



CENTRE FOR CAREER DEVELOPMENT
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

MECHANICAL ENGINEERING

Batch of 2027 | Department Placement Brochure

B.TECH · M.TECH · PHD

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About IIT Guwahati

Established in 1994, Indian Institute of Technology Guwahati is the sixth member of the IIT fraternity and one of India's premier institutions for higher education, research, and innovation.

Within a short span, the Institute has emerged as a global centre of excellence in science, technology, management, and design.

The picturesque campus spans 285 hectares on the northern bank of the Brahmaputra River, approximately 20 km from the heart of Guwahati city.

Surrounded by scenic hills and open spaces, it offers a perfect environment for learning, research, and holistic development.

IIT Guwahati offers a wide array of academic programmes including B.Tech., B.Des., BSc (Hons), M.Tech., M.Des., M.Sc., MBA, M.A., MS(R) and Ph.D.

across 11 departments, 9 interdisciplinary centres, and 5 schools, covering major disciplines in engineering, science, humanities, healthcare, and management.

The Institute has built world-class infrastructure and

houses state-of-the-art laboratories and National Centres of Research that support cutting-edge research.

Students are encouraged to take up interdisciplinary coursework, pursue minor degrees, and choose from a rich variety of open and interdepartmental electives.

IIT Guwahati has signed MoUs with top international universities, facilitating semester exchanges and summer internships, thereby broadening students' global exposure.

Our students regularly intern at leading global firms and research institutions, gaining invaluable real-world experience.

Ranked among the top 100 world universities under 50 years by Times Higher Education (THE), IIT Guwahati continues to excel globally.

The Institute was ranked 42nd globally in 'Research Citations per Faculty' and 344th overall in QS World University Rankings.



Director's Message

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Indian Institute of Technology Guwahati was established in 1994 by an Act of Parliament. The academic programme started with 65 students in three undergraduate programmes in 1995. The institute is growing steadily and the total number of students in eleven departments, nine academic centres and five schools in numerous undergraduate and postgraduate programmes is now around 8600. The institute has excellent infrastructure for the all round development of its students. The institute has full-fledged Technology Incubation Centre and Research Park to promote entrepreneurship activities.

IIT Guwahati continues to maintain its superior position in various International and National Rankings. IIT Guwahati secured the 8th position among the top engineering institutions in India in the NIRF 2025 Rankings, released by the Ministry of Education.

Additionally, IIT Guwahati has been ranked as the 11th best university in the country. IIT Guwahati has been ranked 2nd in the 'Swachhata Ranking' conducted by the Govt. of India. IIT Guwahati has been ranked as the topranked university in 2019 for IT developers by HackerRank in the Asia-Pacific region. IIT Guwahati gained 42 position globally in the 'Research Citations per Faculty' category and overall 344 rank in the QS World University Rankings 2025 released recently. Also, IIT Guwahati ranks 6th globally in Sustainable Development Goal 7 (Affordable and clean energy) of the Times Higher Education Impact Rankings 2023.

With Best Wishes,

Prof. Devendra Jalihal

Director, IIT Guwahati

The institute has a very good central library, which provides library and information services to support teaching, learning, and research activities by creating state-of-the-art facilities. It is housed on a four-storey building having a floor area of about 7500 sq. meter. Inhouse services of the library are fully computerised and wi-fi facility is provided within the library building for connecting to the internet and accessing the Institute's electronic resources. The sports facilities of the institute are of international standard. The students graduating from this institute are motivated, bright, and very eager to perform after they graduate.

IIT Guwahati has extensive facilities for cultural and creative activities too. For example, the Technical Board promotes technology, creativity and innovation. IIT Guwahati helps in shaping up bright minds with proper perspectives. IIT Guwahati hosts two supercomputing facilities PARAM-Kamrupa (838 TF) and PARAM-ISHAN (250TF) to carry out research activities in various scientific domains including forecasting of weather and climate, bioinformatics, computational chemistry, molecular dynamics, artificial intelligence (AI) and machine learning and especially data science.

Because of the excellent performance of the students of IIT Guwahati in all the fields of study and research, guided by the dynamic faculty members and with the full support of the non-teaching employees, IIT Guwahati could feature in the coveted list of young universities (under 50 years of age) of the world selected by the Times Higher Education (THE) magazine. IIT Guwahati is the only Indian entry to this elite list. I cordially invite all prospective employers to visit IIT Guwahati and to participate in the on-campus placement and internship processes.

About the Department

The department of mechanical engineering, being one of the largest and oldest departments of the institute, caters to its students with class tutorial and state-of-the-art laboratories. The department is continuously striving to achieve excellence in education, academic and industry oriented research as well as consultancy work with service to the society.

We aim to provide our students with a perfect blend of intellectual and practical experiences, that helps them to serve our society and address a variety of needs. At the end of our program, students are prepared for entry-level work as a mechanical engineer as well as for the post-graduate study in mechanical engineering or in another discipline, where a fundamental engineering background constitutes a desirable foundation. Academic course work and projects are designed to endow students with the ability to apply knowledge of science, mathematics, and engineering, and the capability to work effectively in multidisciplinary teams, providing leadership and technical expertise.

With a solid grounding in the principles and practice of mechanical engineering, our undergraduates are ready to engage in ethical approaches to engineering, with concern for society and the environment. Our program at the postgraduate level aligns academic course work with research, to prepare scholars in specialized areas within the field of mechanical engineering. Research topics focus on industrial needs.

The department aptly makes use of the technical facility of the workshop in teaching and in setting up of in-house experimental set-ups. Apart from carrying out practical classes as per academic curriculum, workshop caters to needs of different departments of the Institute in terms of executing works of their B.Tech., M.Tech. and Ph.D. students as well as other related research/consultancy works. The department also welcomes students from other departments of the institute as a gesture of support to their time-to-time academic and research needs. Both undergraduates and postgraduates are well placed in leading industries as well as in the higher research level institutions of international recognition. Our website will take you to the tour of different research facilities, academic programmes offered and the faculty/staff who are contributing to the department to make it a success.



Head of Department's Message



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“Welcome to
**Mechanical
Department**, where
exceptional talents
meet endless
opportunities for
growth and success.”

With Best Wishes,

Prof. Shyamanta M. Hazarika

Head of Department · Mechanical Engineering

Formed in 1995, the Mechanical Engineering department is one of the largest and oldest at the institute. By the 28th convocation, 1393 B.Tech, 1383 M.Tech, and 247 Ph.D. students had graduated. Since its inception, the department has been globally recognized for excellence in research and academics. It has strengthened research, introduced new M.Tech programs, and contributed to society through consultancy and industrial projects. The department focuses on developing advanced computational and experimental facilities for teaching and research.

The department also holds a QS world university ranking of 334 in the 2025 rankings. It continues to grow by recruiting top faculty, updating curricula to meet industry and research needs, maintaining state-of-the-art labs, and conducting QIP, TEQIP, and training programs for students and external participants. Additionally, it fosters cutting-edge research and introduces interdisciplinary courses to prepare students for the industry.

Programmes Offered

Bachelor of Technology (B.Tech)

ADMISSION VIA JEE ADVANCED

The B.Tech in Mechanical Engineering at IIT Guwahati, established in 1995, prepares graduates with strong fundamentals, multidisciplinary skills, and global perspectives. The program blends core engineering with SA and HSS courses, offering electives from the 6th semester for flexibility in advanced research areas. Students gain expertise in design, simulation, analysis, manufacturing, and testing, while also developing leadership, management, and communication skills. Graduates excel across industries, academia, and R&D, equipped for innovation, responsibility, and professional growth.

Undergraduate | Mechanical Department | IITG

Master of Technology (M.Tech)

ADMISSION VIA GATE

Students who already have a bachelor's degree and want to specialize in a field related to Mechanical Engineering may enroll in the two-year M.Tech. programme. In the final phase of M.Tech. programme, students complete advanced compulsory courses, electives, and a fourteen-month M.Tech. Project. M.Tech. project is usually research and development focused and is to be worked on an individual basis. M.Tech. curriculum is structured to expose students to real-world issues and their solutions.

The Department offers five M.Tech. specializations: Aerodynamics and Propulsion, Computational Mechanics, Fluids and Thermal Engineering, Machine Design, and Manufacturing Science and Engineering.

Master of Technology | Mechanical Department | IITG

Doctor of Philosophy (PhD)

ADMISSION VIA WRITTEN TEST & INTERVIEW

IIT Guwahati's Department of Mechanical Engineering offers a premier Ph.D. programme designed for outstanding graduates with strong academic and research potential. With cutting-edge facilities and faculty expertise, the programme covers advanced areas including Machine Design, Fluids and Thermal Engineering, Manufacturing Science, Aerodynamics and Propulsion, and Computational Mechanics. Students pursue rigorous coursework, innovative research, and global collaborations while receiving assistantships. The programme nurtures future-ready researchers, academicians, and industry leaders, making our Ph.D. graduates highly valued in top institutions, R&D organizations, and global industries.

Ph.D | Mechanical Department | IITG

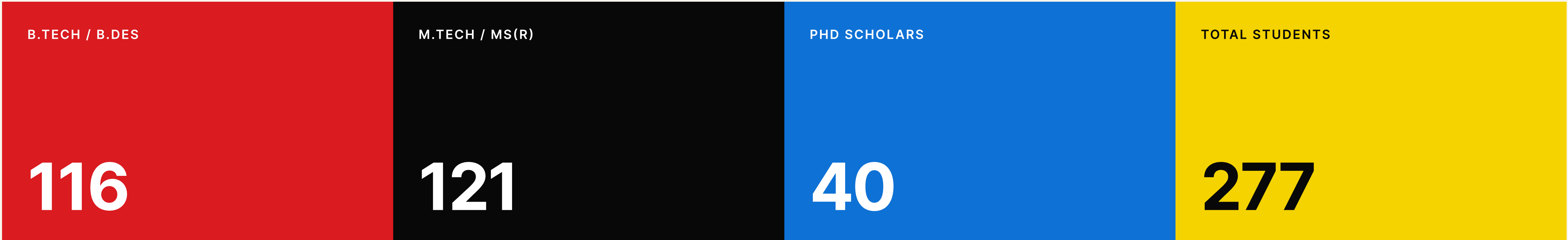
Student Strength

PROGRAMME

Bachelor of Technology
Master of Technology
Doctor of Philosophy
Total

GRADUATING YEAR

Batch of 2027	116
Batch of 2027	121
Batch of 2027	40
	277



Curriculum Highlights (MTech)

Aerodynamics and Propulsion

Advanced Engineering Mathematics

Engineering Computing Laboratory

Introduction to Aerospace Engineering

Aerodynamics

Rocket Propulsion

Aircraft Propulsion

Gas Dynamics

Technical Writing

Computational Mechanics

Advanced Engineering Mathematics

Engineering Computing Laboratory

Finite Element Methods in Engineering

Computational Fluid Dynamics

Continuum Mechanics

Numerical Analysis

Computational Mechanics Laboratory

Technical Writing

Fluid and Thermal Engineering

Advanced Engineering Mathematics

Engineering Computing Laboratory

Fluid Mechanics

Conduction and Radiation

Advanced Thermodynamics

Convective Heat Transfer

Technical Writing

Curriculum Highlights (MTech)

Manufacturing Science and Engineering

Advanced Engineering Mathematics
Engineering Computing Laboratory
Subtractive Manufacturing
Welding and Additive Manufacturing
Engineering Materials and Characterization
Physics of Deformation Processes
Manufacturing Laboratory
Technical Writing

Machine Design

Advanced Engineering Mathematics
Engineering Computing Laboratory
Advanced Mechanics of Solids
Mechanical Vibration
Finite Element Methods in Engineering
Continuum Mechanics
Technical Writing

Electives

Hydrodynamic Stability & Transition to Turbulence
Experimental Methods
Tribology of Bearings
Optimization Methods in Engineering
Soft Computing in Engineering
Fundamentals of Fusion Energy Generation & Tokamaks
Rotor Dynamics
Introduction to Composite Materials
Mechanical Behavior of Materials
Electric Vehical Dvnamics
Modern Control

Curriculum Highlights (BTech)

Core courses

Engineering Mathematics
Solid Mechanics
Fluid Mechanics
Kinematics of Machinery
Heat Transfer
Machine Design
Dynamics Of Machinery
Electrical Machines
Applied Thermodynamics
Mechanical Measurements
Industrial Engineering and Operations Research
Control Systems
Basic Engineering Mechanics

Electives

Manufacturing Of Polymer & Polymer Composites
Micromechanics Of Materials
Modern Control
Machine Learning for Engineers
Introduction to Aerospace Engineering
Aerodynamics
Gas Dynamics
Additive Manufacturing & Welding
Finite Element Methods in Engineering
Optimization Methods in Engineering
Soft Computing
Dynamics of Machining Processes
Mechanical Vibrations

Laboratory courses

Strength Of Materials
Material Science
Fluid Mechanics & Hydraulics
Machine Drawing
Theory Of Machines
Turbomachinery
Data Acquisition
Vibrations
Metrology
Tribology
Thermal Science
Instrumentation & Control
Engineering Drawing

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Prof. Vinayak Kulkarni Professor · High enthalpy flows	vinayak@iitg.ac.in - https://sites.google.com/site/kulksaero/
Prof. Vinodh Bandaru Assistant Professor · Instabilities and relativistic electrons in tokamak plasmas	vkb@iitg.ac.in - https://sites.google.com/view/vinodhbandaru/home

Research Areas

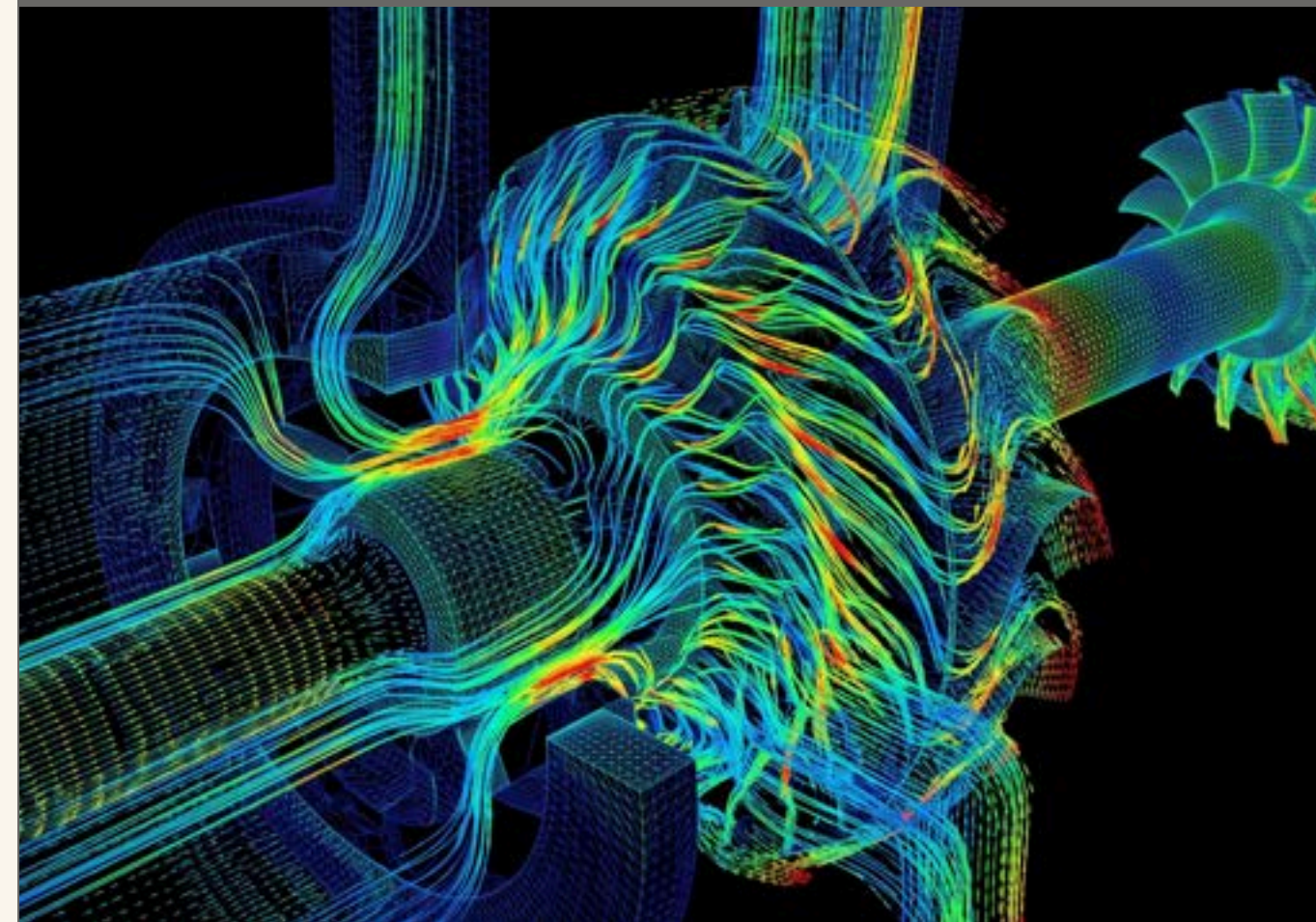
Aerodynamics and Propulsion



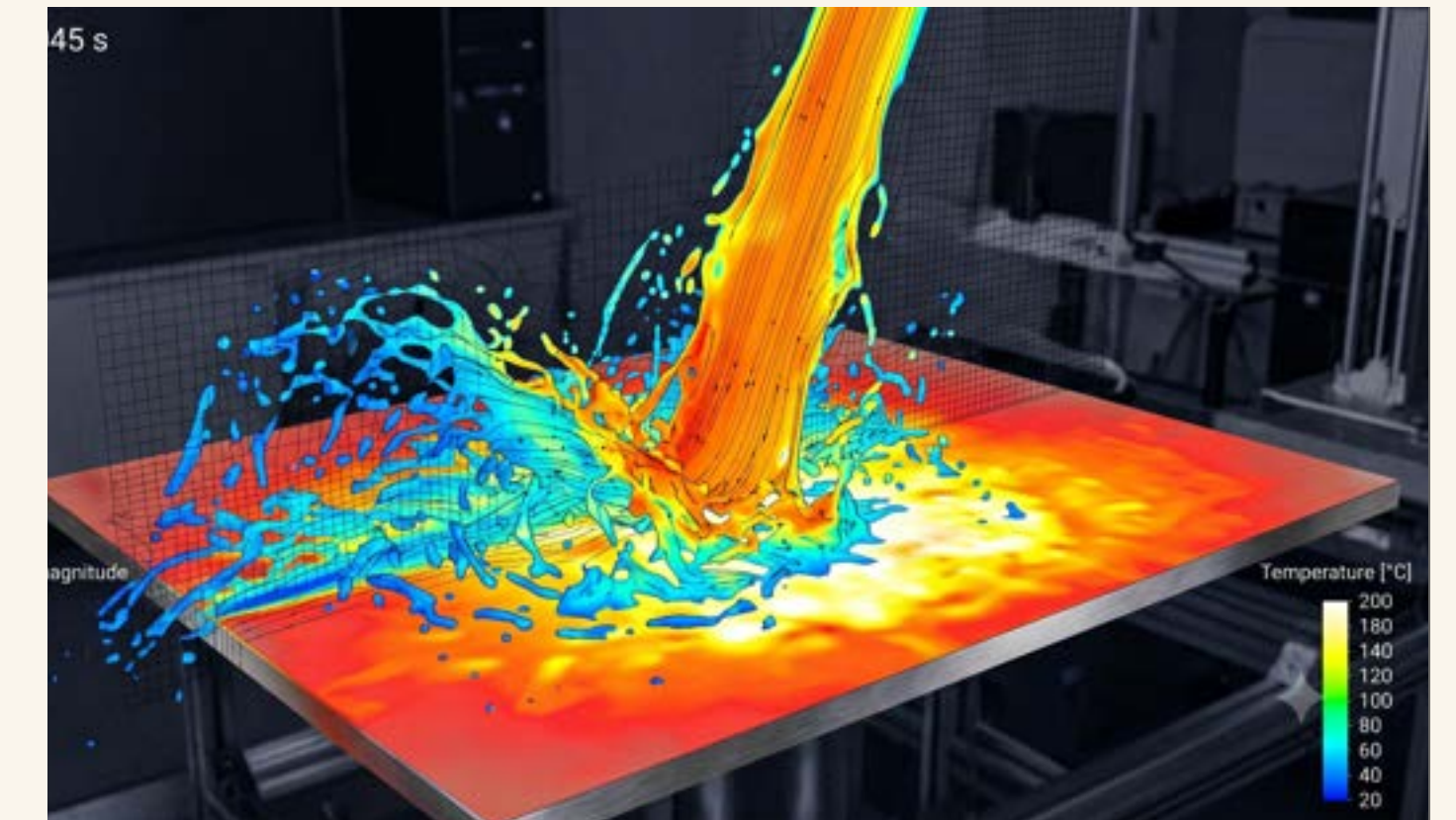
1. Wind Turbine blade shape Optimization
2. AI-Driven digital twin for IC Engines
3. Experimental and Computational Hypersonic Flow Analysis
4. Fluidic Thrust Vectoring
5. Bio-Inspired Aerodynamic designs

Computational Mechanics

1. Digital twin frameworks for predictive and prescriptive maintenance
2. High-performance parallelization of unstructured Navier–Stokes–Fourier solvers for compressible flows
3. Quantum-inspired finite element solvers
4. Finite element analysis of functionally graded materials



Fluid and Thermal Engineering



1. Multiphase Flow & Droplet Dynamics
2. Heat Transfer & Thermal Systems
3. Battery Thermal Management
4. Advanced Computational Solvers
5. Aerodynamics & Hypersonics
6. Bio-Microfluidics
7. Fluid-Structure interaction
8. AI & ML in Fluids

Research Areas

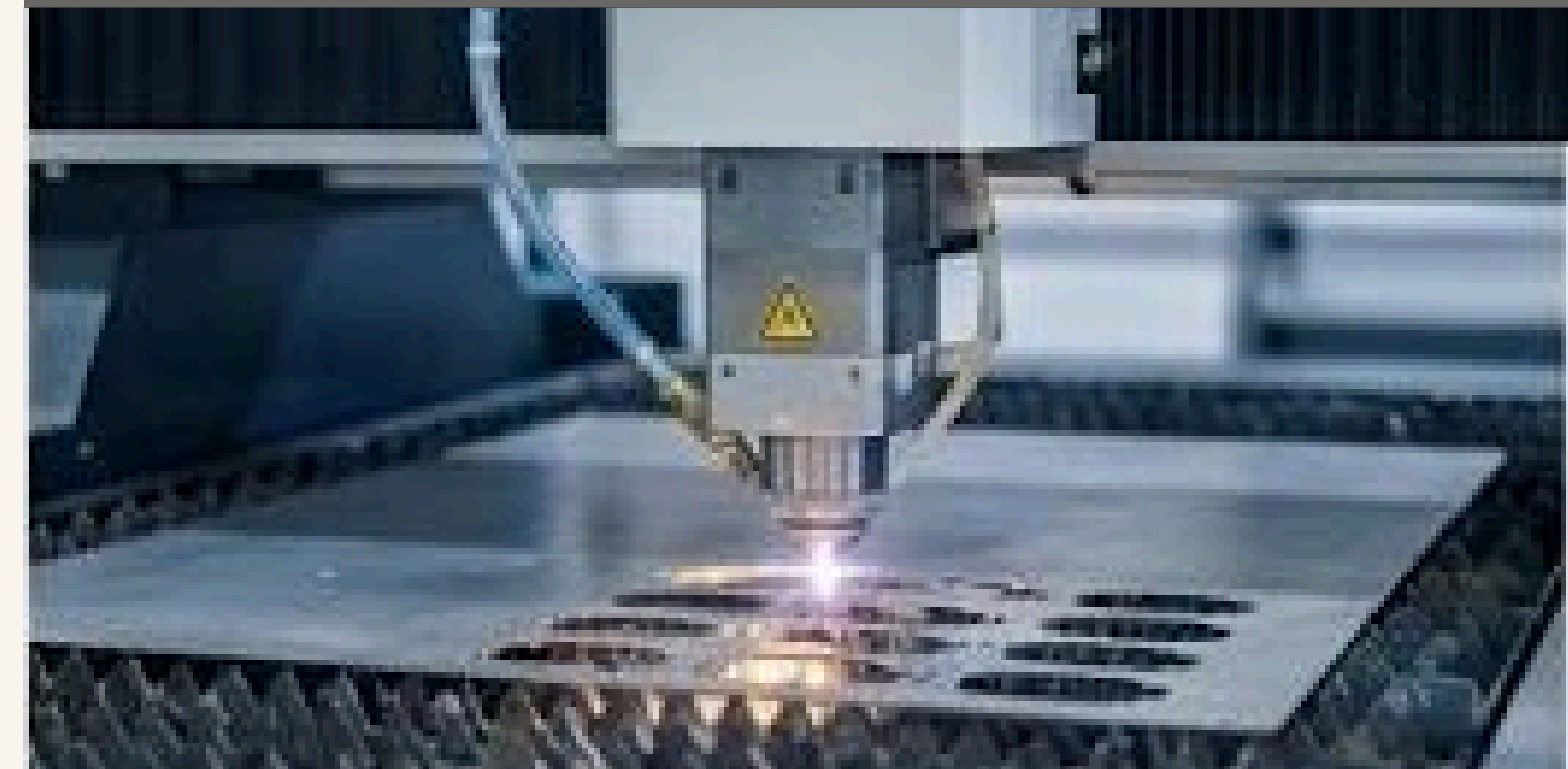
Machine Design



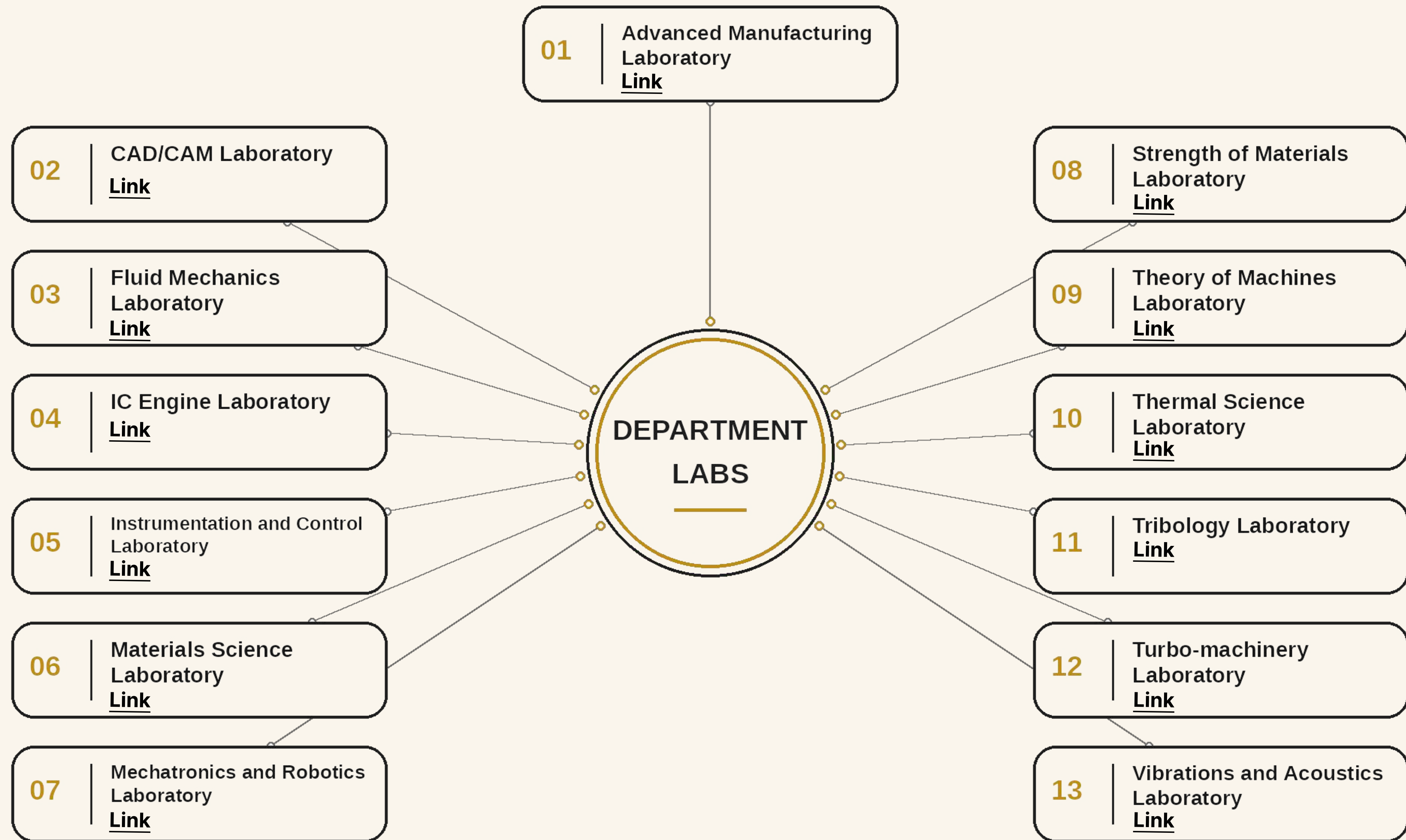
1. Machine Design and Structural Optimization
2. Multiphysics Modeling and Computational Mechanics
3. Smart Structures and Morphing Systems
4. Dynamics, Vibration and Structural Control
5. Smart Materials, Actuators and Sensors
6. Composite Materials and Data-Driven Mechanics
7. Electric Drives and Electromagnetic Systems
8. Advanced Bearing and Rotordynamic Systems
9. Material Failure, Damage and Reliability
10. Impact Mechanics and Advanced Structural Materials

Manufacturing Science and Engineering

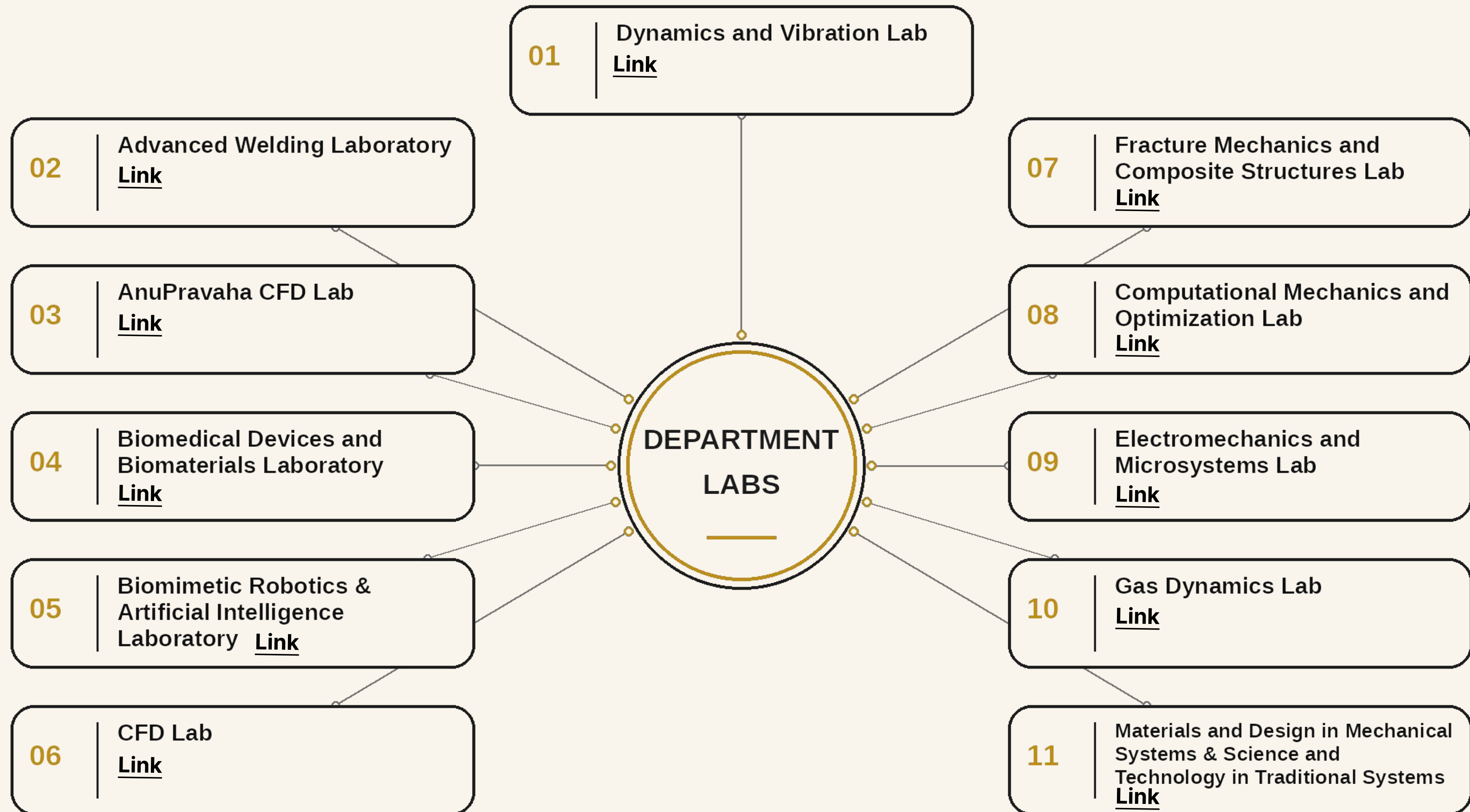
1. 3D Printing
2. Advanced CAD CAM Solutions
3. Additive Manufacturing
4. Computer Aided Process Planning
5. Manufacturing 4.0
6. Hydro Kinetic Turbine
7. CAD Inventory Management System
8. Robotics Lab Automation System



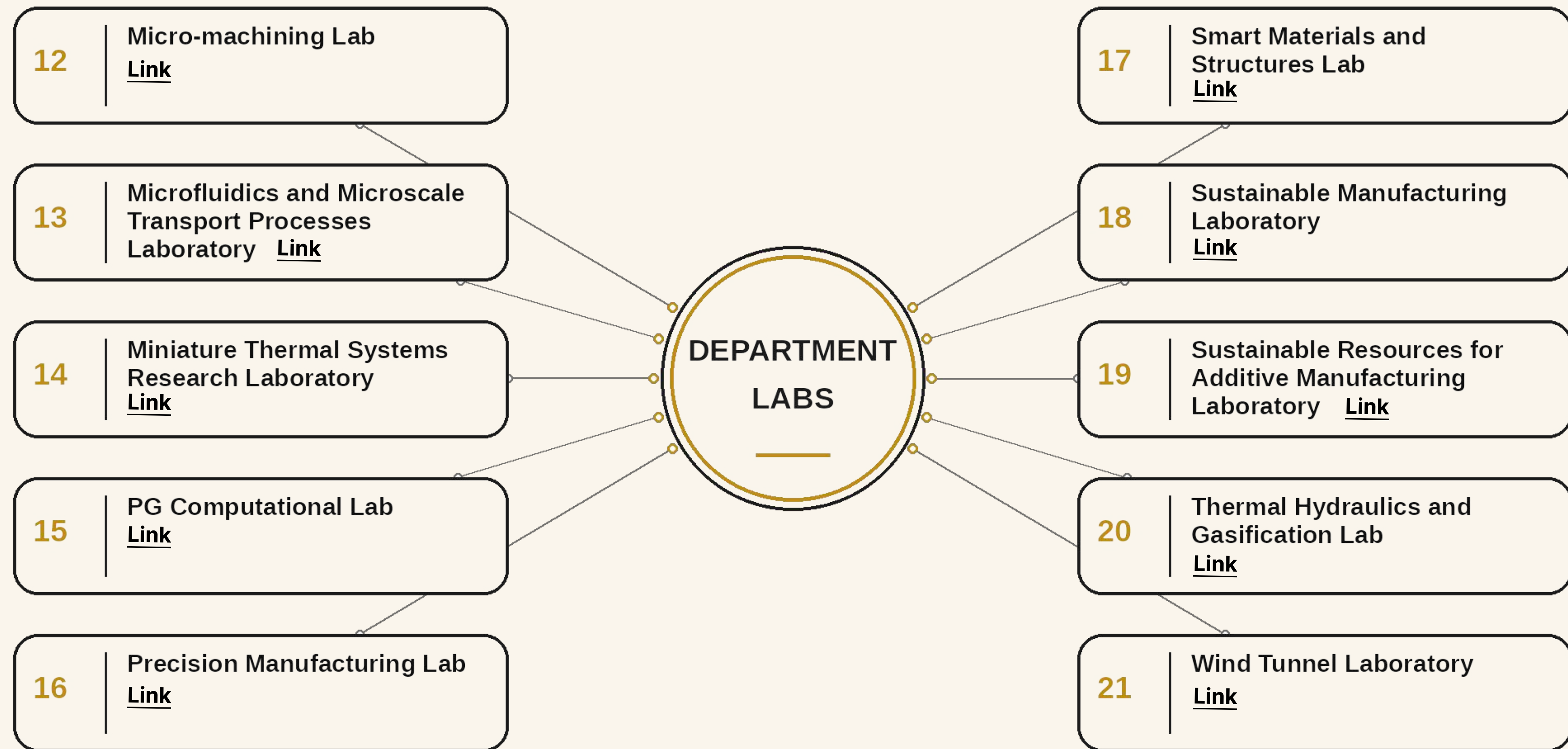
Department Labs



Department Research Labs



Department Research Labs



Achievements



Faculty distinctions

- 1. Advanced Linear Shuttle Systems:** Prof. Karuna Kalita and Prof. Sashindra Kumar Kakoty were granted a patent for their invention, the “Linear Switched Reluctance Shuttle Propulsion System for Looms” introducing breakthrough mechatronics into industrial automation.
- 2. Structural Engineering and Infrastructure Innovation:** Prof. U. S. Dixit (alongside research collaborators) secured a patent for an “Autoclaved Aerated Concrete (AAC) Block Unit” designed to significantly enhance bonding and shear strength in structural masonry wall systems.
- 3. ASME Fellowships (American Society of Mechanical Engineers):** Prof. Ujjwal Saha and Prof. Amaresh Dalal were elected as Fellows of the American Society of Mechanical Engineers (ASME).
- 4. Abdul Kalam Technology Innovation National Fellowship:** Prof. Shyamanta M. Hazarika was awarded the prestigious Abdul Kalam Technology Innovation National Fellowship in recognition of outstanding contributions in the field of Rehabilitation Robotics - Robotic Neurorehabilitation, and Artificial Intelligence.

Student distinctions

- M.Tech student selected for the **New Southbound Policy Elite Study Program 2026** at **National Chung Hsing University (NCHU)**, Taiwan, for a semester-long academic exchange focused on advanced manufacturing, robotics, and automation.
- Bajaj TORQ Challenge 2026:** A team of three B.Tech students secured 1st position, competing among 7000+ participants nationwide.
- 2. Underwater Vehicle Design Challenge - Techniche IITG and TIDF-IITG:** Teams took 1st and 3rd in a semi-virtual challenge to design an autonomous bot for missions in the Mariana Trench.
- 3. IEEE R10 Robotics Competition:** Teams participated in the nationals and secured 1st, 2nd and 4th positions. One team stood top 5 of the total 10 projects competing globally, that were held in Tokyo.
- 4. Altair Simulation Challenge, Formula Bharat 2025:** The students won the top 10 position among all the participating teams (both EV and CV).
- 5. Inter IIT Tech Meet 13.0, IIT Bombay:** B.Tech students secured the overall 3rd position and stood top 10 in the Ideaforge Autonomous Drone Challenge.
- 6. Inter IIT TechMeet 12.0, IIT Madras:** B.Tech students earned Silver-Podium in the Solinas Product Design Challenge for designing a 5m telescoping mechanism for slurry homogenization in deep wells.

Student Activities & Clubs

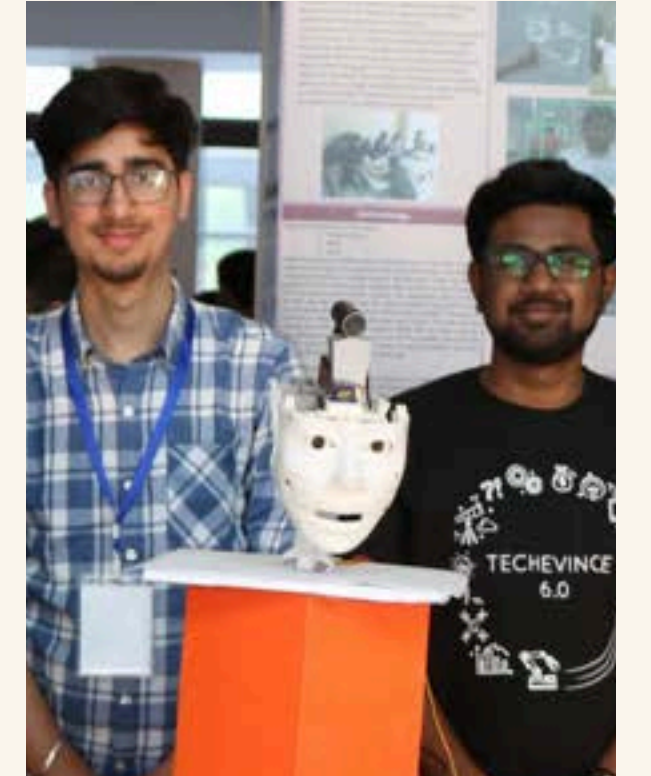
IIT Guwahati fosters a vibrant culture of hands-on engineering and innovation. Our mechanical-oriented student clubs provide dynamic platforms for students to apply theoretical knowledge to real-world engineering challenges.

Aeromodelling Club: Students engineer advanced UAVs and aerial systems from concept to flight, proving their technical execution in national competitions and large-scale public demonstrations. Members develop strong, applied competencies in aerodynamic modeling, lightweight structural design, and systems integration.

Robotics Club: Focused on autonomous systems, this club designs and builds underwater rovers, intelligent ground vehicles, and robotic manipulators from scratch. Through internationally competitive projects like the Yuvaan rover, students acquire highly sought-after skills in embedded coding, AI integration, and sensor telemetry.

IITG Racing: As our official Formula Student team, members design and manufacture high-performance Electric Vehicles (FSEVs) entirely in-house. Backed by top finishes at Pi-EV and SUPRA SAE, students specialize in custom chassis manufacturing, electric drivetrains, and rigorous battery safety protocols.

4i Labs (Ideation, Innovation, Incubation, Implementation): This student-driven incubator tackles complex industrial and societal challenges by rapidly prototyping scalable technological solutions. The lab currently drives five active cross-disciplinary projects, seamlessly bridging mechanical engineering with electrical systems, computer science, and design.



Past Recruiters

	 Mercedes-Benz		 GENERAL ELECTRIC
AIRBUS	Schlumberger		
 ITC Limited		 LARSEN & TOUBRO	
	 TESLA	 SKYROOT AEROSPACE	

Past Recruiters

Past Recruiters



Meet Our Team



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