भारतीय प्रौद्योगिकी संस्थान दिल्ली

Indian Institute of Technology Delhi

2021-22
OFFICE OF CAREER SERVICES
BROCHURE

"We create professionals with a sense of integrity, awareness & excellence."

INDEX

WELCOME

PROF. V. RAM GOPAL RAO
DIRECTOR, IIT DELHI
निदेशक कार्यालय से

"Indian Institute of Technology (IIT) Delhi is one of the premier institutions in the country and among the top three recognized by the Government of India for the Institutions of Eminence scheme. IIT Delhi attracts top talent at all levels and we take pride in our academic standards and the multiple learning opportunities we provide to the students for their all- round development. Students participate in the cutting-edge research activities that faculty members undertake using state-of-the-art facilities available on the campus. Entrepreneurship and Innovation are also hallmarks of the campus. IIT Delhi alumni have excelled in all walks of life and have brought glory to the institute."

भारतीय प्रौद्योगिकी संस्थान (आईआईटी) दिल्ली देश के प्रमुख संस्थानों में से एक और इंस्टीट्यूशन ऑफ एमिनेंस स्कीम के लिए सरकार द्वारा मान्य श्रेष्ठ तीन संस्थानों में से एक है। आईआईटी दिल्ली सभी स्तरों पर शीर्ष प्रतिभा को आकर्षित करता है और हम अपने शैक्षणिक मानकों और छात्रों को उनके सर्वांगीण विकास के लिए सीखने के अवसरों पर गर्व करते हैं। छात्र उन अत्याधुनिक अनुसंधान गतिविधियों में भाग लेते हैं जिन उपलब्ध अत्याधुनिक सुविधाओं का उपयोग संकाय सदस्य परिसर में करते हैं। उद्यमशीलता और इनोवेशन भी परिसर की पहचान हैं। आईआईटी दिल्ली के पूर्व छात्रों ने जीवन के सभी क्षेत्रों में उत्कृष्ट प्रदर्शन किया है और संस्थान को गौरव दिलवाया है।

ANISHYA OBHRAI MADAN
HEAD, OFFICE OF CAREER SERVICES
अध्यक्ष, करियर सेवाएँ कार्यालय

"Indian Institute of Technology (IIT) Delhi, through decades of high performance, has established a worldwide reputation of being amongst the foremost centres of teaching and research in engineering and sciences and has also been accorded the prestigious status of Institute of Eminence (IoE) by MHRD, GoI. Our students are groomed to be leaders. We welcome you to the institute to contribute to your talent needs and hope to work synergistically with you to build your talent pipeline - be it through intern positions or through full-time positions. Looking forward to partering with you in fulfilling your talent needs."

"दशकों से उच्च प्रदर्शन द्वारा भारतीय प्रौद्योगिकी संस्थान दिल्ली ने इंजीनियरिंग एवं विज्ञान में अनुसंधान व शिक्षण के अग्रणी केंद्रों के सत्र में विश्वभर मे ख्याति अर्जित की है तथा शिक्षा मंत्रालय, पूर्व में मानव संसाधन विकास मंत्रालय भारत सरकार द्वारा इसे उत्कृष्ट संस्थान (IoE) का प्रतिष्ठित सम्मान भी दिया गया है। हमारे विद्यार्थी नेतृत्व करने के लिए तैयार हैं। प्रशिक्षण पदों या पूर्णकालिक पदों के माध्यम से। आपकी प्रतिभा जरूरतों को पूरा करने में आपकी भागीदारी के लिए सदैव तत्पर।"

"We extend a very warm welcome to all the recruiters and look forward to a mutually rewarding relationship."

हम सभी नियोक्ताओं का
सौहार्दपूर्ण रूप से स्वागत करते हैं
और पारस्परिक रूप से बेहतर
संबंधो के लिए तत्पर हैं।

WHO ARE WE ?

1961
IIT Delhi was established as College of Engineering

1963
Declared Institution of National Importance, renamed as IIT

2001
Awarded the status of Deemed University

2018
Declared Institute of Eminence

47,000+ have graduated from IIT, Delhi since its inception.
4700+ PhD(s) 15,000+ B.Tech.(s) 26,000+ Masters'

With rigourous courses and a vast offering of extra-curricular and co-curricular exposure, IIT creates individuals skilled with various technical as well as social skills. These individuals today work as scientists, technologists, designers, business managers and entrepreneurs. There are several alumni who have moved away from their original disciplines and have taken to administrative services, active politics or are with NGOs. In doing so, they have contributed significantly to building of this nation, and to industrialization around the world. The institution, in itself, is ranked amongst the best in the world, as follows:

OUR ALUMNI

RAGHURAM G RAJAN

Former Governor, Reserve Bank of India

Dr. Rajan is a world-famous economist and served as 23rd Governor of the Reserve Bank of India during 2013-16. He completed his bachelor's degree in electrical engineering from IIT-Delhi in 1985. He won various awards, listing a few, Fischer Black Prize (2003), Global Leader award by NASSCOM (2010) and Deutsche Bank Prize in Financial Economics (2013).

ANANTH KRISHNAN

Chief Technology Officer, Tata Consultancy Services

Mr. Krishnan joined TCS in February 1988, straight from the campus. As the Head of the TCS Systems Software Group in 1993, he led the group through several generations of technologies. He was instrumental in realigning the group toward a technology consulting, which isnow part of TCS's Global Consulting Practice. Subsequently in 1997, Mr. Krishnan set up the Systems Management Practice to take TCS's in-house capabilities to market.

BINNY BANSAL

Co-Founder, Flipkart

Mr. Binny Bansal is a well-known Indian billionaire and Internet entrepreneur, who co-founded the Indian online retail giant, Flipkart in 2007. He served as the Chief Operating Officer of the Flipkart till January 2016 and then was promoted to Chief Executive Officer. The company is a former Unicorn Startup with a valuation of US$ 22 Billion in August 2018 at the time of acquisition by Walmart.

JYOTI BANSAL

Chief Strategist & Chairman, AppDynamics

Jyoti Bansal is a Silicon Valley technology entrepreneur and founded AppDynamics in April 2008. He served as the company's CEO until 2015, later Chief Strategist and Chairman. He was awarded Ernst & Young Entrepreneur of the Year Award for Northern California.
Recently, he announced to launch Unusual Ventures along with VC John Vrionis with a focus on mentoring early stage startups.

PUNITA SINHA

Founder & Managing Partner, Pacific Paradigm

Punita Sinha is also a CFA charter holder, and member of the CFA Institute and the Council on Foreign Relations. Prior to founding Pacific Paradigm Advisors in 2012, Dr. Kumar-Sinha was Senior Managing Director of The Blackstone Group, leading Blackstone Asia Advisors as the business unit head and Chief Investment Officer. Earlier, Dr. Kumar-Sinha was a Managing Director and Senior Portfolio Manager at Oppenheimer Asset Management and CIBC World Markets.

MOHIT ARON
Founder & CEO,
Cohesity

MANU KUMAR JAIN
Founder & Managing Partner,
IvyCap Ventures Advisors Pvt Ltd

VIKAS AGARWAL
General Manager,
OnePlus India

DEVANG KHAKHAR

Ex-Director of IIT Bombay

Prof. Khakhar has made pioneering research contributions in a number of areas of Chemical Engineering including polymers, granular mechanics and mixing. The work has been published in top international journals such as Nature and Science. Some of the work has had a direct impact on industrial practice.
2015 to 2017.

PAWAN SINHA

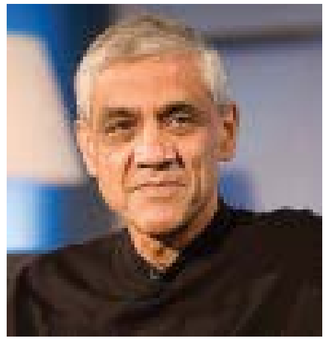
Vision and Computational & Visual Neuroscience in the Department of Brain & Cognitive Sciences at MIT.

Using a combination of experimental and computational modeling techniques, research in Prof. Sinha's laboratory focuses on understanding how the human brain learns to recognize objects through visual experience and how objects are encoded in memory. Prof. Sinha's experimental work on these issues involves studying healthy individuals and also those with neurological disorders such as autism.

SOUMITRA DATTA

Founding Dean of Cornell SC Johnson College of Business at Cornell University, New York

Prof. Soumitra has been centrally involved in the development of Cornell Tech, Cornell's new campus in Manhattan. Before this, Prof. Dutta served as the eleventh dean of the Samuel Curtis Johnson Graduate School of Management at Cornell University. He has also served as the Roland Berger Chaired Professor of Business and Technology, founder and academic director of the eLab at INSEAD.



VINOD KHOSLA

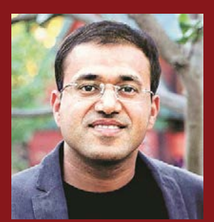
Co-Founder, Sun Microsystems; Venture Capitalist

Vinod Khosla is an Indian American engineer, businessman and venture capitalist who co-founded Sun Microsystems in 1982, after which he formed his venture capitalist firm, Khosla Ventures in 2004. He was named amongst the 400 richest people in the world by Forbes. He pursued B.Tech. in Electrical Engineering from IIT Delhi.

KIRAN BEDI

Lt. Governor of Puducherry, First Woman IPS

Dr. Kiran Bedi is currently the Lieutenant Governor of Puducherry and achieved early life glory by being the first woman to join the Indian Police Service. After the services, she contributed as social activist and a politician. She was a former tennis player and became the national junior tennis champion in 1966. She has received her PhD from IIT Delhi in 1993.

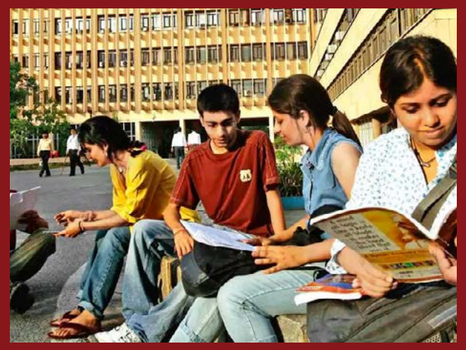


AMIT JAIN
Head (Asia-Pac),
Uber

PANKAJ CHADDAH
Co-Founder & COO,
Zomato

GAUTAM KUMRA
Managing partner
McKinsey's India

OUR STUDENTS



PROJECTS

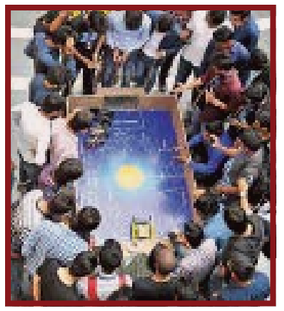
Students undertake various interdisciplinary research and industrial projects under the guidance of the faculty, solving real time problems pertaining to core research and industry.

TRAINING

Students take part in semester long Internship in department specific or non- departmental industry. Apart from this, various industry visits and training sessions are organized for the students.

ACTIVITIES

Students actively participate in cultural, literary and sports activities where they gain team spirit, inter personal skills and leadership qualities. It gives an edge to their personality with holistic growth.



DIVERSITY

Students visit and interact with faculties, professionals and students from 140+ universities & Fortune 500 companies worldiwde through IIT Delhi MoUs. This diversifies their mental & cultural sphere.

OUR ACADEMICS

UNDERGRADUATE

B.Tech., Dual Degree

The journey of an undergrad students begins with foundation courses in sciences, humanities and social sciences. In subsequent semesters, students pursue core departmental courses to gain an in-depth knowledge of their specialization. Electives are offered every semester to develop understanding of topics outside their parent department.

POSTGRADUATE

M.Tech., M.Des., M.Sc., M.S. (Research), PhD

Aim of specialized masters programs at IIT Delhi is to train students in theoretical concepts which will enable them to tackle practical complex problems of design and development in industrial fields, as well as pursue further academic achievements through research. Students in post graduate programs tread on a rigorous journey of self discovery and success.

While completion of courses bring students closer to completing their degree at IIT, what drives the academic culture is the zeal to learn and apply, both from students' as well as professors' end. Many students come up with innovative, novel ideas registered as patents, or even incubated as start-ups.

PATENTS & PUBLICATIONS

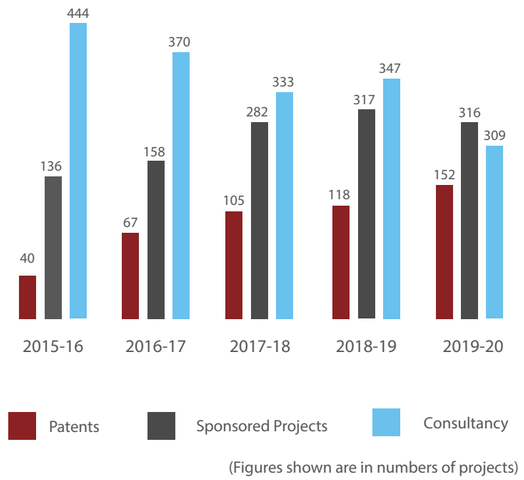
Blockchain, IoT, Composites, Design for Specially Abled are just some of the many areas where IIT Delhi is discovering and registering patents.

INDUSTRIAL CONSULTANCY

International as well as national consultancy projects are delivered, solving real time problems for LG, INFRAS, Gulf Coast etc.

DRDO PROJECTS

75 Faculties | 140 Students | 220 Crore Fund



(Figures shown are in numbers of projects)

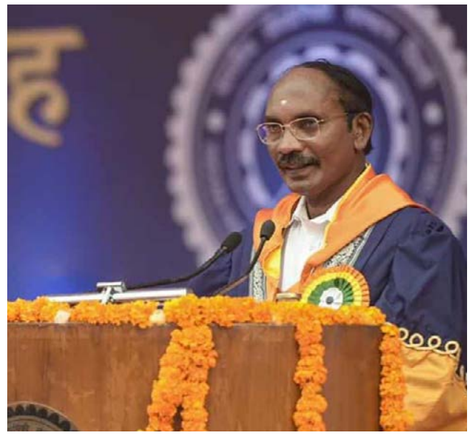
MINOR DEGREE

IIT offers a gateway to earn an additional degree for what you learn! A student can complete given number of courses (& credits) in a department other than his parent department, to obtain a Minor Degree in the same.

WHY HIRE FROM IIT D ?

B.Tech.	M.Tech.	Dual Degree
774	641	106
M.Des.	**M.Sc.**	**M.S. (Research)**
16	218	119

These are the numbers of intake students in each course.



QS WORLD UNIVERSITY RANKINGS

Rank 185

IIT Delhi's World Rank

nirf NATIONAL INSTITUTIONAL RANKING FRAMEWORK

Rank 2

Engineering Universities

CORE VALUES

Integrity and accountability.

Respect and tolerance for the views of others.

Attention to issues of national relevance as well as of global concern.

Breadth of understanding, including knowledge of the human sciences.

Appreciation of intellectual excellence and creativity.

Unfettered spirit of exploration, rationality and enterprise.

HOW TO RECRUIT ?

It's easy to register

If your firm wishes to hire from IIT Delhi you are requested to register on the following link:
https://ocs.iitd.ac.in/portal/recruiter/auth.

> Kindly use only your corporate email ID to register (not your personal email ID).

Verify your account

- After entering your corporate email ID, you'll receive a link on that email.
- Click on that link (token) and the page will redirect you to the next step which will verify that the email entered actually belongs to you.
- Once the email ID is verified, you have to fill in the details (set up the password that will help you to log in, in the future).

Fill in the JNF/TNF

After logging in, click the "Ongoing Sessions" tab and create an NF for the required session (Training/ Placement).

- You can use this account for viewing resumes of interested students and shortlist applicants.

Our Recruitment Process :

1. The placement office sends invitations to companies and organizations along with relevant information. You can also send us a mail at placement@admin.iitd.ac.in regarding the same.

2. Companies and organizations interested to recruit, register to the Career Services website.

3. Companies can register their account on the OCS portal, and after verification and login, they may fill Job Notification Form (JNF) or Training Notification Form (TNF) for each profile they wish to hire for. Once the filled JNF or TNF with all the required details is received, companies are registered and are contacted for further processes.

4. Companies/Organizations can conduct the pre-processes (tests, assignments, etc.) can request for it along with the preferred date.

5. The JNF or TNF is frozen on the Career Services website by the company till a deadline, after which the student shall be able to view all the details, and the eligible students may apply. The company will then shortlist the students either based on their CVs or they can conduct a Test/GD for shortlisting the students.

6. Shortlisted students are notified.

7. The placement office allots the dates for campus interviews, by considering factors like student preference. job profile, compensation, history with the campus, etc.

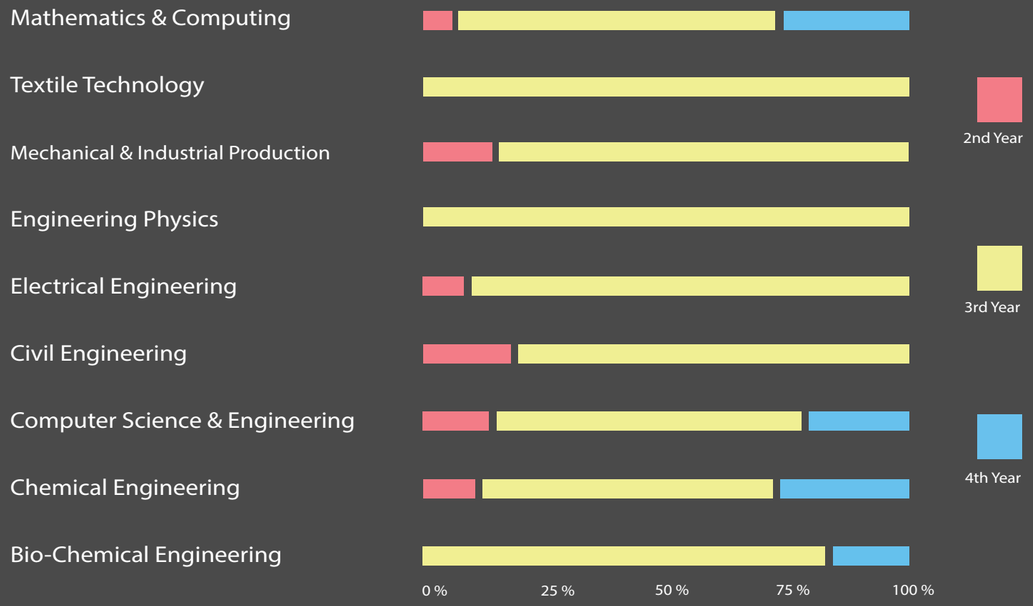
8. After completion of the selection process, the company is required to announce the final list of the students on the same day itself.

A student, once selected, cannot sit for other company interviews. If selected for 2 or more companies, the one higher in his/her preference order (pre-frozen) is registered against his/her name.

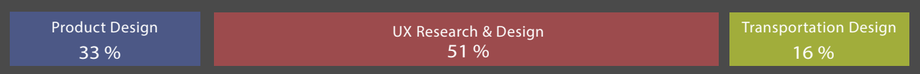
TRAINING & PLACEMENT 2020-21

Previous year saw an exasparating number of training & placement opportunities on campus - planned, organized and consolidated by a Training & Placement team consisting of both students and faculty members. The central team overlooked activities at an institutional level, while nucleus team overlooked activities at departmental level. Similar pattern follows this year. Checkout demographics about industries, roles offered for both internships and jobs in the previous year, 2020-21.

B. Tech - Dual Degree(B.Tech + M.Tech) Internships



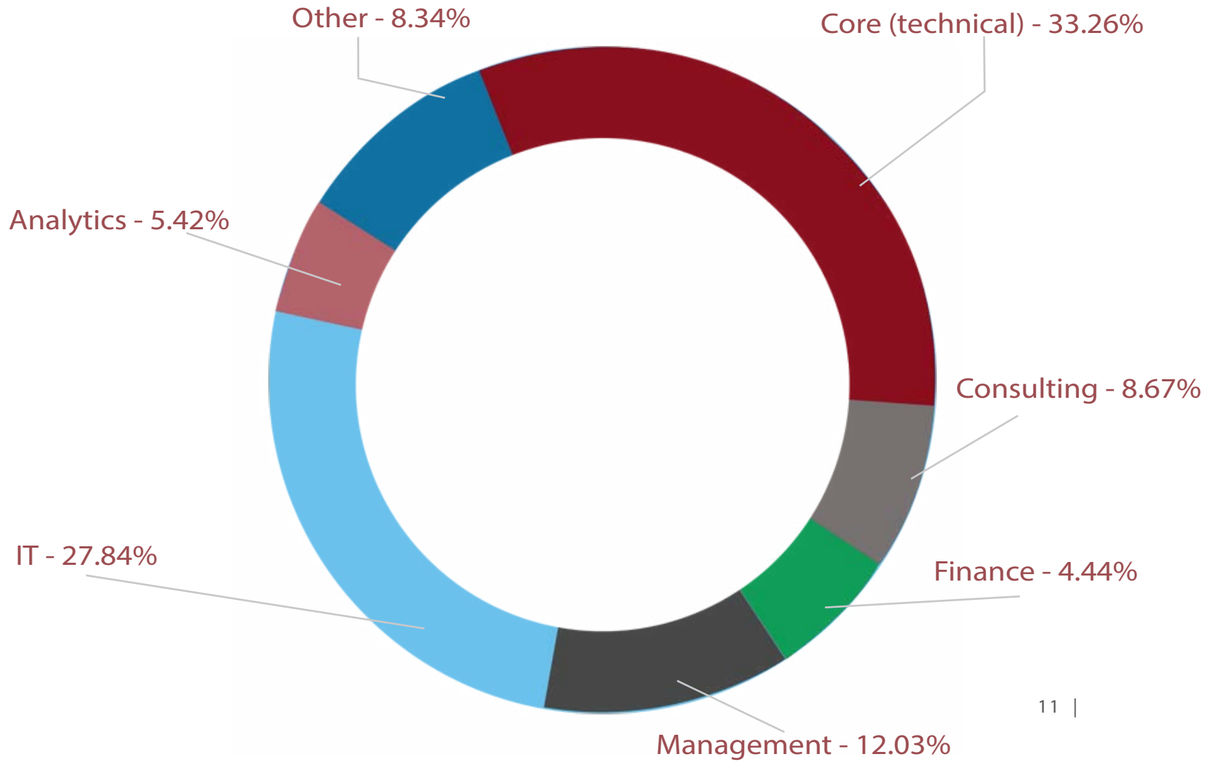
M.Des Internships



Placement by Specializations

B.Tech.	M.Tech.	Dual Degree	M.Des.	M.S. (Research)	M.B.A.
85.64%	64.05%	80.21%	84.21%	72.73%	100%

Placement by Industries



LIST OF PROGRAMS

AVAILABLE FOR RECRUITMENT (2021-22)

While filling the JNF or TNF, the Company needs to choose the programs, the students of which can apply for the specified role. Read about each program in the subsequent pages.

Department of Applied Mechanics
M.Tech. in Engineering Analysis & Design
M.S. (Research)

Department of Biochemical Engineering & Biotechnology
B.Tech.
Dual Degree (B.Tech. + M.Tech.)
M.S. (Research)

Department of Humanities & Social Sciences
M.Sc

Department of Chemical Engineering
B.Tech.
Dual Degree (B.Tech. + M.Tech.)
M.Tech.
M.S. (Research)

Department of Chemistry
M.Tech. in Molecular Engineering: Chemical Synthesis & Analysis
M.Sc.

Department of Civil Engineering
B.Tech.
M.Tech. in Geotechnical & Geoenvironmental Engineering
M.Tech. in Rock Engineering & Underground Structures
M.Tech. in Structural Engineering
M.Tech. in Water Resources Engineering
M.Tech. in Construction Engineering & Management
M.Tech. in Construction Technology & Management
M.Tech. in Environmental Engineering & Management
M.Tech. in Transportation Engineering
M.S. (Research)

Department of Computer Science & Engineering
B.Tech.
Dual Degree (B.Tech. + M.Tech.)
M.Tech.
M.S. (Research)

Department of Design
M.Des. in Industrial Design

Department of Electrical Engineering
B.Tech. in Electrical Engineering
B.Tech. in Electrical Engineering: Power & Automation
M.Tech. in Communication Engineering
M.Tech. in Computer Technology
M.Tech. in Control & Automation
M.Tech. in Intergrated Electronics & Circuits
M.Tech. in Power Electronics, Electrical Machines & Drives
M.Tech. in Power Systems
M.S. (Research)

Department of Materials Science & Engineering
M.Tech. in Materials Engineering
M.Tech. in Polymer Science & Technology
M.S. (Research)

Department of Mathematics
B.Tech. in Mathematics & Computing
Dual Degree (B.Tech. + M.Tech.)
M.Sc.

Department of Mechanical Engineering
B.Tech. in Mechanical Engineering
B.Tech. in Production & Industrial Engineering
Dual Degree (B.Tech. + M.Tech.)
M.Tech. in Mechanical Design
M.Tech. in Industrial Engineering
M.Tech. in Production Engineering
M.Tech. in Thermal Engineering
M.S. (Research)
PGPEX-VLSM Programe

Department of Textile & Fibre Engineering
B.Tech.
M.Tech. in Fibre Sciene & Technology
M.Tech. in Textile Engineering
M.Tech. in Textile Chemical Processing

Department of Physics
B.Tech. in Engineering Physics
M.Tech. in Applied Optics
M.Tech. in Solid States Material
M.Sc.

Centre for Applied Research in Electronics, CARE
M.Tech. in Radio Frequency Design & Technology

Centre of Atmospheric Science. CAS
M.Tech. in Atmospheric Oceanic Science & Technology

Centre for Automotive Research & Tribology, CART
M.Tech. in Industrial Tribology & Maintenance Engineering

Centre for Sensors, Instrumentation and Cyber Physical System Engineering
M.Tech. in Instrument Technology

Inter-Disciplinary Courses
M.Tech. in Optoelectronics & Optical Communication

Bharti School of Telecommunication Technology & Management
M.Tech. in Telecommunication Technology and Management
M.S. (Research)

The Amar Nath and Shashi Khosla School of Information Technology
M.S.(R) in Information Technology

VLSI Design, Tools, and Technology
M.Tech in VLSI Design Tools & Technology,
M.S.(R) in VLSI Design Tools and Technology

KUSUMA School of Biological Sciences
M.Tech. in Biomedical Engineering

Centre of Biomedical Engineering
M.Tech. in Biomedical Engineering

All departments, centres & schools have PhD programs as well.

DEPARTMENT OF APPLIED MECHANICS

M.Tech. Engineering Analysis & Design

M.S. (Research)

PhD

To create an environment wherein we can nurture leaders in engineering analysis and design, capable of addressing the needs and challenges of the discipline and the nation. Our Mission is to be at the forefront of creation and dissemination of knowledge in the areas of Engineering Mechanics, Materials Science and Design Engineering

COURSES WE STUDY

Engineering Mechanics & Design Engineering

- **Continuum Mechanics**
- **Finite Element Analysis**
- **Advanced Dynamics**
- **Theory of plate and shells**
- **Fracture Mechanics**
- **Computational Fluid Dynamics**
- **Advanced Fluid Mechanics**
- **Turbulence and its Modelling**
- **Product Design & Feasibility**
- **Design Optimization**
- **Product Reliability & Maintenance**
- **Modelling & Analysis**
- **Engineering Failure Analysis**

LABS WE HAVE

- Computational Fluid Dynamics
- Computational lab
- Material Characterization lab
- Gas dynamics Lab
- Experimental Methods & Analysis

RECENT PROJECTS

Design Engineering

• Material design using Deep Learning

• Design of Stiffened Shell under underwater explosion

• Design of a smart material based artificial muscle actuator

• Modelling and simulation of human foot

• Dynamic analysis of electric Motorcycle body

• Analysis and design of wind turbine blades

Engineering Mechanics

• Machine learning based digital twin for dynamical systems

• Numerical simulations of flow past vertical-axis wind turbines

• Numerical simulations of flow past vertical-axis wind turbines

• Structural analysis of composite airframes for drones

• Heat transfer analysis of battery pack of an electric vehicle using CFD

Patents

ALUMNI & PAST RECRUITERS

Mr. Rakesh Singh
Head Of Modelling and
Simulation Team, STS-I Pune

Siemens, Eaton,
Schlumberger,General Electric, Hero
Motocorp, Caterpillar, Miraj Group,
Renault Nissan, Oceaneering

CONTACT US

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PG - Student Coordinator
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Email: aashish4.iitd@gmail.com

For more, visit
http://am.iitd.ac.in/

DEPARTMENT OF BIOCHEMICAL ENGINEERING & BIOTECHNOLOGY

B.Tech.

Dual Degree (B.Tech. + M.Tech.)

M.S. (Research)

PhD

Department of Biochemical Engineering and biotechnology was originally raised as Biochemical Engineering research Centre in 1974. Department offers a unique blend of applied biological sciences, chemical engineering, and biochemical engineering. We offer Bachelor of technology, Dual degree, MS(Research) and PhD. Research here involves a vast variety of domains like Bioprocess Engineering, Cell and Molecular Biotechnology, Proteomics, Bioinformatics, Virology, and cancer cell research. Our facilities and curriculum believe in an integrated approach towards academia and Research & Development.

COURSES WE STUDY

- Mass and Energy Balances in Biochemical Engineering
- Molecular Biology and Genetics
- Bioprocess Engineering
- Modelling and Simulation of Bioprocesses
- Recombinant DNA Technology
- Plant Cell Technology
- Protein Science and Engineering
- Bio nanotechnology
- Downstream Processing
- Enzyme Science and Engineering
- Data Analysis for DNA Microarrays
- Biological Waste Treatment
- Biomass and Biophysics

LABS WE HAVE

- Microbiology and genetics Labs
- DAILAB (computational Biology Lab)
- Bioprocess engineering Lab
- Recombinant DNA lab
- Enzyme Engineering Lab
- Cancer and cell culture
- Spectroscopy Lab
- Plant cell Engineering Labs

RECENT PROJECTS

– Development of rapid, deployable diagnostics platform for COVID-19 virus

– Surveillance and mitigation to combat AMR related to discharges from antimicrobial manufacture

– Evaluation of potential diagnostic value of circRNA in meningiomas for risk stratification and its role in therapeutic intervention

– Dissecting the role of somatic polyploidy in the regulation of gene expression associated with liver disease

– GenomeIndia: Cataloguing the Genetic Variation in Indians

– Catalyzing diagnostic technology innovation from bench to bedside

– Development of metagenomics assisted surveillance tools for tracking antibiotic resistance in river bodies

– Local Treatment of Urban Sewage Streams for Healthy Reuse

ALUMNI & PAST RECRUITERS

Poonam Mulherkar

Senior Technical Manager, Pfizer Inc.

Wipro, Thermofisher Scientific, Goldman Sacchs, BCG, Nomura, Wrig Nanosystems, Kepler Cannon, Kinapse

CONTACT US

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abhinavthapa.117@gmail.com
bb110004@iitd.ac.in

For more, visit
http://beb.iitd.ac.in/

DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

M.Sc. (2 years)
(Econimics, Cognitive Sciences)

PhD (Economics
Linguistics
Literature
Philosophy
Psychology
Sociology)

The multi-disciplinary Department boasts of excellent faculty in Economics, Literature, Linguistics, Philosophy, Psychology, Sociology and Policy Studies. Students are extensively trained in quantitative techniques and are actively engaged in the rich research ecosystem. The Department currently has 32 faculty members, who regularly publish in leading international journals. The average number of publications of the dept. for the last 5 years is 68.

COURSES WE STUDY

- Advanced Econometrics and Time Series
- Development Economics
- Advanced Macroeconomics and Microeconomics
- Multivariate Statistics and Stochastic of Finance
- Game Theory and Mechanism Design
- Social Computing
- Programming for Cognitive Science
- Cognitive Neuroscience
- Computation and Cognition
- Language Computations and Mental Architecture

LABS WE HAVE

- Behavioral and Cognitive Science Lab : equipped with an ey tracker (Eyelink 100 plus)
- Computation and Cognition Lab
- Cognitive Processing Lab
- Social Cognition and Group Processes Lab
- Economics Lab: State of the art
- computer lab running latest statistical software to cater to the needs of the modern research scholar.

RECENT PROJECTS

Economics:

• A machine learning tool to suggest career paths

• The poverty mortality linkage in India

• Skill mismatch and social Identity

• Exploring risk factors of adverse maternal and child health outcomes

• Demographic Changes, the Employment Challenge and Development: Evidence from Indian States Cognitive Science:

• Computational and Cognitive Models of Language Production and Comprehension

• Development of a web-based platform to crowdsource public judgments and decisions about technology

• Sex-differences in physical and mental health in adolescents

• Testing lateralization and sex differences in cognitive and affective processing

• Clause final verb prediction in Hindi: Evidence for noisy channel model of communication.

• Productivity and Argument Sharing in Hindi Light Verb Constructions

• Target complexity modulates syntactic priming during

PAST RECRUITERS

Class of '22 will be the first batch to graduate from the masters program. Our highly trained students are excited to enter the job market and eager to compete with the rest of the IITD fraternity.

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DEPARTMENT OF CHEMICAL ENGINEERING

B.Tech.

Dual Degree (B.Tech. + M.Tech.)

M.Tech.

M.S. (Research)

PhD

Boasting an impressive array of outstanding faculty members, modernized and relevant courses, state of the art facilities and most importantly the brightest minds of the nation, IIT Delhi's chemical department ranks amongst the highest in the country and the world. Our gifted faculty members and students have been bringing home countless laurels to the department through their academic and research contributions. Our department aims at the comprehensive development of students into professionals amenable to the industry and market via a delicate balance of classical fundamentals and shifting technological trends.

COURSES WE STUDY

- Indusrial Multiphase
- Petroleum Refinery Engineering
- Modelling of Transport Processes
- Principles of Thermodynamics
- Reaction Kinetics and Reactors
- Numerical Methods in Chemical Engineering
- Heat and Mass Transfer
- Process Plant Design
- Computational Fluid Dynamics

LABS WE HAVE

- Catalytic Reaction Engineering Lab
- Electrochemical and Fuel Cell Lab
- Membrane Separation Lab
- Process Simulation Lab
- Renewable Energy Research Lab
- Complex Fluid Lab
- lectrochemical and Fuel Cell Lab
- Interfacial and Nano-science Lab
- Biosensors and Nanomaterials Lab

RECENT PROJECTS

- Catalysis : Hydrocracking of heavy fuel oil and development of modified catalyst, synthesis of methanol and DME from CO_2 rich syngas, Oxidative coupling of methane;

- Electrochemical Engg.: Development of Solid Oxide Cells for Conversion of Carbon Dioxide to Hydrocarbons, characterisation of conductive polymer nanocomposite systems for energy storage, Solubility enhancement of ions in redox flow batteries, Simulation of kilohertz supercapacitor impedance spectrum;

- Complex Fluid Technology & Fine Chemicals: Effect of pH and removal of asphaltene from surfactant in glass using shear forces, Tuning of particle in static mixers;

- Multiphase Reactor Engg.: CFD simulation of particle settling characteristics in dense slurry flow pipe;

- Environment Engg. & Polymer : Effect of magnetic nanoparticles on thin polymer film

- Biopharmaceuticals/Biomolecules: Analysis of protein refolding step

PAST RECRUITERS

BPCL, HPCL, ONGC, IOCL, EIL, Shell, Haldor Topsoe, Technip, Thermax, Biocon, PDIL, Biocon, Intas, NFIL, Evonik, Sanofi, GE Healthcare, ISRO, Pall Corporation, Dr. Reddy's, Honeywell, Hlindustan Unilever, Exxon Mobil, Reliance industries

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DEPARTMENT OF CHEMISTRY

M.Tech. Molecular Engineering: Chemical Synthesis & Analysis

M.Sc

PhD

The Department of Chemistry, established in September, 1963, is one of the 23 Departments of IIT Delhi. Doctoral and post-doctoral research is carried out in all major areas of chemical and allied sciences. Major thrust is in the areas of analytical chemistry, biochemistry, bioinformatics, polymers, organometallics, solid state & materials chemistry, nanomaterials, organic synthesis, carbohydrate chemistry, structural biology, NMR methodology, X-ray crystallography, theoretical chemistry, computer simulations, etc. The Department has a dedicated team of staff members and distinguished faculty, trained at renowned Institutes in India and abroad. The faculty members attract substantial financial support for their research activities from both governmental and private agencies.

COURSES WE STUDY

- Cheminformatics and Molecular Modeling
- Applied Spectroscopy
- Design and Synthesis of Organic Molecules
- Synthesis of Industrially Important Inorganic Materials
- Chemistry of Industrial Catalysis
- Applied Biocatalysis
- Heterocyclic Chemistry

LABS WE HAVE

- Small rna biology and protein engineering lab
- Biophysical chemistry lab
- Electrocatalysis lab
- Solid state and nanomaterials research lab
- Organic synthesis and molecular design lab
- Electro-analytical and materials chemistry lab
- Organic synthesis and catalysis lab
- Enzyme and microbial and biochemistry lab
- Main group organometallic
- Molecular editing lab
- Nanoscope imaging and sensing

RECENT PROJECTS

-Supramolecular Architecture through Self-Organization of Homoazanucleosides

-Mechanistic Investigations of Growth of Anisotropic Nanostructures in Reverse Micelles

-One-pot production of lactic acid from rice straw pretreated with ionic liquid

-Intercalation–deintercalation of water-in-salt electrolytes in nanoscale hydrophobic confinement by a Novel Thermostable Bacterial Laccase

-Photocatalysis in Dual Catalysis Systems for Carbon-Nitrogen Bond Formation

-Influence of crowding agents on the dynamics of a multidomain protein in its denatured state: a solvation approach

-Quercetin and Baicalein Act as Potent Antiamyloidogenic and Fibril Destabilizing Agents for SOD1 Fibrils

- Alkaline-earth metal-based coordination polymers assembled from two different V-shaped ligands Synthesis, structure, and dielectric properties

- Influence of crowding agents on the dynamics of a multidomain protein in its denatured state: a solvation approach

PAST ALUMNI

Dr. Anjan Ray
Director, IIP Dehradun

Gurpreet Singh Kapoor
Chief General Manager, R&D Cenrte,
Indian Oil Corporation Limited

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DEPARTMENT OF CIVIL ENGINEERING

B.Tech.

M.Tech.
- Geotechnical & Geoenvironmental Engg
- Rock Engineering & Underground Structures
- Structural Engineering
- Water Resources Engineering
- Construction Engineering & Management
- Construction Technology & Management
- Environmental Engineering & Management
- Transportation Engineering

Transportation Engineering

M.S. (Research)

PhD

The Civil Engineering Department, established in 1961 , is one of the oldest departments of the institute and currently offer B.Tech., M.Tech. and Ph.D programmes. The department excels in sponsored research and industry driven consultancy projects. It is actively involved in the organisation of short courses, workshops, curriculum development activities, and seminars for practicing engineers. The department is constituted by a proficient team of faculty, staff, and students who work hard under the support of the institute administration to achieve success in every undertaking.

COURSES WE STUDY

- Concrete Mechanics
- Construction Economics and Finance
- Remote Sensing and Geoinformatics
- Urban and Regional Transportation Planning
- Analytical and neumerical methods for Structural Engineering
- Construction Contracts & Project Management
- Design of Bridge & Masonry Structures
- FEM in Geotechnical Engineering
- Solid Waste Engineering
- Computational Aspects in Water Resources

LABS WE HAVE

- Computational Laboratory
- Environmental Engineering Laboratory
- Surveying And Remote Sensing Laboratory
- Geotechnical Engineering Laboratory
- Structure Engineering Laboratory
- Transportation Engineering Laboratory
- Water Resources Engineering Laboratory

RECENT PROJECTS

- Low cost semiconductor and optical sensor based urban air quality monitoring network system

- Energy efficiency in green buildings using geothermal pile for cooling

- An integrated study of air pollutants sources in Delhi NCR

- Advanced data management system for highways - Development of functional admixtures for applications to sustainable cements

- Influence of basement raft loading on metro tunnels model experiments and numerical analysis

- Performance-based design guidelines for buildings isolated with cost-effective FRP based rubber bearings (jointly completed by IIT Delhi and the University of British Columbia Canada)

- Development of explosive resistant structures structural health assessment analysis and remedial measures

- Design of blast resistant structures

- Creating a safe traffic workzone environment on national highway

- Design of 450 km long iron ore slurry pipeline Novel passive electromagnetic damper for vibration control of structures

- Machine learning assisted instead incident analysis and prediction using structured and unstructured NHAI data

- Analysis and design of surge control system

PAST ALUMNI

Rail India Technical & Economical Services, IRCON, IOCL, NTPC, Bain & Company, BHEL, Dar-al-handasah, Deloitte, Reliance Infrastructure, PWC, EY- Building a better working world, L&T, Jaypee Group, KPMG, Mckinsey & Company, WAPCOS, ITC Limited, Coal India, FLUOR

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

B.Tech.

Dual Degree (B.Tech. + M.Tech.)

M.Tech.

M.S. (Research) Computer Science & Engineering

M.S. (Research) Information Technology

PhD

The department established in 1982, has been ranked at the top in (QS World University Rankings). It contains students form B.Tech , M.Tech , Dual Degree (Btech and M.Tech) , MS and PhD with commitment to pursue research and career in the application of computer science.The Department of Computer Science and Engineering at IIT delhi is renowned for cutting edge research and for imparting state of the art education.

COURSES WE STUDY

- AI and ML
- Database Management and Computer
- Architecture
- Computer Networks
- Data Structures and Algorithms
- Computer Vision
- Operating Systems
- Cryptography and Computer Security

LABS WE HAVE

- Information and Communication Technology for Development (ICTD)
- VLSI Design and Tools Lab
- Data Analytics and Intelligence Research Lab (DAIR)
- Mobile & Machine to Mobile Lab
- Graphics & Vision Lab
- DBMS & AI Lab
- Cloud Computing Lab

RECENT PROJECTS

- Algorithms and Complexity Theory
- AI and ML
- NLP
- Database and Data Analytics
- Architecture and Embedded Systems
- Graphics and Vision
- Computer Networks and Distributed System
- Compilers
- Programming Languages
- Operating Systems and High Performance Systems
- Cyber Security and Secure Information Systems
- Neuroinformatics and Medical Informatics

PAST ALUMNI

Vinod Khosla
Co-founder of Sun Microsystems

Sachin Bansal
Co-founder of Flipkart

Deepinder Goel
Founder of Zomato

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DEPARTMENT OF DESIGN

M.Des. Industrial Design

PhD

Masters in Design at IIT Delhi is a 2 years course focussing on problem solving and implementation of innovative ideas. The course is a blend of different disciplines where each student chooses a specialization of their liking (UI/UX, Product, Automobile or Visual Design). Courses are taught via real application of theoretical information. Rigorous projects, constant professional & academic mentorship and core industrial/ research internships prepare students to be true design professionals.

COURSES WE STUDY

- Design for User Experience
- Design for Usability
- Design Thinking & Innovation Techniques
- Framework of Design
- Computer Aided Product Detailing
- Product Interface Design
- Media Studies
- Design Projects
- Automobile Design

LABS WE HAVE

- Design Studio
- UX Lab
- EEG Lab
- Eye Tracking Lab
- Vehicle Lab
- Social Innovation Lab
- Mechanical Workshop
- 3D Printing Lab

RECENT PROJECTS

- Communication campaign- public health response to covid19 appropriate behaviour.
- Enhancing online learning experience for children
- Design intervention for working people to learn and promote healthy postures
- Augmenting the Indigenous knowledge systems in Indian scenario for health and wellbeing through digital artefacts
- Experience design for vizualizing connected , sustainable mobility
- Human performance augmentation device
- Experience design for enhance Desicion making in smart railways
- Rationalize UX for service product
- Improving Digital wellbeing within microsoft teams
- Digital peace of mind
- Monolith - level 2 EV charger

ALUMNI & PAST RECRUITERS

Praveen Nahar
Director, National Institute of Design

Microsoft, IBM Gartner, PayTM, Enphase Energy, Mathworks, IBM, Grofers, TCS, HCL, Optum, Cvent
Automobile & Product: 3M, Atomberg, Hero, Lava Mobiles, Royal Enfield, 1MG

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DEPARTMENT OF ELECTRICAL ENGINEERING

B.Tech. Electrical Engineering

M.Tech. Electrical Engineering: Power & Automation
Communication Engineering
Computer Technology
Control & Automation
Intergrated Electronics & Circuits
Power Electronics, Electrical Machines & Drives
Power Systems

M.S. (Research)

PhD

The department of electrical engineering has been playing a vital role in producing scientists and technologies of highest calibre ever since it was established in the year 1961. It is one of the largest departments in IIT Delhi and has a distinguished faculty all holding PhD degrees from renowned institutes in India and abroad, some of the objectives of department include providing continuous education programs, training students at the the undergraduate and postgraduate levels, research and development in all branches of EE and Producing scientist. The department and title students and researchers with adequate opportunities. to aid the development extensive research facilities including well equipped laboratories with large with latest state-of-the-art equipment are provided.

COURSES WE STUDY

- AnalogIntegratedCircuits
- OperatingSystems
- CommunicationEngineering
- ComputerArchitecture
- MachineLearning
- EmbeddedSystems
- MOS VLSIDesign
- PowerElectronicConverters
- OptimalControlTheory
- PowerEngineering
- AdavancePowerSystemOptimizations
- CircuitTheory

LABS WE HAVE

- Drives Lab
- Power Electronics Lab
- VLSI Measurements Lab
- Digital Control Lab
- Machine Lab
- Power Systems Simulation Lab
- Electrical Workshop
- Electro mechanics Lab
- Protection and Control Lab
- Electrical engineering Lab
- Power Engineering Lab
- Home Appliance Lab

RECENT PROJECTS

- Physical unclonable fun for communication security
- Modelling of electromagnetic levitation systems
- Self healing and energy efficient internet of energy
- 3D motion perception with a motion disorders
- MEMS RF power amplifier with high figure of merit
- Biomolecular circuit design using RNA thermometer
- Virtual therapy for neurodevelopmental disorders
- Cryogenic CMOS controller IC for quantum computers
- Quantum softwares for cold atom Quantum computer
- Neuromorphic and memory centric computing hardware
- Flexible in organic devices for backplane and sensor node
- Phantom 4 known interactions for communications uses
- Next-generation indoor communication networks
- Exploring neuromorphic robotic application
- Design of high speed high resolution DACs
- Large signal RF Reliability Modelling

ALUMNI & PAST RECRUITERS

Arogyaswami Paulraj
Prof. Emaritus, Stanford University

Alphonso, Cadence, C-DOT, Cisco, Dell, Flipkart, Hitachi, Honda, Huawei, IBM, Intel, MathWorks, NVIDIA, Oracle, QualComm, Samsung, TSMC

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DEPARTMENT OF MATERIALS SCIENCE & ENGINEERING

M.Tech. Materials Engineering

Polymer Science & Technology

M.S. (Research)

Materials Science and Engineering

Ph.D.

Department of Materials Science and Engineering (DMSE) is inherently an interdisciplinary department that draws from practitioners in all application areas, as well as the study of fundamentals of materials science. The focus of R&D activities of DMSE is towards the rational design of materials and processes, engineering of desired material structure and properties, fabrication and synthetic process development, integration of materials in devices, and development of prototypes. The department is further involved in areas of computional materials, additive manufacturing, green energy, and sustainable technology. Department has well-structured teaching and instructional programs that equip the students with learnin competencies and skills that can significantly contribute to the growth of an organization.

COURSES WE STUDY

- Structure & Characterisation of Materials
- Thermodynamics of Materials & Phase Transformations
- Mathematics & Computational Methods in Materials
- Mechanical Behaviour of Materials
- Advanced Engineering Materials
- Engineering Failure Analysis and Prevention
- Polymer Engineering & Rheology
- Polymer Characterisation
- Engineering Plastics
- Rubber Technology
- Polymer Blends & Composite

LABS WE HAVE

- Materials Processing Lab
- Materials Testing Lab
- Materials Characterisation Lab
- Materials Chemistry Lab
- Functional Materials and Membrane Lab
- Rheology Lab
- Particles and Surface Engineering Lab
- Laboratory for Electronics Materials
- Thermal and Thermo mechanical Analysis lab

RECENT PROJECTS

Foam Processability of Ultra High Molecular Weight Polyolefins and Its High-Performance Applications. (Sponsored by Reliance Mumbai)

Functionalized Silica Derived from Rice Husk Ash.(Sponsored by Goodyear Tire and Rubber Company, USA)

Optimizing microstructures of textured nano twinned copper for electronic packaging.(IIT Delhi-NCTU, Taiwan joint project)

Processing and in situ characterization of auxetic behaviour in porous metallic fibre network materials. (Sponsored by SERB-DST)

Development of photo triboelectric nanogenerator for sustainable green energy harvesting from mechanical motion and solar energy. (Sponsored by SERB-DST)

Compartmentalized particles as a multiple drug livery kit for efficient management of Parkinson's disease. (Sponsored by ICMR)

ALUMNI & PAST RECRUITERS

Mr. Mahesh Pathak
Senior Director (Ops), Avery Dennison

Dr. Mayank Dwivedi
Director (DIITM) , DRDO New Delhi

Pidilite, Bosch, Asian Paints, Supreme, Solvay, Anton Paar Polyplex, Uflex, Saint-Gobain

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DEPARTMENT OF MATHEMATICS

B.Tech. Mathematics & Computing

Dual Degree (B.Tech. + M.Tech.)

M.Sc.

PhD

Department of Mathematics is one of the basic science departments at IIT DELHI. Students thrive with a commitment to pursuing research and career in pure, applied mathematics, and scientific computing for making a better future. They are groomed under apt academic rigor which enables them to acquire skills to form efficient solutions for the problems of industry and academics.

COURSES WE STUDY

- Abstract Algebra
- Linear Algebra
- Computational Methods in Differential Equations
- Numerical Analysis Optimization
- Real & Complex Analysis
- Advanced Design of Algorithms
- Stochastic Processes
- Theory of Computation
- Functional Analysis
- Multivariate Statistics
- Number Theory
- Combinatorics
- Numerical Optimization
- Neurocomputing
- Cryptography
- Financial Mathematics
- Fractal Geometry
- Parallel Algorithms

LABS WE HAVE

- VLSI Design & Tool Lab
- Data Analytics Lab

RECENT PROJECTS

- Solving Problems of Network Operations
- Establishment of Centre of Excellence under Industry Alliance on Artificial Intelligence
- Development of Predictive Data Analysis System using Artificial intelligence
- Performance and Dependability Analysis and Development of Testbed of 5G Networks
- Games and Optimization for Energy Management with Stochasticity- GOEMS
- Study of new types of continued 6.6 fractions and applications
- Finite element methods for the variational inequalities of the second kind
- Wavelet methods for PDEs on network
- Valuing Variable Annuities with Lifelong Guarantees Valuing Variable Annuities with Lifelong Guarantees
- DST-FIST project, Computational Lab for Mathematics, 2020-2023
- Indo-French project: Evolutionary PDEs: degeneracy, noise and approximations, 2018-2021 (co PI).

PAST RECRUITERS

Intel, Qualcomm, Texas Instruments, Symantec, Global Logic, Citigroup, Lehman Brothers , Smart Analysis, Sun Microsystem, Bank of America, American Express, Google, Pimco

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DEPARTMENT OF MECHANICAL ENGINEERING

B.Tech. Mechanical Engineering

B.Tech. Production & Industrial Engineering

Dual Degree (B.Tech. + M.Tech.)

M.Tech. Mechanical Design

M.Tech. Industrial Engineering

M.Tech. Production Engineering

M.Tech. Thermal Engineering

M.S. (Research)

PhD

The department of Mechanical Engineering at IIT Delhi is among the first few departments of the institute since inception and enjoys an international ranking of 51-100 as per QS ranking of 2020. This has been made possible through a tireless and uncompromising approach of our department faculty. We have a total student strength of 650 which is expected grow by 50% in the next few years. The Department offers four programs of study. These are Design, Thermal, Production and Industrial Engineering. Our students are very well versed in academics as well as extra-curricular activities.

COURSES WE STUDY

- Thermodynamics
- Control Theory and Feedback Mech.
- Advanced Fluids Mechanics
- Computational Heat Transfer
- Thermal Design
- Mechanics of Composite materials
- Additive Manufacturing
- Stochastic Modelling & Simulation
- Probability & Statistics Operation Research
- Advanced Operations Research
- Robotics & Multibody Dynamics
- Analytical Dynamics
- Automotive design

LABS WE HAVE

- Design Research Lab
- Vibration Research Lab
- Dynamic Impact Lab
- Mechatronics Lab
- CNC Lab
- Design Manufacturing Lab
- Welding Lab
- Micromanufacturing Lab
- Production Engineering Lab
- Automation Lab
- Rapid prototyping Lab
- Combustion ResearchLab
- Heat Transfer Research Lab

RECENT PROJECTS

Thermo-Fluids Engineering

• Effective friction factor of zero shear stress surfaces.

• Effect of wind gust on the Aerodynamic

• Design of air/water cleaning device by bubbles.

• Modelling and Analysis of Electric Hybrid Vehicles running on Indian Urban Driving Cycle.

Mechanical Design

• Impact behavior of automotive joints

• Studying blast injuries for lying down vs. Standing

persons & Experimental study of effectiveness of blast mitigation materials

• Design and Development of Hold-Down Mechanism for vibration isolation (ISRO).

Production Engineering

• Development of Cyber Physical Robotic Welding System

• Laser machining of thin metals and polymers for biomedical applications

• High speed end milling of super alloys using Nano fluids

Industrial Engineering

• Revenue Management in the hotel industry

• Electric buses with fixed depot by Optimizing operating, fixed, user (overcrowding, waiting) costs

ALUMNI & PAST RECRUITERS

IOCL, General Electric, Hero, Boeing, Tata, Mahindra, Bosch, Mercedes-Benz, ANSYS, Eaton, COMSOL, Shell, Honda, BEL, John Deere, TVS, Shell, Chevron, Schlumberger, Siemens, Bajaj Auto, HPCL, Reliance

Manvinder Singh Bangra
Former Chairman, Unilever

Chetan Bhagat
Famous Indian Novelist

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DEPARTMENT OF TEXTILE & FIBRE ENGINEERING

B.Tech. Textile Engineering

M.Tech. Fibre Sciene & Technology

M.Tech. Textile Engineering

M.Tech. Textile Chemical Processing

PhD

Bachelors in Textile Technology is a 4 year program where only top 1% students are selected through Joint Entrance Examination. It includes all major areas of textile manufacturing such as fiber, yarn, fabric and chemical processing with a choice of advanced elective courses in emerging technology, production and operation and quality control. Masters in Textile and Fiber are 2 year programs consisting of one year of course work and one year of project for building strong analytical skills and research competence.

COURSES WE STUDY

- Polymer Chemistry
- Yarn Manufacture
- Technology of Textile Preparation and Finishing
- Specialty Yarns and Fabrics
- Technology of Textile Coloration
- Manufactured Fiber Technology
- Design of Experiment and Statistical Needs
- Supply Chain Management in Textile Industries
- Advanced Printing Technology
- Advances in Finishing Technology
- Advanced Weaving technology
- Theory and Practice of Dyeing
- Technical Textiles
- Medical Textiles

LABS WE HAVE

- Fiber Science and Fiber Production Lab
- Yarn Manufacturing Laboratory
- Fabric Manufacturing Laboratory
- Textile Chemical Processing Laboratory
- Textile Testing Laboratory
- SMITA Research Laboratory
- Extreme Cold Weather Clothing Lab (ECWCL)
- JATC Soft Body Armour Materials Lab
- Focus Incubation Centre for 3D weaving and Structural Composites
- Regenerative Engineering Laboratory
- Computer and microprocessor Laboratory
- Aerostat and Airship Material - Processing and Characterization Lab

RECENT PROJECTS

- High Performance composite fibres

- Novel Nano-silver polymer composite for bioactive technical textiles and plastics

- A Technology Platform for Application of Advanced Textile Structures for theDevelopment of Structural Compositesincluding Green and Waste Composites

- Development of Multilayered Coated and Laminated Fabric for Aerostat Hull Material

- Design and Development of Laminated Fabric for High Altitude Airship

- Design & Development of Extreme Cold Climate Clothing for Defence Personnel

- Development of Soft Body Armour using Shear Thickening Fluids

- Medical Application (Centre of Excellence for Technology Development Scheme)

ALUMNI & PAST RECRUITERS

Mr. Sunil Sood
Managing Director & CEO, Vodafone

Mr. Manoj Gangeya
Director, Ministry of Forest & Climate

Aditya Birla Group, Arvind Ltd., Welspun, Thai Acrylic, Trident Group, Vardhman. AYM Syntex, Michelin tyres, SRF Ltd., Calvin Klein, Tommy Hilfiger, BMD, Reliance, MRF

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DEPARTMENT OF PHYSICS

B.Tech. Engineering Physics

M.Tech. Applied Optics

M.Tech. Solid States Material

M.Sc.

PhD

Department of Physics is one of the Most Prestigious department of IIT Delhi, which aims at preparing graduates to take-up challenges in R&D in Solid State Technology, Nanoscience and Technology, Material Science and Engineering, and Semiconductor Technology and Processing and to fulfill requirements of variousOptical and Optoelectronic industries and R&D organizations.

COURSES WE STUDY

- Physics of Semiconductor devices
- VLSI Technology
- Fiber Optic Components and Devices
- Computational Physics
- Guided Wave Photonic Sensors
- Fourier Optics and Holography
- Computational technique for solid state materials
- Ultra-fast Optics and Applications
- Quantum Information and Computing
- Nanoscale fabrication
- Biomedical optics and Bio-photonics

LABS WE HAVE

- SQUID magnetometer
- FTIR Spectrophotometer
- Nano-Stech. Laboratory
- Beam Plasma Laboratory
- Laser Spectroscopy Laboratory
- Photonics Research Laboratory
- Ultrafast Optics Laboratory
- Nanoscale research Facility

RECENT PROJECTS

- Investigation of the phosphate and sulfate based polyanionic compounds as cathode materials for Na-ion batteries

- Wide Bandgap Semiconductor (Al) GaO/Nitrides Heterostructures for High

- Power Electronic and Optoelectronic Devices (under BRICS)

- Terahertz spectroscopic probing of quasiparticles across quantum wells of two dimensional van der Waals material heterojunctions

- Agri Monitored Reengineering and Transformation (AMRT) Dashboard Chhuikhadan Block

- Development of photoelectrochemical catalysts for efficient CO2 reduction based on novel combinations of 2D materials and 3D nanoscaffold hierarchical structures

- Immiscible liquid on liquid impact and entry dynamics

PAST RECRUITERS

Varroc, Mathworks, Sterlite, Applied Materials, Lockheed Martin Corporation (USA), Renka Corporation (Peabody, MA, USA), Department of Air-force (USA), Naval Research Laboratory, (Washington,USA), DRDO

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CENTRE FOR APPLIED RESEARCH IN ELECTRONICS (CARE)

M.Tech. Radio Frequency Design and Technology (RFDT)

PhD

The M.Tech program in Radio Frequency Design and Technology is distinguished by its orientation towards a practical research-based approach, with focus on hands-on training in hardware and software in Hardware and software in three offered specializations Microelectronics, Signal Processing, and Microwave. Through its rigorous research Projects, it has transformed into a mainstay of industry research and various R&D organizations like DRDO, Cadence, Indian Navy, ST Microelectronics, Keysight, ISRO etc

COURSES WE STUDY

Microelectronics

- MOS VLSI Design
- MEMS Design & Fabrication
- Analog IC Design
- Mixed Signal Circuits

Microwave

- RF Active Circuits
- CMOS RFIC Design
- Semiconductor Memory Design
- Antenna Design

Signal Processing

- Machine Learning
- Statistical Signal Processing
- Digital Communication
- Human Speech Communication
- Sensor Array Signal Processing

LABS WE HAVE

- IC Fabrications & Testing facility for 3-micron technology
- Photollithography Chamber
- Lab Euipped withTCAD for Device Simulation
- Terahertz VNA and Spectrum Analyzer
- RF Anechoic Chamber
- MIC & MEMS Fabrication & Facility
- Acoustic Anechoic Chamber
- DSP Lab

RECENT PROJECTS

- Microelectronics
  - Oscillator Circuit Design for Ultra Low Power Applications
  - Bi-stable MEMSmemory for Low-Power Computer
  - SOI switch simulation in TCAD
  - High Power RF MEMS Switches
  - Design of areaefficient sot memory

-Microwave

  - 280-Ghz Heterodyne imager based on 40nm CMOS Technology
  - mm Wave Antennas for 5G mobile terminal and base station
  - GaN Power Amplifier
  - Dual Band Filtering Antenna

-Signal Processing

  - Speech Enhancement and Voice Activity Detection using Machine Learning IOT Devices
  - Image Reconstruction / Processing from acoustics
  - Mobile Phone Position Detection

PAST RECRUITERS

Intel, Texas Instruments, Samsung, Qualcomm, Mediatek, Analog devices, Fujikura, Marvel, Bosch, Mathworks

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CENTRE FOR ATMOSPHERIC SCIENCES (CAS)

M.Tech. Atmospheric Oceanic Science & Technology

PhD

The Centre for Atmospheric Sciences (CAS) is a premier centre for education and research in atmospheric and oceanic sciences in India. CAS offers MTech in "Atmospheric - Oceanic Science & Technology" supported by Ministry of Earth Sciences under MoU. The goal of CAS is to conduct cutting-edge interdisciplinary research and create highly skilled manpower in 4 core areas: Atmospheric modelling, Ocean modelling, Air pollution and Climate analysis.

COURSES WE STUDY

- Data Analysis Methods
- Advanced Data Analysis for Weather and Climate
- Mathematical and Computational Methods
- Physics and Dynamics of Atmosphere
- Science of Climate Change
- Numerical Modelling of the Atmosphere and Ocean
- Atmospheric Chemistry and Air Pollution
- Remote Sensing of the Atmosphere and Ocean
- Renewable Energy Meteorology
- Air-Sea Interaction

LABS WE HAVE

For Numerical Modelling and Data Analysis

- Padum - a Petaflop-scale Hybrid HPC Cluster, Sikka and RAMA Storage Servers.

For Meteorological Observations

- Microtops Radiometer, Aethalometer, Albedometer

RECENT PROJECTS

• Sub-seasonal to seasonal wind forecasting.

• Analysis of satellite retrieved carbon dioxide(CO_2) over India.

• Aerosol and cloud interactions over the Indian region.

• A deep-learning model to predict thunderstorm.

• Air-quality analysis over Delhi based on observations.

• Methane emission estimations from landfill sites in India.

• Fast impact of anthropogenic aerosols on regional land temperatures of South Asia

PAST RECRUITERS

Intel, Texas Instruments, Samsung, TSMC, Micron, Maxlinear, Qualcomm, Mediatek, Analog devices, Fujikura, Marvel, Bosch, Mathworks, Cadence, Silicon Labs, AMD. Nvidia, GlobalFoundries

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CENTRE FOR BIOMEDICAL ENGINEERING

M.Tech. Biomedical Engineering

Ph.D.

The Centre for Biomedical Engineering is an interdisciplinary centre and applies engineering principles to address medical and biological problem. It has provided interdisciplinary base to develop health care technologies. Over the last two decades the focus has shifted to include biological medicine, behavioural/molecular health and develop innovative biological, materials, implants, devices, and informatics approaches for the prevention, diagnosis, treatment, rehabilitation and injury mechanics. Innovations in instrumentation, drug delivery, tissue engineering and biosensors have been internationally recognized.

COURSES WE STUDY

- Basic Electronics
- Basic Mathematics for Biologists
- Basic Biology and Physiology
- Mechanics of Biomaterials
- Fundamentals of Biomechanics
- Industrial Biomaterial Technology
- Medical Imaging
- Application of Mathematics in Biomedical Engineering
- Biomedical Ethics, Safety and Regularity Affairs
- Biomedical Instrumentation
- Basic Biomedical Laboratory

LABS WE HAVE

- Nanomaterial Synthesis Lab
- Soft Tissue Engineering Lab
- Animal Cell Culture Lab
- Drug Delivery lab
- Biomaterial Instrumentation Lab
- Biomaterials Lab
- MedImg: Biomedical Image & Signal Processing Lab
- Biomedical Instrumentation Technology
- Molecular Biology Lab
- Bio-therapeutics Laboratory
- Experimental & Computational Biomechanics
- Biosensor Characterization Lab
- Lab-on-Chip & Biosensor Lab

RECENT PROJECTS

–Fabrication and evaluation of Bio-Nano Composite Scaffold for Chronic wounds.

–Quantitative software tools to detect intracranial mass lesions.

–Methodology for Quantitative CEST-MRI.

–Design of cell-free vaccine for cancer immunotherapy.

–Development of elbow prosthesis.

–Electroencephalogram signal analysis during locomotion in

different terrains and the transitions: A neurophysiological study.

–Development of functionalized polymeric materials for rapid detection of food borne pathogens.

–Development of biodegradable copolymers from renewable resources: evaluation of properties and applications.

–Applications of non-silicon based nanofabrication technologies and nanoscale devices.

–Development of new functional nanomaterials.

PAST RECRUITERS

TCS Healthcare, Indian Spinal Injuries Centre, TATA Capital Financial services, Child health imprints (iNICU), Philips Healthcare, Kinapse India Scientific Services Pvt. Ltd, RxLogix Corporation India Pvt Ltd.

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DEPARTMENT OF ENERGY SCIENCE & ENGINEERING

M.Tech. Energy Studies (JES)
Energy & Environment Technologies and Management (ESN)

Ph.D.

DESE formerly known as Centre for Energy Studies (Estd. 1976) at IIT Delhi is an interdisciplinary department consisting of manpower possessing different combinations of skills and knowledge from backgrounds viz. Electrical, Mechanical, Instrumentation, Chemical and Physics. The department strives to meet the ever increasing demand for energy in a sustainable manner and envisages ways to protect the environment.

COURSES WE STUDY

- Fuel Technology
- Non-Conventional Sources of Energy
- Energy Audit
- Economics and Planning of Energy Systems, Solar Photovoltaics Devices and System
- Developing Energy Efficiency and Renewable Projects
- Zero Emission Vehicles
- Power System Operation and Control
- Distributed & Decentralized Energy System
- Industrial Energy and Environment Analysis
- Wind Energy & Hydro Power System
- Plasma Based Materials Processing

LABS WE HAVE

- IC Engine and Alternative Fuels
- Solar PV Systems
- Solar Thermal Systems
- Thermal Devices and Testing Plasma Research
- HVAC
- Electrical Power and Renewable Energy System (EPRES)

RECENT PROJECTS

Buffer Storage system for integration of Metal Hydride system with IC engine.

Development of Zero emission Hybrid Engine for transportation sector.

Real time EV Scheduling Algorithm for Demand Response.

Energy Efficient Buildings: Energy Management and Control Strategies for optimization of building Thermal Load.

CFD simulation for cold storage box with self standing cooling solution box.

Battery Thermal Management System for Electric Vehicles.

Active compensation network for partially shaded PV array.

Engineering for Organic Solar Cell to realize higher efficiency.

Fuel Spray Modelling and Simulation.

Smart automation for clean combustion devices.

Iso projects on Energy Storage, Solar Collectors, Solar cells, Turbine Blade Cooling, Wind Rotor, HVAC, P2P Electricity Trading, Frequence Control using AGC, Multilevel Converter, plasmas, Hydrogen Energy, etc

PAST RECRUITERS

General Electric, Sterlite Power, Renault Nissan, ICF, Deloitte ,Schneider Electric, Hero Motocorp, ABB, SECI, John Deere, CITI Bank, PWC, Applied Materials, ANSYS Fluent, Capgemini, RBS, 50Hertz, TATA Motors

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INTER DISCIPLINARY

CENTRE FOR SENSORS, INSTRUMENTATION AND CYBER PHYSICAL SYSTEM ENGINEERING (SeNSE)

M.Tech. Instrument Technology

PhD

The Centre (formerly known as IDDC) offers an interdisciplinary M. Tech Course in Instrument Technology and Ph.D and integrates the disciplines of microelectronics and circuits, optics and mechanical engineering to design and develop complete systems. In keeping with modern trends, industrial expectations vis-a-vis the national goals, two more research areas have been included: Sensor Technology and Cyber Physical Systems. It aims to achieve the national goals and excellence in futuristic technologies by focusing on defense, medical and industrial domains.

COURSES WE STUDY

- Introduction to Machine Learning
- MOS VLSI Design
- Analog Integrated Circuits
- Introduction to MEMS Design
- Electronic Components and Circuits
- Embedded systems and applications
- Sensors and Transducers
- Automation in Manufacturing
- Mechatronic Product Design
- Operating systems
- Computer Aided Manufacturing (CAM)
- Experimental Methods
- Technology of RF and Microwave Solid state Devices
- Machining Processes and Analysis

LABS WE HAVE

- CAD and Simulation Lab
- Manpower Development in Instrument diagnostic Technology Lab (MDIT)
- Laser Application and Holograph
- Optical Metrology
- Optical Workshop

RECENT PROJECTS

- Design and development of automated radio relay link establishment system
- Development of anti-aircraft machine Gun collaboration with Army Technology Board
- Development and automation of Ksharsutra preparation with CCRAS, Health Ministry
- Developing opto-electronics sensor for micro-albumin in urine sample for AIIMS
- Development of optical system for producing Artificial-natural light
- Digital hologtraphic microscopy for cellular in association sigtuple technology
- Development of explosive detection system for Ministry of Defence
- Phase recovery and numeric reconstruction of holographic data using machine learning
- Development of automated system for orthopedic plate bending machine
- Laser based Micro-machining using machine learning in POC setting

PAST RECRUITERS

LAM Research, Intel, HCL Technologies, John-Deere, Larson & Toubro, HFCL , Bosch, Mathworks, Cisco, Havells, Samsung, Reliance Industries, Honeywell, Siemens, Tata Motors, Texas Instruments, Toshiba, TVS, Qualcomm , National Instruments, Applied Materials, Maxlinear, Mediatek, Delta Electonics, Hitachi, TCS, EV Motors, Relaxo, IOCL, DRDO, BHEL, ONGC

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INTER DISCIPLINARY

BHARTI SCHOOL OF TELECOMMUNICATION TECHNOLOGY & MANAGEMENT

M.Tech. Telecommunication Technology & Management

M.S. (Research)

Ph.D.

Bharti School of Telecom was set up in year 2000 through a joint initiative of IIT Delhi and Bharti Enterprises to fulfil emerging technological as well as managerial aspects of telecom, with a vision "To develop Telecom Leaders through excellence in education and research". The Bharti School provides state-of-the-art labs to its students that are comparable to the best in the world. The school itself is housed in a modern building with very good facilities.

COURSES WE STUDY

- -Signal Theory
- -Cloud computing
- -Digital Communications
- -Machine learning
- -Computer Networks
- -Computer Architecture
- -Telecom Technologies
- -Telecom Syst Management
- -Computer Vision
- -Analog Integrated Circuits
- -Synthesis of Digital Syst
- -Embedded Systems
- -Digital Signal Processing
- -Computer Vision
- -Mobile Computing
- - Big Data Analytics

LABS WE HAVE

- Telecom Software Lab
- Telecom Networks Lab
- Digital Systems Lab
- Wireless Research Lab
- Computer Networks Lab
- IOT Lab
- Pervasive Computing Lab

RECENT PROJECTS

• EMBEDDED SYSTEMS

1. Development of healthcare systems and analytics

2. Impulsive noise characterization in high-speed DSL

3. Design of ultra-smart Embedded Router

4. E-monitoring of health of Data Centre

• COMMUNICATION & SIGNALS

1. Path Selection Scheme in Powerline Communications

2. Object Classification Pipeline

3. Intelligent object abandonment detection system, video assessment

4. Co-phasing in underlay Cognitive Radio

NETWORKING/SOFTWARE

1. Network virtualization in cloud (BAADAL)

2. Security and Authorization frameworks in cloud (BAADAL)

3. Cross-site scripting and SQL Injection attacks

4. Bio-inspired algorithms for network congestion control

PAST RECRUITERS

Cisco, Oracle, Qualcomm, Texas Instruments, Intel, Ericsson, Nvidia, Samsung, Broadcom, MediaTek, Enphase, Infineon, Marvell Semiconductors, Telstra Corporation, C-Dot, IBM, Verizon

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INTER DISCIPLINARY COURSE

OPTICAL ELECTRONICS & COMMUNICATION

M.Tech. Optoelectronics & Optical Communication

The programme has been started in 1980 with a focus on research in the field of Fibre Optics and Optical Communication. Main participating departments/ centers are Physics, Electrical Engineering, IDDC, and CARE. This programme has received fundings from the Government agencies like MHRD, DST, DIT (formerly DoE), and DoT.

The department has a strong collaboration with international universities. The program is open to the students having B.Tech in Electrical/ Electronics and Communication Physics. Graduates from this program have been playing important role in various industries like Telecom, Networking, VLSI optics and other RnDs.

COURSES WE STUDY

- Optical Communication Systems
- Digital Signal Processing
- Machine Learning
- MOS VLSI design
- Hardware Modelling of Digital Systems
- Optical Electronics
- Fiber Optic Components & Devices
- Biomedical Imaging & Biophotonics
- Statistical and Quantum Optics
- Plasmonics & Nanophotonics

LABS WE HAVE

- Photonics Lab
- Optical Communication Lab
- Fiber Optics Lab
- Internet of Things (IoT) Lab
- Wireless Laboratory
- Digital Systems Lab

RECENT PROJECTS

- Error Control codes for FSO Channel
- RF Photonic Signal Processing
- Surface Enhanced Raman spectroscopy based chemical sensors
- Modulation of VLC Systems
- Equalization for VLC Systems
- Optimized Microwave Photonic Filter
- Inverse Scattering Transforms
- Studies on THz Communication
- Design and Analysis of Quantum Cascade Lasers
- LASER System Design for Ultracold Atom
- Quantum Interferometry
- Stimulated Brillouin Scattering in Integrated Platforms
- Deep Learning Based End-to-End Visible Light Communication System
- Development of Onboard Corrosion Monitoring
- System using fiber optic sensors
- Plasmonics-based Biosensors

ALUMNI & PAST RECRUITERS

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Rana Pratap Sircar
Head of Innovation & Tech, Ericsson

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Ms. Mansi Rana	Junior Assistant
Mr. Ramesh Chander	Attendant
Mr. Jaipal Singh	MTS

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