IILM UNIVERSITY

ENGINEERING

OUR VISION

Our vision is to be a leading University that inspires students to become responsible global citizens and leaders in their chosen fields and the world, through an innovative, interdisciplinary, and inclusive approach to learning.

OUR MISSION

Our mission is to provide students with an education that is intellectually stimulating and practically relevant. We aim to foster a community of learners who are innovative, interdisciplinary, and socially responsible. We offer a range of programmes that are designed to prepare students for purposeful work and to inspire them to make a positive difference in the world. We are dedicated to empowering students with the knowledge, skills, and experiences they need to achieve their full potential and become responsible global citizens and leaders.

THE IILM ADVANTAGES

- Over 30 years of Academic Excellence
- Global Network of over 16,000 Alumni
- International Collaborations
- Niche Career Pathways
- Job opportunities with over 400 Companies
- Centrally located green Campuses
- Merit-based Scholarships
- Renowned Faculty from Academia and Industry
- Vibrant Campus Life
- Internationally Benchmarked Curriculum

CAMPUS RECRUITERS

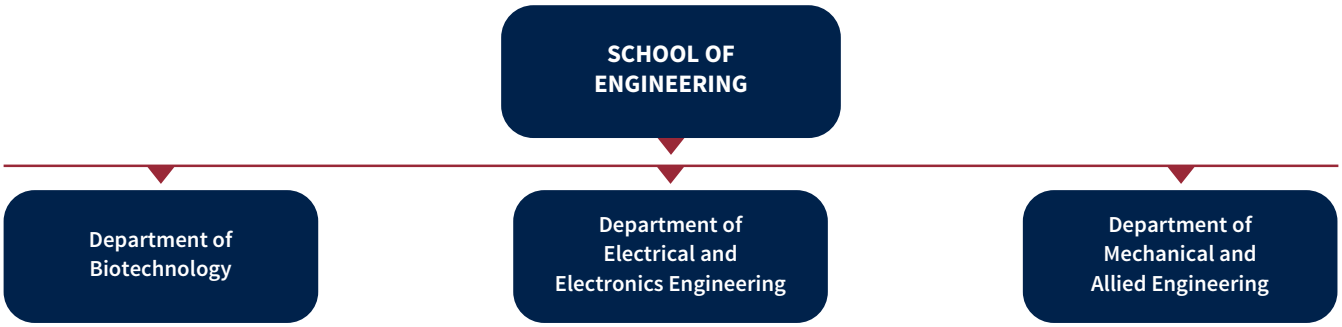
IILM University students benefit from access to top-tier recruiters, a testament to the institution's commitment to excellence and its strong industry connections that pave the way for outstanding career prospects upon graduation.

Biocon	Bikano	LifeCell	Mankind Serving Life	Jubilant FoodWorks	Nestlé	Panacea Biotec	Coca-Cola
cordlife	Max Healthcare	pepsi	Yatharth	Jakson	IBM	HCL	Ericsson
Adobe	Xylo	wipro	UAML	GoMechanic	Mobec	PlanetSpark	Xeroframe

ACADEMIC & INDUSTRIAL COLLABORATIONS

SCHOOL OF ENGINEERING

The School of Engineering at IILM University is a leading Institution in North India. Our programmes aim to produce graduates with personal, academic and professional maturity to thrive in today's competitive global job market and to create innovative, sustainable solutions to complex engineering problems. We are in a digital age and to compete with evolving skills the school offers a variety of specialisations in emerging technologies.



PROGRAMMES LIST

UNDERGRADUATE PROGRAMMES

Department of Biotechnology

- ☐ B Tech Biotechnology
- ☐ B Tech Bioinformatics
- ☐ B Tech Food Technology

Minor specialisations offered under these programmes are as follows:

- ▹ Computational Biology
- ▹ Industrial Biotechnology
- ▹ Food Process Engineering
- ▹ AI & ML
- ▹ Medical Biotechnology
- ▹ Dairy Science and Technology
- ▹ Food Packaging
- ▹ Entrepreneurship

Department of Electrical and Electronics Engineering

- ☐ B Tech in Electronics and Communication Engineering
- ☐ B Tech in Robotics and Artificial Intelligence
- ☐ B Tech in Semiconductor Technology

Minor specializations offered under these programmes are as follows:

- ▹ Artificial Intelligence and Machine Learning (AIML)
- ▹ Very Large Scale Integration (VLSI)
- ▹ Electric Vehicle Technology
- ▹ Drone Technology
- ▹ Internet of Things (IoT)
- ▹ Entrepreneurship

Department of Mechanical and Allied Engineering

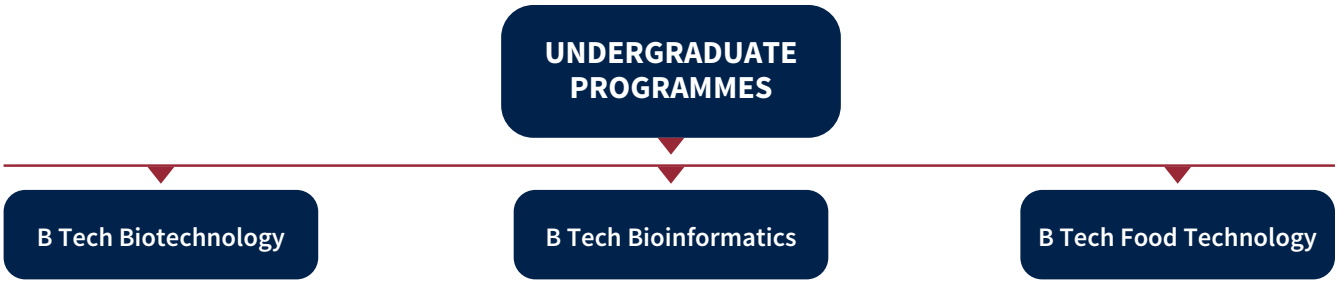
- B Tech in Mechanical Engineering
  - Drone Technology
  - EV Technology
  - Robotics and Artificial Intelligence
- B Tech in Civil and Sustainable Infrastructure Engineering

POSTGRADUATE PROGRAMMES

- M Tech in Bioinformatics
- M Tech in Biotechnology
- M Tech in Mechanical Engineering
- M Tech in Semiconductor Technology

DEPARTMENT OF BIOTECHNOLOGY

Department of Biotechnology at IILM University, Greater Noida was established in the year 2002. Department has a niche for being progressive and distinctively unique in the field of research and education. Department offers various undergraduate, postgraduate and doctoral programs. We have seven well-equipped labs with state-of-the-art research facilities in various domains. We focus on learning through practice and have been working to provide practical knowledge through our research laboratories.



B Tech Biotechnology

B. Tech. Biotechnology is a four-year undergraduate program. Biotechnology is the branch of science which involves amalgamation of biotic systems with Technology in order to improve production and create value addition to industrially significant products such as pharmaceuticals, crops, food and dairy etc. Biotechnology offers jobs to the undergraduate students in multifarious domains.

B Tech Bioinformatics

Bachelor of Technology (B.Tech.) in Bioinformatics is an undergraduate program designed to provide students with a robust foundation providing in-depth overview of the convergence of computational methods and biological sciences. B.Tech. in Bioinformatics with a specialization in AI & ML is a comprehensive four-year program which is designed to merge the principles of Bioinformatics with cutting-edge technologies in AI and ML. This program provides students with a robust grounding in Biology, Computational Biology, and Data Science, positioning them to tackle the multifaceted challenges at the crossroads of these disciplines. In this swiftly advancing field, applications span across healthcare, agriculture, and environmental science. The demand for skilled bioinformaticians is on the rise, and the field is anticipated to witness sustained growth in the foreseeable future.

B Tech Food Technology

B. Tech Food Technology is a comprehensive four-year program that encompasses various aspects of food science and technology, focusing on the processing, preservation, and enhancement of food products. Students in this course explore the principles of food chemistry, microbiology, and engineering to understand the composition, properties, and behaviour of food materials.

MINOR SPECIALISATIONS

Computational Biology

This field focuses on solving complex biological and medical challenges using computational and mathematical methods. It is ideal for those with an interest in biological sciences, vaccine technology, computer science, machine learning, artificial intelligence, and big data analysis.

Industrial Biotechnology

Industrial biotechnology offers career prospects in chemicals, petroleum, energy, waste management, and pharmaceuticals. Career options include biochemical engineer, quality analyst, scientist, project manager, and R&D executive.

Artificial Intelligence and Machine Learning (AI & ML)

AI and ML are crucial in bioinformatics, where AI simulates complex biological processes and ML analyses large biological datasets. These skills are valuable in advancing medical research and personalised healthcare.

Medical Biotechnology

This interdisciplinary field applies biological techniques to improve health and treat diseases, encompassing molecular biology, genetic engineering, and cellular biology. Career opportunities include biomedical scientist, clinical researcher, quality control analyst, and R&D executive.

Food Packaging

Food packaging ensures the protection of food products from environmental, chemical, and physical challenges. This specialisation explores the latest technologies and advancements in the packaging industry.

Dairy Science and Technology

This area focuses on extending the shelf life of dairy products such as pasteurised milk, cheese, fermented foods, butter, milk powders, and protein products through physical, enzymatic, and microbial processes.

Food Process Engineering

This specialisation covers unit operations involved in converting raw agricultural products into shelf-stable, nutritious, and safe foods. Students gain skills in food processing, process design, and statistical quality control.

Entrepreneurship

This course bridges biotechnology and business, offering insights into commercialization, funding, and market analysis. It is ideal for students with a passion for biotech innovation, equipping them to create successful ventures.

POSTGRADUATE PROGRAMMES

- M Tech Biotechnology
- M Tech Bioinformatics

M Tech Biotechnology

This programme equips students with advanced biotechnological skills in areas such as drug delivery, genomics, vaccine technology, and structural biology. Graduates can work as associate scientists, research associates, scientific officers, pharmacovigilance officers, quality control officers, and assistant engineers.

M Tech Bioinformatics

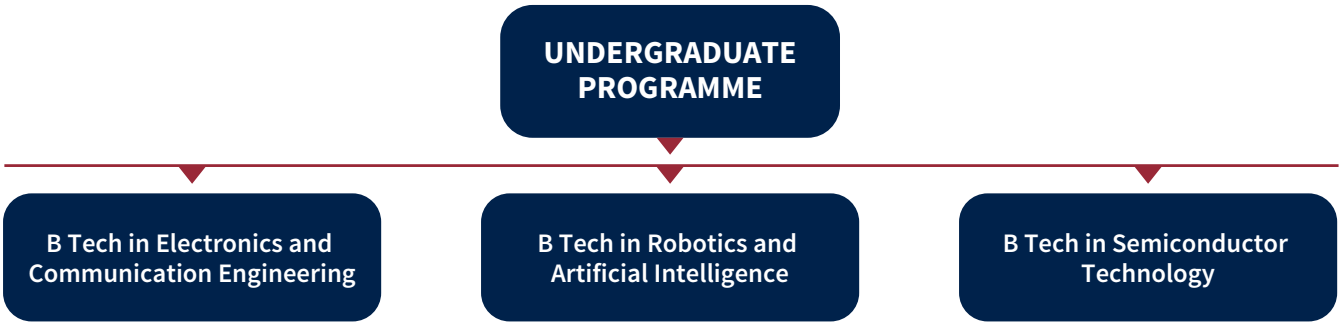
This programme integrates biological sciences with information technology, computer technology, machine learning, and healthcare. Graduates can pursue roles like senior research associate, quality control executive, computational biologist, pharmacogenomics scientist, patent officer, genetic counsellor, and product development manager.

BIOTECHNOLOGY LAB




DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

The Department of Electrical & Electronics Engineering at IILM University has been a beacon of academic excellence since its establishment in 2002. It offers B Tech, M Tech & Doctoral programmes in Electronics & Communication Engineering with various specializations in niche areas of technology. The department's philosophy centres on hands-on learning, supported by state-of-the-art laboratories in areas like VLSI, Digital Systems, Electronics Engineering, Sensors and Actuators, and Robotics.



B Tech in Electronics & Communication Engineering (ECE)

The Electronics & Communication Engineering, is a four-year undergraduate programme designed with strong industry integration. This core engineering discipline involves conceptualization, design, and management of electronic circuits and systems. Students will learn about analogue and digital systems, semiconductors, embedded systems, programming languages, communication systems, Drone Technology and IoT. Graduates of ECE can find job opportunities in sectors such as telecommunications, consumer electronics, healthcare equipment manufacturing, Drones, mobile and satellite communication, and IT.

B Tech in Robotics & Artificial Intelligence (AI)

This exciting programme combines computer science, electronics, and mechanical engineering to provide a strong foundation in programming, machine learning, mechatronics, and control systems. Students gain hands-on experience designing and building robotic prototypes. Graduates are well-prepared for careers in industries such as automation, healthcare, aerospace, warehousing, and automotive.

B Tech in Semiconductor Technology

This specialized programme focuses on the principles and applications of semiconductor materials and devices. Students gain expertise in areas such as semiconductor physics, fabrication processes, device design, nanomaterials, and VLSI technology. Graduates can pursue careers in semiconductor manufacturing, nanotechnology, and microelectronics, contributing to innovations in chip design, renewable energy, and quantum technologies

SPECIALISATIONS

Electric Vehicle Technology (EVT)

This programme addresses the growing demand for electric vehicles (EVs) by teaching students the principles of EV design, development, and application, including battery technologies, fuel cells, and hybrid electric systems.

Drone Technology (DT)

Students learn about the design and operation of unmanned aerial vehicles (UAVs), including aerodynamics, flight dynamics, software programming, sensors, and autonomous systems. Career opportunities include fields such as mapping, surveying, environmental management, real estate, journalism, agriculture, and defense.

Internet of Things (IoT)

This specialization focuses on the integration of smart devices and sensors within robotic systems. Students learn IoT protocols, embedded systems, wireless communication, and data analytics, preparing them for careers in industrial automation, predictive maintenance, and healthcare.

Very Large Scale Integration (VLSI)

This specialisation focuses on the design and analysis of tiny yet powerful electronic chips that are integral to today's compact gadgets and smart technologies. VLSI is in high demand, particularly in the smartphone and computing components industry. Graduates can pursue roles in circuit design, chip design, and product development.

Artificial Intelligence and Machine Learning (AI & ML)

This interdisciplinary specialisation equips students to build smart machines and applications. It blends the core principles of ECE with AI and ML, enabling students to design systems that analyse data and make intelligent decisions with minimal human intervention. Topics include deep learning, robotics, and data analytics. Career opportunities abound in areas such as self-driving cars, healthcare, and other smart technology industries

POSTGRADUATE PROGRAMME → M Tech in Semiconductor Technology

M Tech in Semiconductor Technology

This postgraduate programme develops advanced skills in designing and developing electronic systems. Graduates can work in fields such as VLSI design, embedded systems, semiconductor manufacturing, and computer-aided design. With the growing importance of semiconductor technology in industries like integrated circuits (ICs) and energy-efficient systems, this programme offers excellent career prospects.

ELECTRICAL & ELECTRONICS ENGINEERING LAB

DEPARTMENT OF MECHANICAL & ALLIED ENGINEERING

UNDERGRADUATE PROGRAMME

- B Tech in Mechanical Engineering
- B Tech in Civil and Sustainable Infrastructure

B Tech in Mechanical Engineering

This programme provides students with access to modern facilities and a curriculum regularly updated to include industry-oriented and science-based modules. Key areas of study include fluid mechanics, thermal sciences, materials, design and simulation software, computer programming, machine learning, 3D printing, artificial intelligence, and mechatronic systems. Graduates can pursue careers in sectors such as automotive, product design and manufacturing, healthcare, robotics, software, and defence industries.

SPECIALISATIONS

Electric Vehicle Technology

This specialisation addresses the growing demand for EVs by providing students with a comprehensive understanding of electric vehicle technologies, including the design, development, and application of batteries, fuel cells, and hybrid systems.

Drone Technology

Students learn about the design and operation of unmanned aerial vehicles, including aerodynamics, flight dynamics, software programming, sensors, and propulsion systems. This prepares them for careers in mapping, surveying, environmental management, agriculture, videography, journalism, search and rescue, and defence.

Robotics & Artificial Intelligence (R & AI)

This multidisciplinary specialisation covers topics such as machine vision, machine learning, edge computing, IoT, cobots, and Industry 4.0. Students will develop skills in designing and testing AI algorithms for robotic systems, preparing them for careers in automation, healthcare, aerospace, software, defence, and automotive industries.

Robotics & Artificial Intelligence (R & AI)

This multidisciplinary specialisation covers topics such as machine vision, machine learning, edge computing, IoT, cobots, and Industry 4.0. Students will develop skills in designing and testing AI algorithms for robotic systems, preparing them for careers in automation, healthcare, aerospace, software, defence, and automotive industries.

B Tech in Civil & Sustainable Infrastructure Engineering

This programme focuses on equipping students with knowledge and skills to design, develop, and manage sustainable infrastructure projects. The curriculum incorporates modern engineering practices, including structural analysis, environmental engineering, sustainable construction techniques, and smart city concepts. Students will also gain exposure to the use of advanced tools like GIS, BIM (Building Information Modelling), and green building technologies.

POSTGRADUATE PROGRAMME

- M Tech in Mechanical Engineering

M Tech in Mechanical Engineering

This two-year postgraduate programme offers advanced training in fields such as material science, thermal sciences and renewable energy, electric vehicle technology, computer-aided design, additive manufacturing, and robotics. With a focus on research, students undertake detailed projects and dissertations. Career opportunities for graduates include roles in the automotive industry, renewable energy sector, product design and development, and data analytics.

MECHANICAL & ALLIED ENGINEERING LAB

DOCTORAL PROGRAMME

IILM University offers a robust PhD programme in Engineering, catering to advanced research enthusiasts in the fields of:

- Biotechnology
- Bioinformatics
- Electronics Engineering
- Mechanical Engineering

CLUBS & SOCIETIES

- Participate in vibrant student-led technical clubs like Robotics, AI, and IoT.
- Enhance creativity and teamwork through design, coding, and innovation challenges.

Qasid

PIXIVIL CLUB
THE PHOTOGRAPHY CLUB

OORMI
Dance society

VIDHI
SOCIETY FOR LEGAL RESEARCH

NextGenX AI
IILM UNIVERSITY

CONSTITUTIONAL CLUB

IBIOC

CONNECTORS

IEC

Eudaimonia

ECOFIN
FINANCE & ECONOMICS CLUB

CINELIT

CODE WARRIOR CLUB
CWC

Books & Moms Club

EARTH RISE

TECH SPARK

Sports Club

AARoH

CSDAC

Silhouette
The Journalism Club

MARKBUZZ
We'll Grab Your Attention

EXPERIENTIAL LEARNING

- ☐ Access advanced labs for AI, VLSI, Biotechnology, and Food Technology.
- ☐ Engage in hands-on learning with cutting-edge instruments and technologies.

- ☐ Gain industry-ready skills through technical workshops and career sessions.
- ☐ Enhance problem-solving abilities with real-world projects and mentorship.

- ☐ Collaborate with industry leaders like L&T EduTech and Biocon for practical exposure.
- ☐ Benefit from internships and live projects to bridge the gap between theory and practice.

- ☐ Work on interdisciplinary projects funded by DST, AICTE, and ICMR.
- ☐ Develop innovative solutions to real-world problems with expert faculty guidance.

Your Journey Begins Here

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Scan to explore our website, take a virtual tour, and apply online.

www.iilm.edu

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