detailed information regarding Alumni and related events, kindly visit **https://alumni.lnmiit.ac.in/**



Admissions 2021-22

Undergraduate Programmes

Undergraduate Programmes Offered

The Institute offers undergraduate admission in following AICTE approved programmes for Academic Year 2021-22:

Programme	Branch
B.Tech.	Communication and Computer Engineering (CCE)
	Computer Science and Engineering (CSE)
	Electronics and Communication Engineering (ECE)
	Mechanical Engineering (ME)
B.Tech. – M.Tech. (5 Year Integrated Dual Degree)	Computer Science and Engineering (CSE)
	Electronics and Communication Engineering (ECE)

NOTE:

- The Institute has no provision for either Capitation Fee or Management Quota.
- The Institute reserves the right to reflect any changes with respect to the admission to a programme, number of rounds of seat allocations, respective deadlines, and also any changes as may be necessary in view of statutory requirements/ notifications from time-to-time.

There are four modes of admission for the above mentioned programmes.

1. **Regular Mode**
2. **Direct Mode (For 12th Board Toppers)**
3. **DASA (Direct Admission to Students from Abroad) Mode (For Foreign Nationals/ Overseas Citizens of India/ Non-Resident Indian/ Children of Indian Workers in Gulf Countries)**
4. **Lateral Entry Mode (For admission to 2nd year undergraduate programmes)**

The details of each of these modes of admission are as follows.

Regular Mode

Programmes offered and available number of seats

Programme	Branch	Seats
B.Tech.	Communication and Computer Engineering (CCE)	120
	Computer Science and Engineering (CSE)	240
	Electronics and Communication Engineering (ECE)	150
	Mechanical Engineering (ME)	60
B.Tech. – M.Tech. (5 Year Integrated Dual Degree)	Computer Science and Engineering (CSE)	10
	Electronics and Communication Engineering (ECE)	10

NOTE:

- The number of seats mentioned above are tentative in nature. The number of seats may be changed appropriately considering the overall academic quality of incoming students, regulatory/statutory provisions, etc.
- A maximum of 5% of the seats within each branch may be available for Non-resident Indian (NRI) candidates as per regulatory norms. (Such seats will be filled through DASA mode of admission.)

Eligibility Criteria

- The applicant must be a citizen of India. (Candidates holding OCI status must have to apply under DASA mode.)
- The applicant must be appearing in Paper 1 (B.E. /B.Tech.) during one or more sessions of JEE (Main) 2021 Examination conducted by the National Testing Agency (NTA).
- The applicant must have passed Class 12th (10+2) examination with Mathematics and Physics as compulsory subjects along with one out of Chemistry/ Computer Science/Electronics/Information Technology/ Biology/Informatics Practices/ Biotechnology/ Technical Vocational subject. Applicants appearing in class 12th examination are also eligible to apply.
- The applicant must have passed with an aggregate of minimum 60% marks or equivalent grade in Class 10th examination.

Preparation of Merit List

- A Merit List will be prepared solely on the basis of Final NTA score (percentile) obtained in Paper-1 (B.E./B.Tech.) in JEE (Main) 2021 Examination, for all eligible applicants.
- In case of identical Final NTA Score (Percentile), the following tie-breaker rules will be applied.
  - Mathematics NTA Score (Percentile) in JEE (Main) 2021
  - Physics NTA Score (Percentile) in JEE (Main) 2021
  - Chemistry NTA Score (Percentile) in JEE (Main) 2021
  - Total Percentage of marks in Class 10th examination

Direct Mode

Admission under this mode is available for candidates who are the toppers of all those recognised central and state boards in India who publish official merit lists.

Eligibility Criteria

- An applicant who is among
  - Top 10 students in Class 12th examination in the academic year 2020-21 from the Merit List of the Rajasthan Board of Secondary Education (RBSE), provided that official Merit List mentioning such ranks is published.

    OR
  - Top 2 students in Class 12th examination in the academic year 2020-21 of all those Central and State Boards in India who publish authorized Merit List indicating ranks.
- The applicant must have secured an aggregate of at least 60% marks or equivalent grade in Class 10th examination.

Selection Procedure

- Only the topper of each board, who have applied to LNMIIT for admission and fulfil the Eligibility Criteria mentioned above, will get the branch of their choice.
- An internal committee will look into the rest of the applications under this mode and considering the number of available seats will allocate branch of admission.

DASA Mode

Admission under this mode is open for applicants under following three categories:

- **Foreign Nationals (FN)/ Overseas Citizens of India (OCI)**
  Candidate must have a valid passport issued by a foreign country.
- **Non-resident Indian (NRI)**
  Candidate must have completed her/his Class 11th and 12th or equivalent from outside India.
- **Children of Indian Workers in Gulf Countries (CIWG)**
  Candidate must have completed her/his Class 11th and 12th or equivalent from a gulf country (Bahrain, Iraq, Iran, Kuwait, Oman, Qatar, Saudi Arabia, UAE) and at least one of the parent must be working in a gulf country.

Programmes offered and available number of seats

Programme	Branch	Seats (Category-wise)		
		FN/OCI	NRI	CIWG
B. Tech.	Communication and Computer Engineering (CCE)	12	6	6
	Computer Science and Engineering (CSE)	24	12	12
	Electronics and Communication Engineering (ECE)	15	7	7
	Mechanical Engineering (ME)	6	3	3

NOTE:

- The number of seats mentioned above are tentative in nature. The number of seats may be changed appropriately considering the overall academic quality of incoming students, applicable statutory/regulatory provisions, etc.

Eligibility Criteria

- The applicant should be a native English speaker or should have studied 10+2 in English medium school or should have a minimum aggregate score of 1040 (out of a maximum of 1600) in SAT.
- The applicant must have secured a minimum of 90 percentile as Final NTA score (percentile) in Paper 1 (B.E. /B.Tech.) of JEE (Main) 2021 Examination conducted by the National Testing Agency (NTA).
- The applicant must have passed Class 12th (10+2) examination or equivalent examination from board recognised by Association of Indian Universities (AIU) with Mathematics and Physics as compulsory subjects along with one out of Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject. Applicants appearing in class 12th examination are also eligible to apply.
- The applicant must have passed with an aggregate of minimum 60% marks or equivalent grade in Class 10th examination or equivalent from board recognised by Association of Indian Universities (AIU).

Preparation of Merit List

- A separate Merit List for each category will be prepared solely on the basis of Final NTA score (percentile) obtained in Paper-1 (B.E. /B.Tech.) in JEE (Main) 2021 Examination, for all eligible applicants.
- In case of identical Final NTA Score (Percentile), the following tie-breaker rules will be applied.
  - Mathematics NTA Score (Percentile) in JEE (Main) 2021
  - Physics NTA Score (Percentile) in JEE (Main) 2021
  - Chemistry NTA Score (Percentile) in JEE (Main) 2021
  - Total Percentage of marks in Class 10th examination

Instructions to apply

- Interested applicants have to necessarily fill the online application form through the UG admission portal.
- The candidate has to pay a non-refundable application fee of INR 1600/- (For Regular, Direct, Lateral entry mode of admission) or INR 7500/- (For DASA mode of admission).
- Application Form other than online mode would not be accepted in any case.

Lateral Entry Mode

Eligibility Criteria

- The applicant must have secured an aggregate of at least 75% Marks or equivalent GPA/CPI with no backlog in B.Tech./B.E. Semester I or Semester I and II combined as available.
- The applicant must have appeared/completed B.Tech./B.E. Semester II.
- The applicant must have appeared in JEE (Main) 2020 Examination conducted by the National Testing Agency (NTA).
- The applicant must have a JEE (Main) 2020 percentile score equal or above the Cut-off scores of the admission year 2020 in the branch in which admission is sought.
- The applicant must have secured an aggregate of at least 60% Marks or equivalent Grade in Class 12th Examination.
- The applicant must have secured an aggregate of at least 60% Marks or Equivalent Grade in Physics, Chemistry, and Mathematics in Class 12th Examination.
- The applicant must have secured an aggregate of at least 60% Marks or equivalent Grade in Class 10th Examination.

Preparation of Merit List

- A Merit List will be prepared, solely on the basis of total percentile obtained in Physics, Chemistry and Mathematics in JEE (Main) 2020 Examination, of only those applicants who have applied to LNMIIT for admission and fulfill the Eligibility Criteria mentioned above.
- The admission through Lateral Entry mode will be based on the above prepared Merit List.

Fee Structure

Fee for applicants admitted through Regular, Direct and Lateral Entry modes:

A. Caution Money (One time deposit; Refundable at the end of the Programme; No interest is payable)	INR 10,000
B. Semester Fee	
• Registration Fee	INR 3,000
• Tuition Fee	INR 1,63,325

Fee for applicants admitted through DASA mode:

	CIWG Applicants	FN/OCI, NRI applicants
A. Caution Money (One time deposit; Refundable at the end of the Programme; No interest is payable)	INR 10,000	INR 10,000
B. Semester Fee		
• Registration Fee	INR 3,000	INR 3,000
• Tuition Fee	INR 1,63,325	USD 9,400 or INR 7,05,000 (Yearly)

*Foreign Nationals, who are nationals of SAARC countries (Afghanistan, Nepal, Bhutan, Bangladesh, Pakistan, Sri Lanka and Maldives), will be eligible for 50% Tuition Fee waiver.

NOTE:

- All charges are mandatory, nothing can be waived off in any circumstances.
- The Institute also offers various scholarship/assistantship schemes and the details can be found in Scholarship Policy section.
- The Institute runs a skeleton bus service which can be availed on payment basis.
- The Governing Council (GC) of LNMIIT reviews the Fee Structure periodically. There will be an annual increase of approximately 10% in Fee.
- Medical-cum-Accidental Insurance Charges shall be levied yearly on actual basis from 2nd Semester onwards.

Hostel and Mess charges per semester

Hostel Charges	INR 21,000
Electricity & Internet Charges	INR 7,100
Mess Establishment Charges	INR 1,000
Student Activity Charges	INR 1,500
Mess Charges (Advance) - Adjustable as per actual at the end of the Semester	INR 16,000

NOTE:

- The LNMIIT is a residential institute. Therefore, staying in the Hostel and joining the Mess is compulsory for all the students. This condition may be relaxed if:
  - There is a shortage of accommodation or any other reason beyond institute's control.
  - A student has a genuine reason to stay outside the campus. In this case, the institute will take the final decision on case-by-case basis.
- If a student is permitted for day-boarding, Hostel Fees and Mess Maintenance Charges would be decided by Hostel Administration.
- Although LNMIIT is a residential institute, in view of COVID-19 specific physical distancing norms, hostels would not be mandatory and accommodation in the hostel would be subject to availability.

Postgraduate Programmes

Institute offers admission in the following PG programmes

Masters Programmes Offered

Programme	Branch	Seats*
M.Sc.	Mathematics	15
	Physics	15
M.Tech.	Computer Science and Engineering (CSE)	15
	Electronics and Communication Engineering (ECE)	15
M.S. (by Research)	Communication and Computer Engineering (CCE)	5
	Computer Science and Engineering (CSE)	
	Electronics and Communication Engineering (ECE)	

* The Institute has no provision for either Capitation Fee or Management Quota.

** These numbers are tentative in nature. The number of seats may be changed appropriately considering the overall academic quality of incoming students, regulatory permissions, etc.

Eligibility Criteria

M.Sc. (Mathematics)

Minimum 55% or equivalent CPI/ CGPA in B.Sc./ B.A./ B.E./ B.Tech./ B.Sc. (Engineering). Mathematics should be a major subject in the above Bachelor Degree.

M.Sc. (Physics)

- A minimum of 55% or equivalent CPI/ CGPA in three-year B.Sc. (Honours in Physics/ Applied Physics or Honours in Electronics/ Material Science/ Computer Science/ Chemistry/ Mathematics/ Statistics with physics is one of the major subjects).
- Four-year B.Tech./ B.E./ B.Sc. (Engineering) in any branch of Engineering.
- Three-year general B.Sc. Degree (with Physics as one of the major subjects).

M.Tech. (CSE and ECE) and M.S. (by Research) in CSE, ECE and CCE

Program	Eligibility Criteria
M.Tech. in CSE M.S. (by Research) in CSE	B.E. / B.Tech. in Computer Science and Engineering/ Information Technology / Software Engineering or related branch with a minimum of 60% marks or equivalent CPI/CGPA (with/without valid GATE score) OR B.E. / B. Tech. (in any branch) or MCA or M.Sc. (in Computer Science/ Information Technology/ Mathematics or related subject) with a minimum of 60% marks or equivalent CPI/CGPA and a valid GATE score in CS subject.
M.Tech. in (ECE) M.S. (by Research) in ECE	B.E. / B.Tech. in Electronics and Communication Engineering / Electrical Engineering / Instrumentation Engineering or related branch with a minimum of 60% marks or equivalent CPI/CGPA (with/without valid GATE score) OR B.E. / B. Tech. (in any branch) or M.Sc. (in Electronics / Physics with Electronics / Instrumentation or related subject) with a minimum of 60% marks or equivalent CPI/CGPA and a valid GATE score in EC subject.
M.S. (by Research) in CCE	B.E. / B.Tech. in Computer Science and Engineering / Information Technology / Electronics and Communication Engineering/ Electrical Engineering or related branch with a minimum of 60% marks or equivalent CPI/CGPA (with/without valid GATE score) OR B.E. / B. Tech. (in any branch) or MCA or M.Sc. (in Computer Science/ Electronics or related subject) with a minimum of 60% marks or equivalent CPI/CGPA and a valid GATE score in CS/ EC subject.

Note: 1.Candidates appearing for final examinations in 2021 can also apply.

Admission Procedure

M.Sc. (Mathematics / Physics)

Written Test

Category 1 : JAM qualified students will be exempted from written test.

Category 2 : Candidates not belonging to category 1 have to appear for the written test. The written test will be a qualifier for them.

Due to the covid-19 pandemic, there will be only online interviews and no written test in the M. Sc. admission entrance examination for the academic year 2021-22.

M.Tech. (CSE/ ECE) and M.S. (by Research) in CCE/CSE/ ECE

- **GATE:** Based on valid GATE score in concerned subject

  A merit list will be prepared solely based on GATE score for the applicants who satisfy the eligibility criteria and **have a valid GATE score** in concerned subject and **have secured marks above the qualifying marks in the General Category.**

- **Non-GATE:** Based on performance in the institute conducted written test
  - All Non-Gate applicants who satisfy the eligibility criteria have to appear for an institute conducted written test.
  - A separate merit list will be prepared based on the applicant's performance in the written test.

Admissions will be made based on the above prepared merit lists.

There are a total of 23 seats for GATE applicant (10 seats each in M.Tech. CSE and ECE, 3 seats in M.S. program) and 12 seats for Non-GATE applicant (5 seats each in M.Tech. CSE and ECE, 2 seats in M.S. program). In case seats remain vacant under one of the modes (GATE/Non-GATE), those seats will be transferred to the other mode.





Fee Structure

Fee for applicants admitted in M.Sc. (Physics / Maths)

A. Caution Money (One time deposit; Refundable at the end of the Programme; No interest is payable)	INR 10,000
B. Semester Fee	
• Registration Fee	INR 3,000
• Tuition Fee	INR 23,600

Fee for applicants admitted in M.Tech. (CSE / ECE) & M.S. (CCE / CSE / ECE)

A. Caution Money (One time deposit; Refundable at the end of the Programme; No interest is payable)	INR 10,000
B. Semester Fee	
• Registration Fee	INR 3,000
• Tuition Fee*	INR 86,300

NOTE:

- All charges are mandatory, nothing can be waived off in any circumstances.
- The Institute also offers various scholarship/assistantship schemes and the details can be found in Scholarship Policy section.
- The Institute runs a skeleton bus service which can be availed on payment basis.
- The Governing Council (GC) of LNMIIT reviews the Fee Structure periodically. There will be an annual increase of approximately 10% in Fee.
- Medical-cum-Accidental Insurance Charges shall be levied yearly on actual basis from 2nd Semester onwards.

* M.Tech. / M.S. tuition fee is fully waived for students opting for and getting half-time teaching assistant-ship/half-time research assistant-ship

Hostel and Mess charges (Per Semester)

Hostel Charges	INR 21,000
Electricity & Internet Charges	INR 7,100
Mess Establishment Charges	INR 1,000
Student Activity Charges	INR 1,500
Mess Charges (Advance) - Adjustable as per actual at the end of the Semester	INR 16,000

NOTE: Staying in the Hostel is optional. Hostel facility would be available subject to availability of the rooms.



Doctoral (Ph.D.) Programmes

The Institute offers Ph.D. Programmes in Engineering, Sciences, Humanities and Social Sciences. Moreover, the institute encourages quality and purposive interdisciplinary research in areas of its expertise. The broad objective of the Ph.D. Programme in the institute is to prepare the students to pursue their research careers in R&D organizations, industries and academia by the way of quality research of both basic and applied kind. The Institute provides a vibrant research atmosphere and invites applications from highly motivated applicants for admission to its Ph.D. Programme in the following departments:

- Computer Science & Engineering
- Electronics & Communication Engineering
- Mechanical-Mechatronics Engineering
- Physics
- Mathematics
- Humanities and Social Sciences

Eligibility Criteria

Department-wise Minimum Eligibility Criteria for Admission to Ph.D. Programmes

Department	Eligibility Criteria
Computer Science and Engineering (CSE)	Master's degree in engineering in a relevant field with 60 % marks or equivalent CPI/CGPA. OR Bachelor's degree in engineering in relevant field (typically 4-year programme) with a minimum of 90 % marks or equivalent CPI/CGPA and a valid GATE score of 99 percentile or above in the relevant area of application. (e.g. for Ph.D. in CSE, a B.Tech (CSE) with indicated percentage or CPI/CGPA and a valid GATE score in Computer Science and Information Technology(CS)).
Electronics and Communication Engineering (ECE)	
Mechanical-Mechatronics Engineering (MME)	
Mathematics	Master's degree in Mathematics or in the relevant subject with 55% marks or equivalent CPI/CGPA. OR Bachelor's degree in science and engineering (typically 4-year programme) relevant to Mathematics with 90 % marks or equivalent CPI/CGPA and a valid GATE score of 99 percentile or above in the relevant area of application.
Physics	Master's degree in Physics or in the relevant subject with 55% marks or equivalent CPI/CGPA. OR Bachelor's degree in science and engineering (typically 4-year programme) relevant to Physics with 90 % marks or equivalent CPI/CGPA and a valid GATE score of 99 percentile or above in the relevant area of application.
Humanities and Social Sciences (HSS)	Master's Degree in related subject/ relevant areas with a minimum of 55% Marks or equivalent CPI/ CGPA.

Please note that the qualifying degree of applicant should be from an accredited university /deemed-to-be-university or an institution of higher learning of comparable standing. The eligibility criteria given above are the absolute minimum. Institute may prescribe any requirements over and above these. In case the candidates are awarded grades/CPI/CGPA instead of marks, applicant would have to produce the grade-percentage conversion criterion or formula provided by the university/institution from where the applicant has obtained the degree. In case, where a university/institute does not provide any scheme for converting CPI/CGPA into equivalent marks, UGC and AICTE guidelines would be applicable.

Admission Procedure

Admission to the Ph.D. programme is offered to eligible candidates on the basis of a written examination and an interview. Consequently, all applicants who qualify in the written examination have to appear for the personal interview on the same day or very next day. Candidates who have qualified for national level fellowships like CSIR/UGC-NET-JRF, DST-INSPIRE, NBHM Ph.D. scholarship or equivalent valid fellowship in the relevant subject/discipline may be exempted from the written examination but not from the interview.

Fee Structure

Fee for applicants admitted in Ph.D. Programme

A. Caution Money (One time deposit; Refundable at the end of the Programme; No interest is payable)	INR 10,000
B. Semester Fee	
• Registration Fee	INR 3,000
• Tuition Fee	INR 23,600

Note:

- All charges are mandatory, nothing can be waived off in any circumstances.
- The Institute also offers various scholarship/assistantship schemes and the details can be found in Doctoral fellowship section
- The Governing Council (GC) of LNMIIT reviews the Fee Structure periodically. There will be an annual increase of 10% in Fee.
- Medical-cum-Accidental Insurance Charges shall be levied yearly on actual basis from 2nd Semester onwards.
- Limited financial support is available as per institute norms in form of partial or full tuition fee waiver on account of outstanding research publications.

Hostel and Mess charges (per semester)

Hostel Charges	INR 21,000
Electricity & Internet Charges	INR 7,100
Mess Establishment Charges	INR 1,000
Student Activity Charges	INR 1,500
Mess Charges (Advance) - Adjustable as per actual at the end of the Semester	INR 16,000

NOTE: Staying in the Hostel is optional. Hostel facility would be available subject to availability of the rooms.



Scholarships & Assistantships

The LNMIIT has made a provision of various types of Scholarships and Assistantships in order to encourage merit, foster internal competition and support the economically challenged students, with certain level of academic performance.

Undergraduate Scholarships

- **Merit Scholarships:** For select top rankers/meritorious students based on the following academic criteria.

  First Semester:
  - Top 20 rankers (up to top 5000 rank, in general category) of JEE Advanced exam. The scholarship amount is up INR 35000 per semester.
  - Up to next 20 rankers (if up to top 7500 rank, in general category) of JEE Advanced exam. The scholarship amount is INR 30000 per semester.
  - Up to next 20 rankers (if up to top 12000 rank, in general category) of JEE Advanced exam. The scholarship amount is INR 25000 per semester.

  Second Semester onwards: Academic performance at LNMIIT (CGPA of 9.25 or above).
  - CGPA 9.81-10: The scholarship amount is up to INR 35000 per semester.
  - CGPA 9.51-9.8: The scholarship amount is up to INR 30000 per semester.
  - CGPA 9.25-9.5: The scholarship amount is up to INR 25000 per semester.
- **BPL Scholarships:** A few BPL Scholarships are available for the neediest students.

  Academic Eligibility:
  - **First Semester:** Not Applicable.
  - **Second Semester onward:** For the continuity of the scholarship, the students will have to maintain the prescribed minimum academic performance (Academic eligibility: CGPA of 6.0 and above with no backlogs). The amount is equivalent to the full Tuition fee.
- **Note:** The first reduction in CGPA below 6.0 will lead to a warning and continuance of the same in the next semester will lead to termination of scholarship. Backlog will result in immediate termination of scholarship. However, re-attainment of CGPA of 6.00 or above will result in reinstatement of scholarship.

  Financial Eligibility:
  - Applicable to BPL cardholders and Beneficiaries of the National Food Security Act, 2013 having annual income below one Lac. (In some states on the adoption of the above Act, the categories of BPL and APL have been merged into new categories, namely, Patragrihasthi (Priority household) and Antyodaya etc.)
- **Vijay Bhatnagar Scholarship:** For a meritorious and economically challenged girl student based on the following criteria. The scholarship amount is INR 50000 (INR 25000 per semester)
  - **Academic Eligibility:** This scholarship is for an academically bright girl student with CGPA 8.5 or above with no backlog.
  - **Financial Eligibility:** Parental income below five Lacs per annum.

Undergraduate Assistantships

Select Semester/ Term-long assistantships/ stipends under Earn While you Learn (EWL) scheme, in lieu of Academic/Community support work is available.

- **Merit-cum-Means Assistantship:** For a few meritorious and economically challenged students based on the following criteria. The assistantship amount is equivalent to 50% of the tuition fee.

  Academic Eligibility:

  First Semester: JEE (Advanced) AIR up to 12000 or JEE (Main) Percentile of 97 and above.

  Second Semester Onwards: CGPA of 8.50 or above and no backlog.

  Financial Eligibility: Parental income below five Lacs per annum.
- **Type "A" Assistantships:** Admissible to a few (maximum four recipients, including all years) students facing economic hardships due to loss of bread-earner in the family during the Degree Period. Assistantship amount is equivalent to full tuition fee.

  Financial Eligibility: Parental Income (of the surviving parent/ guardian) 5.0 Lakh per Annum or below. Conditions for continuity of Assistantship: SGPA of 6.50 and above.

- **Type "B" Assistantships:** Admissible to address economic hardships of students (against work in the Departments, Projects, Library, etc.). Assistantship amount is up to 6000/-p.m.
- **Type "C" Assistantships:** Admissible to address economic hardships of (maximum six recipients, including all years) students (against work in hostels). Assistantship amount is equivalent to full or partial waivers of hostel fee.
- **Type "D" Assistantships:** Admissible to a few (maximum two recipients, including all years) students having a single parent who may be facing significant economic hardships due to no other bread-earner in the family during the Degree Period. Assistantship amount is equivalent to full tuition fee.
  Financial Eligibility: Parental Income (of the surviving parent/ guardian) 5.0 Lakh per Annum or below. Conditions for continuity of Assistantship: SGPA of 6.50 and above.
- **UG Teaching Assistantships:** Available to meritorious students against work in lab/theory courses. Assistantship amount is up to 4000/-p.m. No one would be allowed to voluntarily leave an assistantship of this kind when a semester / term is running.

Notes:

- No student shall be eligible for more than one Scholarship/ Assistantship.
- The maximum number of each type of Scholarship/Assistantship is fixed in given year as per budgetary provisions approved by the Governing Council. In the event of a greater number of eligible applicants, benchmarks of Income and/or Merit, as applicable, shall be used for scrutiny and consequent award of scholarship/assistantship, subject to attendance, if recorded, not being less than 85%.
- The Scholarship/Assistantship is not a matter of right. It is a privilege offered by the Institute to enhance internal competition and thereby academic excellence and support the needy. The Institute reserves the right to eliminate or increase/ decrease the quantum of scholarship/ assistantship and change the policy conditions.
- Scholarship/Assistantship policies are reviewed by the Institute from time to time.

Scholarships From External Agencies

Students of LNMIIT have availed different scholarships from various external agencies, as per their respective rules and provisions, as listed below.

National Scholarship	BSF
Mukhyamantri Medhavi Vidyarthi Yojna (MMVY), Govt. of M.P.	Ministry of Human Resource Development, Govt. of India
Mukhyamantri Yuva Swavlamban Yojana, Govt. of Gujarat	Tata Steel Millennium Scholarship
Pragati Scholarship for Girls	Indian Railway
National Talent Search Scheme	BSNL
Indian Air Force Benevolent Association	Student Benevolence Fund
Kendriya Sainik Board (Dept. of Ex-Servicemen Welfare), Ministry of Defence, Govt. of India	

Postgraduate Scholarships / Assistantships

M.Sc. (Mathematics/ Physics)

- A few assistantships (10 students in Mathematics and Physics each) are available, on the basis of merit/ selection as Teaching Assistantship.
- The assistantship amount at present is INR 5,000/- per month. The student's progress will be reviewed at the end of each semester and based on that the Department will recommend the top 10 students for financial support for the next semester. For the first semester, top 10 students will get assistance based on their rank in the admission process.
- Limited financial assistance for national and international travel to present research work in reputed (Tier - I/ Tier - II) refereed National/ International conferences as per the Institute Norms.

M.Tech. (CSE/ ECE) / M. S. (by Research) in CCE/ CSE/ ECE

- M. Tech. students with valid GATE score shall receive scholarship from AICTE as per rules.
- Financial support is available as a half-time teaching / research assistant (HTTA / HTRA) as per the rules of the institute. The HTTAship / HTRAship under this scheme will be equivalent to the full Tuition Fee, and thus making it zero effective tuition fee. This will be extended to the next three semesters, provided the candidate is able to maintain a minimum of 7 CGPA and do satisfactory work as assessed by the Department.
- Limited financial assistance for national and international travel to present research work in reputed (Tier - I / Tier - II) referred National / International conferences.

Doctoral Fellowships

- Students may avail financial assistantship from external funding agencies (such as UGC/CSIR/ NBHM/DST/DAE etc.) as well as from industries.
- Financial assistance is available from the Institute to the meritorious students in the form of teaching and research assistantship as per Institute norms, for those candidates who may not have any external fellowship.
- Partial financial support is available to the meritorious students to attend the workshops, short term courses and for paper presentation in refereed quality conferences as per Institute norms.
- Provisions are there for semester fee waiver on account of excellent publications, as per institute rules.
- For more details on fellowship, please visit the department specific page.

Note:

(a) Students are encouraged to avail financial assistantship from external funding agencies also (such as UGC/CSIR/NBHM/DST/DAE etc.) as well as from industries. They may have to be involved in the Department as per rules.

(b) All Ph.D. students must work as TAs/RAs if they are being funded by the Institute.

(c) PhD Students are advised to explore external financial assistance available in form of scholarships at the following links:

- SERB-CII Prime Minister's Fellowship Scheme for Doctoral Research
- National Scholarship Portal
- Scholarship Portal, Government of Rajasthan



Student Life @ LNMIIT

The students have an academically and culturally vibrant life in the institute. With an array of diverse facilities, students are offered an opportunity to pursue their creative talents and passions. The institute takes care to provide a conducive environment for fostering and nurturing holistic development of all students.

Student's Achievements

- Harshit Singhal, Ishita Mittal, Chirag Pareek, Harshit Bansal, Vivek Nunia, Kartikey Sharma, Abhijeet Kumar Jha and Yash Agarwal have won accolades from the Geoffrey Hinton Fellowship through their first Hackathon in 2021.
- Apoorv Srivastava, Mishal Singhai, Garv Tambi, Kinar Sharma, Utkarsh Maheswari and Vineet Jain are selected for Google Summer of Code (GSoC) 2021.
- Manas Vyas (Y18 UG) secured third position in the Elevator Pitch competition at the ASME E-Fest Asia Pacific 2020 held at the Marwadi University, Rajkot, Gujarat INDIA. He also secured the first and third positions respectively in the Elevator Pitch competitions at the ASME E-Fest Digital and ASME E-Fest Asia Pacific 2020. He was chosen to be a part of the highly reputable ASME Student Leadership Training Conference (SLTC), from October 31st - November 1st, 2020 at the ASME Student Leadership Training Conference 2020.
- Yashowardhan Agarwal (Y17 UG) selected as a mentor for Atal Tinkering Labs under the Atal Innovation mission of the Govt. of India.
- Nipun Jain, Jahanvi Budania and Somya Jain participated in industry India conclave quiz held nationally and got selected among the top 30 students in India under the mechanical division and secured a cash prize of ₹500 each.at IISF 2020.
- Nilay Harjani and Harsh Mundra submitted their project regarding analysis of the conventional designs of DTH Bits and suggesting modifications to increase the drilling efficiency. It was selected to be amongst the top 100 entries and was showcased in a virtual booth with other projects. at "Connect Next Conference" by La Foundation Dassault Systems.
- Divyansh Singh published a paper titled "Polyth-Net: Classification of Polythene Bags for Garbage Segregation Using Deep Learning" in IEEE International Conference on Sustainable Energy and Future Electric Transportation, Jan 21-23, 2021.
- Advik Singhania (Y20 batch) won the Best Hardware Hack (presented by Digi-Key) category in "Who Wants To Be A Hackionaire" hackathon. The event was organized virtually by Major League Hacking (MLH), a global community of student hackathons. (November 27-29, 2020).



- M Tech student, Deepa Tilwani, under mentorship of Dr. Pramod Gaur, won 2nd place in the LINZ hackathon at the Ars Electronica Festival 2020 organised virtually and sponsored by IEEE brain (September 12-13, 2020) with a prize money of 300 USD.
- Deepa Tilwani (PG Y19) and team, under mentorship of Dr. Pramod Gaur, secured 2nd position in Brain-Computer Interface Designers Hackathon. The BR4IN.IO Brain-Computer Interface Designers Hackathon in the field of BCI and Neurotechnology, organized by g.tec medical engineering GmbH Austria was sponsored by IEEEbrain, September 2020.
- Harsh Gupta (Y18) secured 2nd position along with prize money of 100 USD in WITH-IN SUBJECT category in BCI challenge 2020 organized in the conference IEEE WCCI 2020.
- Three teams of 15 students from the LNMIIT participated in three national level Smart India Hackathon which were organized at Hyderabad, Ahmedabad and Indore. Two of them were first prize winners in two software categories (Complex and Complicated Software categories) nationwide while the third team received the second prize in the country. These were organized by the Ministry of Human Resource Development of Government of India.
- Two students, Abhinav Shukla (17uec008) and Tarun Singh (17ucs169) received invitations from Harvard University, visited Cambridge and secured 1st and 2nd positions respectively in one of the Harvard Project for Asian and International Relations (HPAIR) events organized there.
- In addition to these, 10 students got selected for Google Summer of Code (GSoC) and two as GSoC Mentors, one girl student has been invited by Google at their Mountain View Headquarters. She is one of the only six Indian women students involved in computing at Google's Global Women in Computing Summit.
- Seven student start-ups are getting currently incubated on campus. (Earlier 11 students of the Institute had made it at the Student Startup Exposure Programme of Govt. of Rajasthan and were sent to Silicon Valley on an all-expenses paid trip by Govt. of Rajasthan).
- Aman Nigam and Kuljot Singh won the 2nd Prize in Best Innovative Idea in a programme for "Scheme and Support for Incubation" organized by MSME-Development Institute, Jaipur on 7th August, 2019
- Punit Agarwal (16UCS144), Yogesh Agarwal (17UCS188), Aniket Jain (17UCC012) won a prize of $500, offered by Lengroid at ETHINDIA 2.0 (Asia's biggest Ethereum hackathon) in Bengaluru during 2-4 August, 2019.
- Kanika Shrimali (16UCS087) was selected in the GHCI conference at Bengaluru from 6-8th November 2019.
- Maharshi Saurabh Mishra (16UME026) was honored with a Gold Honour (top 5% of all participants) in International Youth Math Challenge 2019.
- Parth Shandilya (16UCC066) was selected as a speaker at Europython 2019 at Basel Switzerland from 8-14 July, 2019.
- Akshat Sharma (16UCS023) & Tushar Bansal (16UCS200) was selected for 2019 Pycon, Thailand.
- Rahul Bhatia (16UCS149) was selected for a talk in the Python Conference at Malaysia from 24-25 August 2019.
- Manan Jethanandani (16UCS099) has been selected as a delegate of India to the 30th International Youth Forum (IYF) [http://eng.iyfkorea.org/] held at International Youth Centre, Seoul, South Korea (16 July to 23 July 2019).
- Abhishek Agrawal (17UCS008), Monali Thakur (16UCS108) & Vaibhav Gupta (17UCC064) were selected as delegates for The Harvard Project for Asian and International Relations. The conference was held in Nur-Sultan (Astana), Kazakhstan from 16 to 20 August 2019.
- Amit Sagtani (16UCS034) and Raj Vaibhav Dubey (17DEC004) got the First prizes in AI Development and Audience category and third prize in Cloud by IBM Category in the FOSSASIA Summit 2019 held at Lifelong Learning Institute Singapore on March 14 - March 17, 2019.
- Avish Jain (17UEC031), Utkarsh Kumar (16UEC116) and Ronit Vairagi (17UEC101) were selected in Developers Tutorial and Hackathon under the aegis of the India-EU Partnership Project on Collaboration for ICT Standardisation Union's Organization. The Hackathon was organized on 15-16 April, 2019.
- Codeathon, a competitive coding team event was conducted by Manipal University Jaipur, during their Techfest-Techideate on 13 March 2019. 54 teams from various colleges participated in this event. 1st, 2nd, 3rd, 4th and 6th positions were bagged by our team.
- Ashish Raj, Harsh Upadhyay, Rohit Samudralwar, Divya Baid, Pranjul Parnami and Shivan Gera won Smart India Hackathon 2019 (Software Edition) under the complicated category.
- A team of four students participated in 21st ISTE National Annual Students Convention on "Empowering India through Innovations" in Ahmedabad, Gujarat on 29 – 30 January 2019 and won the prizes.
- Madhav Khandelwal (16UME024) got selected as a delegate at Business Today's International Conference 2018 held in New York City, New York.

- Four students got selected in Google Summer of Code (GSoC) 2019, 10 students in GSoC 2018, and 15 students in GSoC 2017.
- Punit Agarwal (Y16) was selected and invited to attend ETH Singapore, a blockchain hackathon organized by ETH Global in Singapore from 7 Dec. 2018 to 9 Dec. 2018.
- Quizzinga emerged victorious in Tata Crucible Campus Quiz Jaipur Edition. Deepjyoti Kalita (Y16) and Aditya Chakraborty (Y18) won a cash prize of Rs. 75,000/-, and to add to the Institute's pride, they scored 64 which turned out to be the National Record for highest score by a team. Besides this, Kartik Shankavaram (Y16) and Sameer Chaturvedi (Y18) also made it to the finals.
- Harshit Khandelwal (Y16) won a grand prize in the CodeHeat context organized by FOSSASIA (Asia's Open Technology Organisation), award was given at FOSSASIA summit 2019 at Singapore in March 2019.
- Aakash Singh Tanwar and Pranjal (Y16) won 2nd prize in SMC Mechatronics Cup 2019, held on 30 March 2019 at SMC Corporation, Noida.
- Neelansh Sethi (Y16) was selected as one of the 300 delegates from all over the world for the very reputed HPAIR (The Harvard Project for Asian & International Relations) - Harvard College Conference which was at Harvard University, Cambridge, Massachusetts, USA from 15 February 2019 to 18 February 2019.
- A team of 6 Students has been declared winner in the Smart India Hackathon 2019, Software Edition, held at Hyderabad center.
- Team "Order the Chaos" bagged the second position in Smart India Hackathon 2019, software edition, held at Oriental University, Indore.
- Ishant Rajpurohit (Y14) has become Assistant Director and a Photographer in a film, which will be on Netflix, in the coming one year. The name of the film is working on is "Kaali and Saraswati".
- Bhavya Pareek (Y17) participated in the TEXAS INSTRUMENTS DrishTI (an online contest by TI University Programme) and got second place in the WEBENCH - contest on 29 Oct 2018 and third place in Digital Signal Processing (DSP) contest on 15 Dec 2018. He was awarded the winning prize consisting of Texas Instruments TIVA C series Launchpad Micro Controllers.
- Amit Sagtani (Y16) was invited to attend the summit and to deliver a presentation titled “GCompris - The Open Source Educational Suite”.
- The members of the Phoenix Club secured 2nd position in Robowar at AAROHAN, the Tech Fest of Poornima College.
- The team of Deepjyoti Kalita (Y16) and Aditya Chakraborty (Y18), secured second position in the Tata Crucible Campus Quiz 2019 - Hyderabad Zonals, held on 9 March 2019.
- Harsh Vardhan Gupta (Y15) Won 2nd prize in ASME E-Fest Old Guard Technical Presentation. He received $400 prize amount and travel support $1500 to visit ASME-IMECE conference held in Pittsburgh, USA, November 9-15, 2018.



Student Gymkhana

Student Gymkhana is an independent self-governing student body, elected by the students. The primary objectives of the Student Gymkhana are the following:

- To promote leadership skills, communication, and self-reliance amongst the students.
- To give representation to all the important academic/non-academic committees of the Institute to share students' viewpoints.
- To act as an interface between students and administration for reconciliation of differing opinions of the students and institute administration on important issues.
- To organize extracurricular/co-curricular activities, on a regular/periodic basis, in the institute campus.
- To promote participation in competitions organized by other well-known institutions of the country.
- To help wardens in the management of hostel affairs, including the dining halls.

The students' voice is reflected through democratically elected representatives, e.g., President, Vice President, General Secretaries, and Senators of Student Gymkhana of LNMIIT.

The institute provides its students with opportunities for exploring and enhancing their talents not only in the technology but also in extracurricular activities. The academic programs are accordingly backed up with appropriate co-curricular and extra-curricular inputs promoting culture, sports, self-governance and values.

The Student Gymkhana organizes various extra-curricular/co-curricular activities and inter-institutional festivals through following three councils and various other clubs of these councils:

- Science and Technology Council
- Cultural Council
- Sports Council

Science and Technology Council

The Council aims at stimulating the technical mindset of the students. It carries out its activities through the following clubs:

- **Cybros:** It provides budding computer enthusiasts a platform to learn as well as showcase their talents in various fields of computing.
- **Phoenix:** It motivates the students in the fields of electronics, robotics, and various other related technologies. The club has four sub-divisions, viz. Robotics, Electronics, Embedded Systems, and Quarks.
- **E-cell:** It inculcates entrepreneurial spirit among the students. The cell is a formal member of the National Entrepreneurship Network (NEN).
- **Innovation Club:** The main objective of this club is to initiate and nurture the culture of innovation, from the ideation stage to technical feasibility, market analysis, incubation, business development, and funding.
- **Astronomy Club:** The club functions to raise awareness and interest among the students about the awe-inspiring field of astronomy.

Plinth : It is an **annual technical festival** organized by the Science and Technology Council. It hosts workshops on current topics and some of the best competitions in the fields of Computing, Robotics, Astronomy, Management, Quizzing, Model United Nations (MUN), and Literature. Eminent speakers from all over India are invited to deliver motivational talks. It also has Start-up Internship Fair to provide internship opportunities to the students in reputed start-up companies.



Cultural Council

The Cultural Council manages a plethora of events, workshops, and club activities throughout the year. Its main objectives are to provide the students with an exposure and a platform to learn, enjoy, and showcase their talents in the fields of dance, drama, music, fashion, arts, social initiatives, health awareness programmes, cleanliness, and donation drives for the poor and the needy.

The following clubs/committees constitute the council and are responsible for its effective functioning: Dance Club, Drama Club, Music Club, Fashion Club, Nukkad Mandli, Art & Craft Club, Photography Club, and Movie Club. Every year LNMIIT Cultural Council organizes one of the biggest inter-institutional Techno-Cultural-Management festival called Vivacity. Moreover, Literary Committee facilitates the exchange of views and ideas on current issues. The committee organizes debates, elocution, extempore, essay competitions, etc. It publishes the LNMIIT Gazette, and the annual magazine Nth Degree, which covers the accomplishment of the students and showcases their ingenious literary talent.

Activities of Cultural Council :

1. **Rubaroo :** Fresher's Night
2. **Dance Premier League:** Inter-house dance competition
3. **Gusto-Inter:** house drama and fashion show competition
4. **Melange:** Inter-house music competition and War of DJ's
5. **Nostalgia:** Farewell function of graduating students.

Vivacity: An **annual Techno-Cultural-Management festival** organized by the Cultural Council. Competitions encompassing the technical, cultural, and managerial fields, celebrity performance, guest lectures and workshops define the basic framework of this festival. Vivacity is not just a platform to promote talent among the youth but it also aims to spread a very strong social message by means of various initiatives. It facilitates the students to showcase their organizational talent, to gain from cross-cultural learning experiences, to promote entrepreneurship, to provide a forum for sharing and exchange of knowledge and create a positive impact on society. Students from all over the country participate in this festival.

The students of LNMIIT participate in co-and extra-curricular activities at various institutes including IITs and NITs and deserving students receive partial financial assistance.

Sports Council

The objective of this council is to promote sports activities among the students and to organize sports events and sports festivals. The institute provides sports equipment and facilities in sports like badminton, football, cricket, athletics, squash, table tennis, lawn tennis, volleyball, basketball, carom, chess, etc. Sports Council hosts events like LNMIIT Premier League, LNMIIT Football League, LNMIIT Volleyball League, Inter-house Cricket & Badminton tournaments, and friendly matches with other nearby institutions throughout the year. Every year LNMIIT Sports Council organizes one of the biggest inter-institutional sports festivals called Desportivos. The council encourages the students to perform at the state and national level competitions. All the sports activities are supervised by a Physical Training Instructor (PTI). Moreover, LNMIIT arranges professional coaches for various sports.

Activities of sports council:

1. Regular matches with other institutes/Universities: To maintain good relations and sports spirits, the students play many matches in various fields of sports with other colleges and universities of Jaipur.
2. Fitness and Yoga courses on offer: With an objective to make our students physically and mentally fit, the Academic Council (AC) approved two-credit courses on 'Health and Fitness' and 'Yoga'. Every semester, these courses get overwhelming response from students. These courses are unique to our institute.
3. Organizes Yoga-day celebration, Run for Unity and Sports day were successfully last year.
4. Organizes Inter-year tournaments and LNMIIT leagues and inter-hostel tournaments.

Desportivos: An **annual sports festival** of LNMIIT organized by the Sports Council. This is the most prestigious sports festival in Rajasthan. It attracts a wide spectrum of students from all over the country. The festival incorporates a wide range of outdoor as well as indoor sports activities like cricket, badminton, volleyball, basketball, football, table tennis, chess, carom, etc.

Other Student Clubs

Sankalp Club: The club is committed to the pursuit of social welfare and self-transformation. The club works towards serving the poor and the needy to improve their quality of life and education.

Nirog Club: The club enlightens the students about maintaining hygiene and cleanliness inside as well as outside the campus and creates awareness regarding healthy lifestyles, anti-tobacco, and anti-smoking drives. In the recent past, a number of blood-donation awareness campaigns, cleanliness and donation drives have been coordinated by this club.

Counselling and Guidance Cell

The Institute realizes that the first-year undergraduate students leave the safe haven of their home, perhaps for the first time in their lives, to pursue their academic dreams. They are enthusiastic, curious, and at the same time nervous and apprehensive about their new surroundings. The students also need to understand the new culture and various requirements of the Institute. The Counselling & Guidance Cell of the Institute provides a comfortable environment as soon as the first-year students enter the Institute. The Counselling Cell is an open, receptive, and safe forum to address the concerns of the students. The main aim is to help the incoming students to settle down in the Institute. It continues to provide guidance to the students to ease their transition from a school environment to the more demanding university standards. To address the individual concerns of the fresh students, the entire batch is divided into small groups of 15 students each. Each group is assigned to one or two faculty members and a senior student. These groups meet periodically to identify the problems of academic and non-academic nature. All efforts are made to solve the identified problems, to the extent possible. The healthy bond thus created between the students and the faculty continues throughout their stay at the institute, and even later in life. The Counselling Cell conducts several events for the first-year students like Orientation Programme, Student-Faculty Mentorship programme and guest lectures. Under Student-Faculty Mentorship programme, small groups of new students are formed, each with a faculty lead mentor and two student members. The teams meet formally and informally periodically during the entire academic session to provide guidance and resolve any concerns that the new students might have in their first year of the programme.

Professional Societies

IEEE Student Chapter

IEEE has become a real communicator and facilitator amongst all the scientific and technical communities which are striving for the betterment of this world. As an information technology research institute, LNMIIT plays an important counterpart role in this process. LNMIIT has always been a keen activity organizer in areas related to technology and professional growth of an individual.

Computer Society of India Student Chapter

Computer Society of India (CSI) offers a range of technical and networking opportunities through workshops, seminars, courses and participation by major industries, sharing best practices and exchange of ideas and information. CSI holds annual technical fests with programming contests, quizzes, interaction with IT industry luminaries, career counseling and much more. Various Workshops conducted this academic year includes game development and scientific uses of python. Also, semester long projects have been allotted to about 50 teams on various fields such as Android/ Web development, Machine learning and Cryptography. Mentors have been allotted to each team for guided learning. CSI LNMIIT chapter has been awarded with the prestigious "Best Accredited Student Branch Award" as decided by CSI Awards Committee -2017 chaired by Dr. Anirban Basu at CSI Annual Convention.

American Society of Mechanical Engineers

ASME is a not-for-profit membership organization that enables collaboration, knowledge sharing, career enrichment, and skills development across all engineering disciplines, toward a goal of helping the global engineering community develop solutions to benefit lives and livelihoods. ASME serves this wide-ranging technical community through quality programs in continuing education, training and professional development, codes and standards, research, conferences and publications, government relations and other forms of outreach.

Association for Computing Machinery (ACM) Student Chapter

The ACM is an umbrella organization for academic and scholarly interests in computer science. The LNMIIT ACM Student Chapter was officially chartered by ACM Chapters Program Coordinator on November 13, 2017. Our chapter was started with a prime focus on implementing a firm professional culture among the students apart from the regular academics. We have a talented and diligent team working to deliver the best of ACM to the institute.

Convocation 2020

The 14th Convocation of our institute was held on 21 November 2020 (Virtual Mode). The chief guest was Mr. C P Gurnani who has been the CEO and MD of Tech Mahindra, one of the leading digital IT solution providers of India. With extensive experience in international business development, start-ups and turnarounds, joint ventures, mergers, and acquisitions, Mr. Gurnani has spearheaded Tech Mahindra's transformational journey. A chemical engineering graduate from the National Institute of Technology, Rourkela, Mr. Gurnani has also served as Chairman of NASSCOM for the year 2016-2017. In a career spanning over 39 years, He has held several leading positions with HP, Perot Systems (India) Ltd, and HCL Corporation. He has been the recipient of numerous awards, including the Best CEO Award in 2019, Corporate Leader of the Year Award in 2018, and Asia 'One Global Indian of the Year – Technology' in 2016. For his entrepreneurial style of management, Mr. Gurnani has been listed in the top 100 global CEOs in the Wall Street Journal CEO Council 2016. He also received the Forbes India Leadership Award as the "Best CEO of the Year" in 2015 and the 'Best CEO of the year' in Business Today in 2014. He promotes child education and has also co-founded 'Titliyan', an NGO located in Noida that shelters and educates more than 140 underprivileged children.

In this convocation, a total number of 514 students graduated; out of which 495 received B.Tech., 18 students were awarded M.Sc. degrees and one student was awarded Ph.D. degree. Chairman's Gold Medal was awarded to Ms. Pankhuri Vanjani (16UEC069) of Electronics and Communication Engineering. The Director's Gold Medal for UG programme was awarded to Mr. Vishesh Sharma (16UCS215) of Computer Science and Engineering. The best B.Tech. project Award was earned by a group of students, namely, Mr. Tirth Shah (16UCS199), Mr. Vibhor Agarwal (16UCS209) and Mr. Swarnim (16UEC111) for the B. Tech. Project on "Pro-Active Video Surveillance System for Female Security in Isolated Areas.".





Looking Ahead

The LNMIIT aspires to create a niche for itself in both Indian and global arenas by adopting a multi-disciplinary approach with a focus on contemporary relevant as well as emerging areas of research, development, teaching-learning, entrepreneurship, outreach and collaboration while maintaining an eco-system that would ensure work-life balance of its people (faculty and staff) and enable well-rounded personality development of its students.

This shall be achieved with the help of a sustainable strategic plan involving long-term, medium-term and short-term milestones.





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