

INDIAN INSTITUTE OF TECHNOLOGY
ROPAR, PUNJAB (INDIA)

ADMISSIONS



GET ADMISSION AT IIT ROPAR THROUGH ANY OF THE SCHOLARSHIPS/SCHEMES GIVEN BELOW:

1

STUDY IN INDIA SCHEME

<https://www.studyinindia.gov.in/>

2000 scholarships
Each scholarship is valued
at USD3500

Fee Waiver-
4 Categories
(G1-100% , G2-50%, G3-25%, G4-0%)

2

INDIAN COUNCIL FOR CULTURAL RELATIONS

<https://www.iccr.gov.in/>

The Indian Council for Cultural Relations (ICCR) offers more than 3,300 scholarships every year, under 24 different scholarship schemes.

3

ASEAN-INDIA RESEARCH TRAINING FELLOWSHIP (AI-RTF)

<https://asean-iit.in/>

Fellowship Details
5 Years-The maximum
term for each fellowship
is of 5 years

INR 31,000/-
Student will receive a
monthly stipend -
INR 31,000/- for the
first two years,
INR 35,000/- for the
next three years

INR 170,000/-
Study grant up to
INR 170,000/- is provided
for research expenses
such as travel, books,
contingency expenses

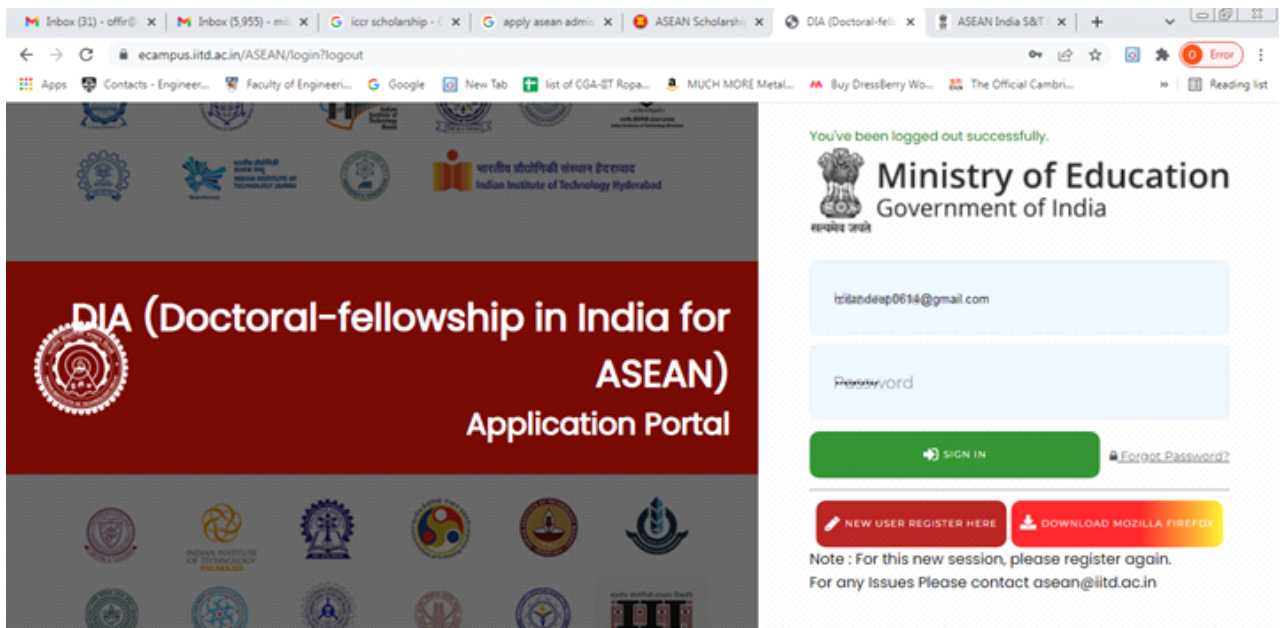
4

SELF FINANCE CATEGORY/DIRECT THROUGH IIT ROPAR PORTAL

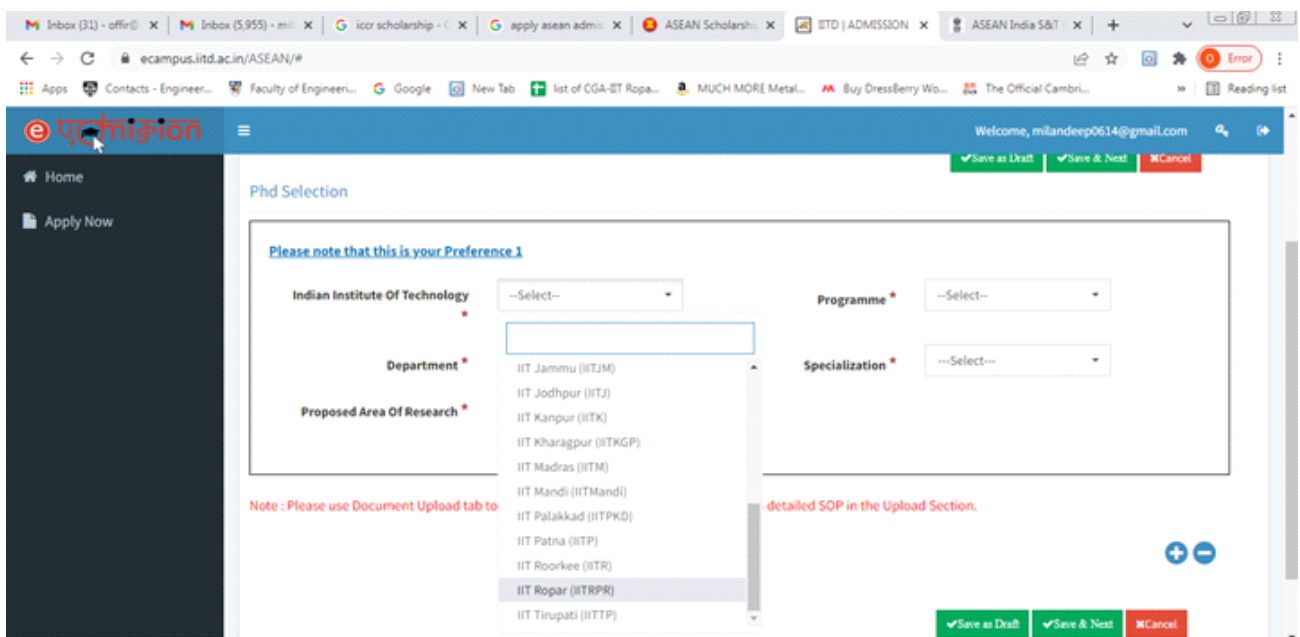
https://www.iitrpr.ac.in/international_students/applyiitrpr.html

ASEAN Scheme: (<https://ecampus.iitd.ac.in/ASEAN/login>)

Complete your registration/application to get admission at IIT Ropar through **ASEAN Scheme** by following the steps given below:



1. Visit the web page (<https://ecampus.iitd.ac.in/ASEAN/login>)
2. Sign in your account if you have account or Click on NEW USER REGISTER HERE to create new account:
3. Click on the button Apply now:
4. Fill up your personal details and after completion of personal detail click on save draft and next.
5. Afterthat under preference 1 choose IIT Ropar.

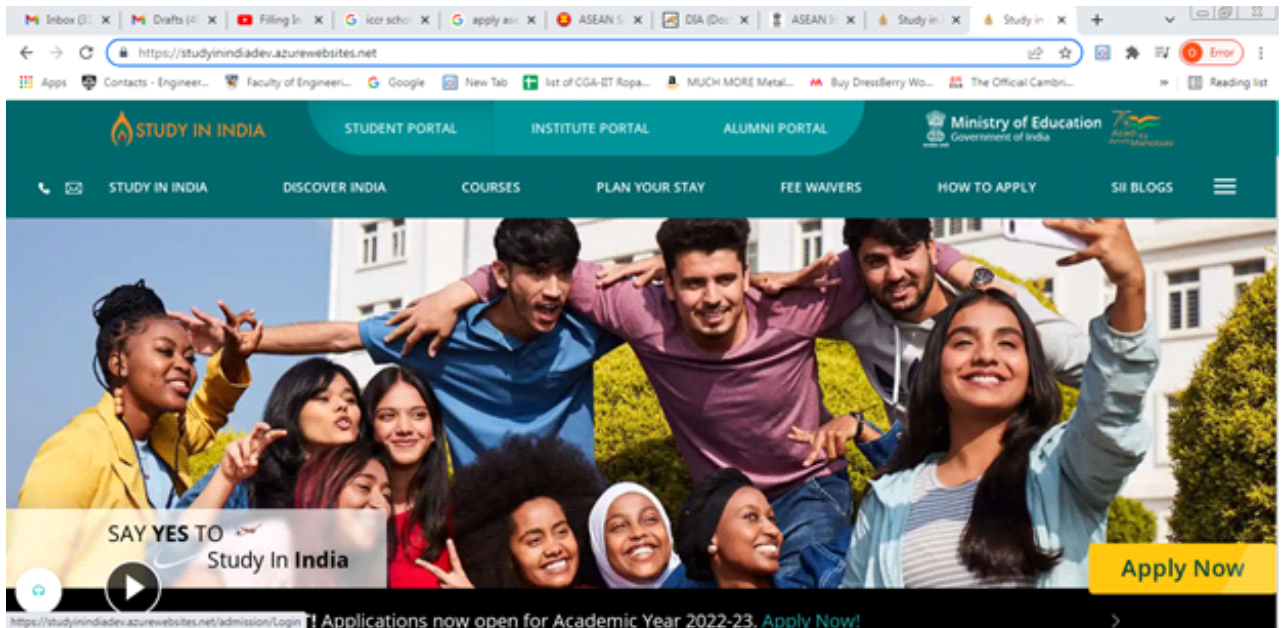


6. Complete the next fields such as Academic details, Publication and referee, Experience details, document details etc. and submit your application.

STUDY IN INDIA SCHEME

<https://www.studyinindia.gov.in/>

Complete your registration/application by following the steps given below for admission at IIT Ropar through Study in India Scheme.



1. Visit the web page of Study in India (<https://www.studyinindia.gov.in/>) and click on Student portal.
2. Create your user Id and Login to your Account:
3. Fill up your all basic Information:
4. Fill up your all Academic Information:
5. Click on Choice filling and choose your appropriate area.
6. Following this, select Indian Institute of Technology Ropar, Rupnagar, Punjab and then Click on Apply button and Submit your Application.

Choices to be Filled

Discipline: ENGINEERING | Program Level: Post Graduate (PG) | Name of Course: Master of Technology (M.Tech) | Specialization: -Select-

Search: Indian Institute of Tech

S.No.	Institute Name	Institute Type	Course Details	Eligibility	Apply
308	Indian Institute of Technology Ropar, Rupnagar, Punjab	Public	ENGINEERING Post Graduate (PG) Master of Technology (M.Tech) Artificial Intelligence	(UG in Computer Science with minimum 60% score Or UG in Information Technology with minimum 60% score)	Apply
309	Indian Institute of Technology Ropar, Rupnagar, Punjab	Public	ENGINEERING Post Graduate (PG) Master of Technology (M.Tech) Bio-Medical Engineering	(UG in Biomedical with minimum 60% score Or UG in Pharmaceutical Biotechnology with minimum 60% score Or UG in Medicine with	Apply

NUMBER OF SEATS AVAILABLE* FOR PH.D PROGRAMME DEPARTMENT WISE:

ENGINEERING:	NO. OF SEATS AVAILABLE
• Biomedical Engineering	14
• Computer Science and Engineering	19
• Chemical Engineering	14
• Civil Engineering	16
• Electrical Engineering	22
• Mechanical Engineering	25
• Metallurgical and Materials Engineering	7
• Humanities and Social Science	14
SCIENCE:	NO. OF SEATS AVAILABLE
• Physics	18
• Chemistry	14
• Mathematics	17

NUMBER OF SEATS AVAILABLE* FOR MASTER'S PROGRAMME DEPARTMENT WISE:

M.TECH PROGRAMMES:	NO. OF SEATS AVAILABLE
• Biomedical Engineering	4
• Computer Science and Engineering	4
• Chemical Engineering	4
• Civil Engineering	4
• Electrical Engineering (Specifications: Power Engineering, Signal Processing and Communications, VLSI)	12
• Mechanical Engineering (Specifications Mechanics and Design, Thermofluids, Manufacturing)	12
• Airtificial Intelligence	4
SCIENCE PROGRAMMES:	NO. OF SEATS AVAILABLE
• Mathematics	6
• Chemistry	6
• Physics	6

* Tentatively subject to revision

RESEARCH AREAS FOR Ph.D

(Atleast 1 seat is offered in each of the following areas)

CHEMISTRY

- Biomaterials, Drug Delivery
- Theoretical and computational chemistry
- Sensors
- Supramolecular Synthesis
- Synthetic organic chemistry
- Synthetic Inorganic Chemistry and Organometallics Chemistry
- Radical Chemistry
- Light Mediated Reactions
- Asymmetric Catalysis
- Nanomaterials, Batteries and Fuel cells
- Statistical mechanics (Theory and computation)
- Peptide chemical biology and medicinal chemistry
- Catalysis and Materials Synthesis
- Magnetic Resonance: Theory and Experiments
- Inorganic, organometallic chemistry
- Organic electronic materials/Diradicals
- Polymer chemistry, (Self-healing polymer, Polymer membrane for solid state battery)
- Organic Synthesis
- Electronic Structure Calculations, Reaction Dynamics, and Cloud computing
- Nuclear Magnetic Resonance: Theory and Experiments
- Theoretical and computational physical and biophysical chemistry
- Electrochemistry, fuel cells, batteries, and energy storage
- Carbon Capture and Utilization
- Biomimetic chemistry

COMPUTER SCIENCE AND ENGINEERING

- Game Theory, Machine Learning
- Software Engineering
- Anomaly Detection, Multimedia Processing
- Data Science
- Artificial Intelligence, Reinforcement Learning
- Computer Architecture and Hardware Security
- Conductive adhesives, water treatment, Polymers
- Distributed computing and edge computing.
- Wireless Body Area Networks, VANETs, WSN
- Internet of things,Blockchain, Software Defined Networking
- Applied Deep Learnin
- gImage Processing & Computer Vision

PHYSICS

- Solar cells
- Gravity and Cosmology
- Quantum field theory
- Quantum Information and Technology
- Laser Material Processing
- Nano-and Quantum-photonics
- Lasers, Optical Computing, Structured Light, Topological Photonics
- Laser Spectroscopy
- BioPhysics

- String Theory, Conformal Field Theory and Holography (AdS/CFT)
- Self assembly in colloidal media
- Ion-matter interactions
- Nanostructuring for light applications

MECHANICAL ENGINEERING

- Surface Engineering, Additive Manufacturing
- Manufacturing Technology
- Non-conventional Machining
- Fluid mechanics, heat transfer
- Minimally Invasive Thermal Therapies, Bioheat Transfer
- Laser Material Processing
- Hydrogen Energy and Technologies, Multiscale Mechanics
- Micromanufacturing
- Reconfigurable robotics
- Solar Energy Storage, Building Cooling Techniques
- Gas turbine combustion, flow dynamics, flame dynamics, thermoacoustics, atomization
- Sustainability, Product Development, Design research
- Biomechanics, Computational Mechanics
- Multifunctional and bio inspired composite materials
- Harmonic Mappings in the plane
- Peptide chemical biology and therapeutics.
- Variational principle, Micro and nano air vehicle, drone technology, composite structures.
- Internal combustion Engines, Air pollution, Low temperature combustion engines, Automotive Engineering

ELECTRICAL ENGINEERING

- Power Electronics and Drives
- Spintronics, Neuromorphic computing
- Dielectrics and High Voltage Engineering
- VLSI analog IC design
- UAV, Wireless Communications
- Image processing, Embedded systems, AI
- Intelligent Transportation Systems
- Sustainability, Product Development
- Internet of Things
- Semiconductor Devices, Device Reliability, Ferroelectric Memory Devices
- Electric Vehicles
- Renewable energy integration
- Smart Grids and Power Systems
- Gas and biological sensors
- Wireless power transmission

MATHEMATICS

- Mathematical Modeling
- Fluid Dynamics, Scientific Computing
- Homogenization and Optimal Control of Partial Differential Equations
- Number Theory and Automorphic forms
- Numerical Modeling on Water Wave Phenomena
- Algorithmic Graph Theory
- Functional Analysis and Operator

- Theory
- Knot Theory
- Data Science

CHEMICAL ENGINEERING

- Soft Matter Engineering and Microfluidics
- Process and Energy Systems Engineering
- Rheology, Complex fluids
- Soft Matter Engineering and Microfluidics
- Conductive adhesives, water treatment, Polymers
- Catalysis and Sustainable Energy Production Processes.
- Colloids & Interfacial Engineering
- Computational Catalysis
- Molecular modeling
- Materials and process design for energy storage system

HSS

- Consumer Behavior (Decision Making, Co-creation, Love, Spirituality & Wellbeing)
- Linguistics, Phonology
- Emotion Regulation
- Cognitions & Emotions
- Macroeconomics
- International Finance
- Growth and Development
- Banking
- Corporate Finance
- Climate Economics
- Health Economics

CIVIL ENGINEERING DEPARTMENT

- Groundwater, Hydrogeology, Water Resources, Climate Change
- Earthquake, Structures
- Remote Sensing
- Environmental Engineering
- Use of Waste in Structures
- Landslides
- Ground Improvement Techniques

METALLURGICAL AND MATERIALS ENGINEERING

- Device Design and Characterization
- Functional Materials: Energy, Optical, Magnetic, Bio
- Physical and Mathematical modeling of steelmaking process
- Biomaterials and Tissue Engineering
- Plasmonics and metamaterials
- Fracture mechanics
- Creep deformation and creep crack growth
- DFT and Machine learning of material properties

BIOMEDICAL ENGINEERING

- Biophotonics, Raman spectroscopy
- Molecular Disease Biology
- Cancer diagnostics and therapeutics
- Biomechanics area
- Immunology and cancer
- Minimally Invasive Thermal Therapies, Heat Transfer
- Biomaterials, Tissue Engineering, Organ on chip

ABOUT IIT ROPAR

Greetings from the Indian Institute of Technology- Ropar!!

- In the last 70 years, Indian Institutes of Technology have become synonymous with quality technical education in India and the world.
- Indian Institute of Technology Ropar (IIT Ropar) is an Institute of national importance and one of the youngest of IITs, which is established by the Ministry of Education (MoE), Government of India, to expand the reach and enhance the quality of technical education.
- Major multinational companies of the world have CEO's from the Indian Institute of technologies such as Amazon, Microsoft, Twitter etc.
- The Indian Institute of Technology (IIT) Ropar has been ranked 2nd in India in the Young University Ranking 2022.
Therefore, it is one of the best options to study in India.



Ranked 351-400
in Times Higher
Education
Rankings
2021



No. 1 in average
citation per
publication among
young IITs



No. 1 in
Average
Publication
per faculty
among young
IITs.



Ranked among
all Indian
Engineering Institutes
as per National
Institutional Ranking
Framework (NIRF)
2021



in The
Young University
Ranking 2021



in The Asia
University
Ranking 2021



Times Higher
Education
Emerging
Economies
2021



Times Higher
Education
Asia University
Rankings 2021



State-of-the-art
Campus



5 Star
GRIHA Rating

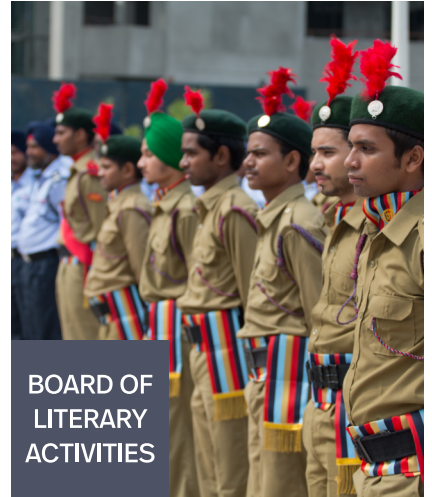
IMPORTANT CONTACTS

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Rupnagar, Punjab-140001

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Whatsap Number: 9417034192



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