



IIT ROPAR

AN OVERVIEW

www.iitrpr.ac.in

MOTTO

धियो यो नः प्रचोदयात्
(Deploy our intellect on the right path)

VISION

To be a trendsetter among the technology universities born in this millennium.



Ranked 1st
For Citations
in The World
University
Rankings
2020



Ranked 1st
in India
in The World
University
Rankings
2020



Ranked 301-350
in The World
University
Rankings
2020



No. 1 in average
citation per
publication among
second generation
IITs



No. 1 in
Average
Publication
per faculty
among second
generation IITs.

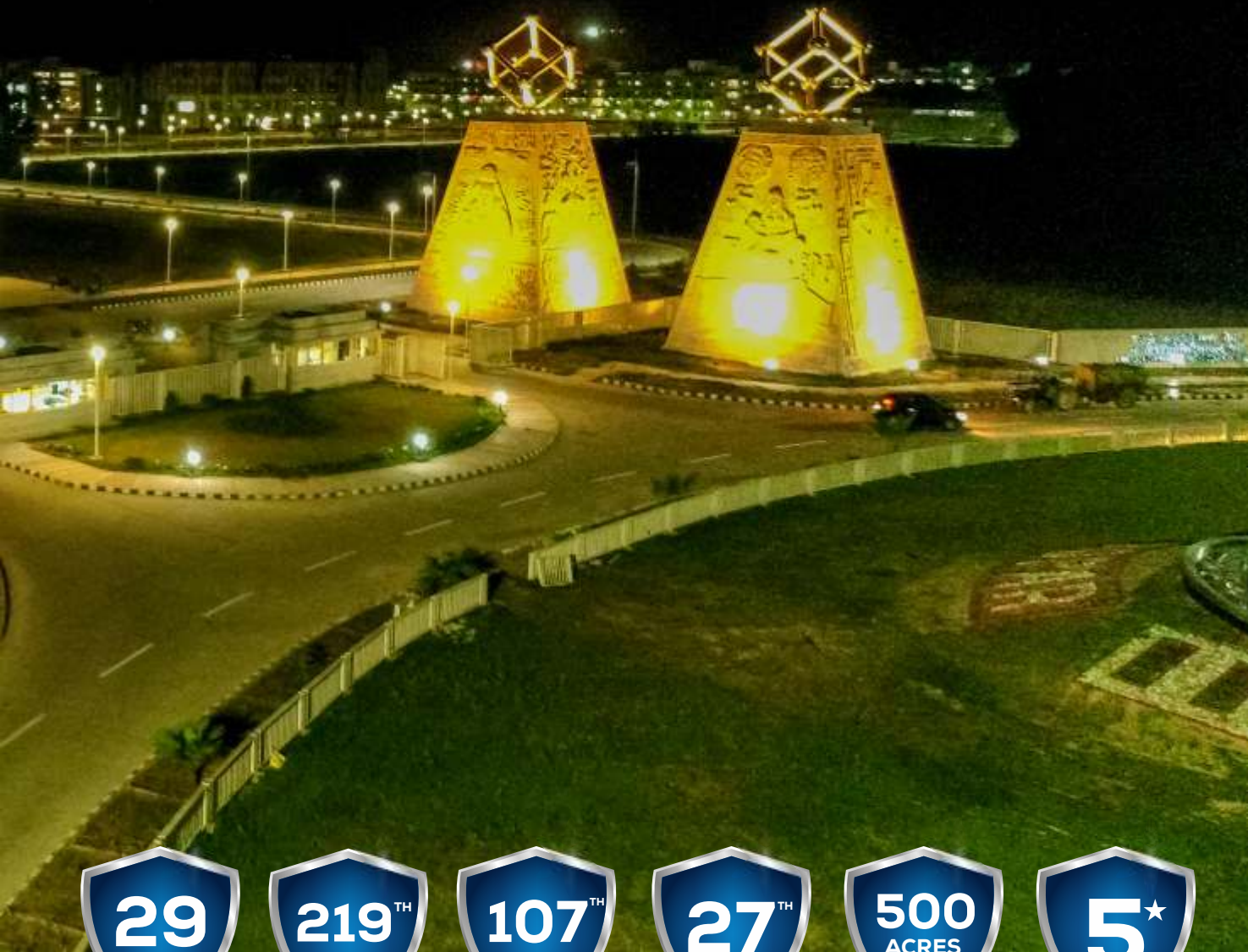


Third in
QS Ranking
in Research
Quality

FAST FACTS

MISSION

To foster a transformative learning environment and a culture of excellence enabling the creation of knowledge and development of socially responsible, enterprising leaders contributing significantly to national progress and humanity.



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



QS ASIAN
UNIVERSITY
RANKINGS



Ranked in
QS BRICKS
RANKING



Ranked among 75
in QS Indian
Universities Ranking



State-of-the-art
Campus



5 Star
GRIHA Rating

ABOUT IIT ROPAR

Indian Institute of Technology Ropar is a young IIT established with seven other IITs in the year 2008. With excellent ambience and location being situated near the river Satluj and serene beauty of nature, the campus holds best infrastructure.

Over the last 10 years, IIT Ropar has established strong tie-ups with various national and international laboratories, universities and industry for research. The mission of IIT Ropar is "To foster a transformative learning environment and a culture of excellence enabling creation of knowledge and development of socially responsible, enterprising leaders contributing significantly to national progress and humanity." It also has a distinctive curriculum that combines rigour and relevance thereby providing a hands-on learning experience to the students.

The institute now has been shifted to its permanent campus, which is spread in 500 acres on the banks of river Satluj. At present, the Institute offers Bachelor of Technology at UG level in Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Metallurgical and Material Engineering and Mechanical Engineering programmes; M.Sc.-MS (R), MS- (R), M.Tech., and M.Sc. at PG level in Computer Science & Engineering, Electrical Engineering, Mechanical Engineering, Physics Chemistry and Mathematics. In research, all departments are offering PhD Programmes.

The Institute has an interdisciplinary Center for Biomedical Engineering & Career Development and Corporate Relations Centre for catering Industry-Academia connect.



ABOUT THE TOWN ROPAR

The town of Ropar (also known as Rupnagar) is of great historical importance. The excavations carried



out at Rupnagar have proved that this town was a seat of well developed Indus Valley Civilization. In Proto-historic Punjab, perhaps Rupnagar is the only known excavation site which can claim the status of a small town or city. The finds in recent excavations consists of earthen bares, statues, coins etc. The city dates back to Harrappa – Mohanjodharo civilization located east of Satluj river. The excavated artifacts belong to Chandra Gupta, Kushan, Hoon and Mughal period. Ropar is nested on the foothills of the Shivalik ranges. The weather of Ropar is generally dry with four distinct seasons. It experiences hot summers and cold winters. The city is very close to Sri Anandpur Sahib-The Birth place of Sikhism & several scenic hill stations of Himachal Pradesh.

STUDENTS & FACULTY

UG		1053
PG		437
PhD		515
TOTAL FACULTY		 163



UNIQUE CURRICULUM



PLACEMENTS & RECRUITERS





RESEARCH AREAS

The Institute undertakes a number of research and consultancy projects sponsored by a wide spectrum of funding agencies, including the Government and Industry. The Institute provides adequate funds to the departments and faculty members for the upgradation of laboratories and creation of research facilities. This has enabled our faculty to take up research projects in frontier areas of science and technology. The Institute has undertaken major research activities in areas of national importance such as:

- Non-Conventional Energy
- Sensors
- Drug Delivery
- Image Processing
- Cloud Computing
- Networks
- Robotics
- Pattern Recognition
- Renewable Energy Systems
- Fluid Dynamics
- Pure Mathematics
- Soft Matter Physics
- Ion Beam Physics
- Renewable Energy
- Sustainable Energy
- Biomechanics
- Nanofluids
- Complex Fluids
- Nanocomposites
- Neuro-cognition
- Phonetics
- Surface Patterning
- Microelectronics & Nanodevices
- Nanophotonics & Metamaterials
- Financial Mathematics & Markets
- Quantum Optics & Quantum Control
- Materials Synthesis & their Modification
- Dynamics of Granular Materials
- Computational Fluid Dynamics
- Scientific Computing
- Catalysis and Chemical Reaction Engineering
- Biomass Conversion Processes
- Biophysics
- Geotechnical Engineering
- Structural Engineering
- Water Resources & Hydraulics Engineering
- Geomatics, Remote sensing & GIS

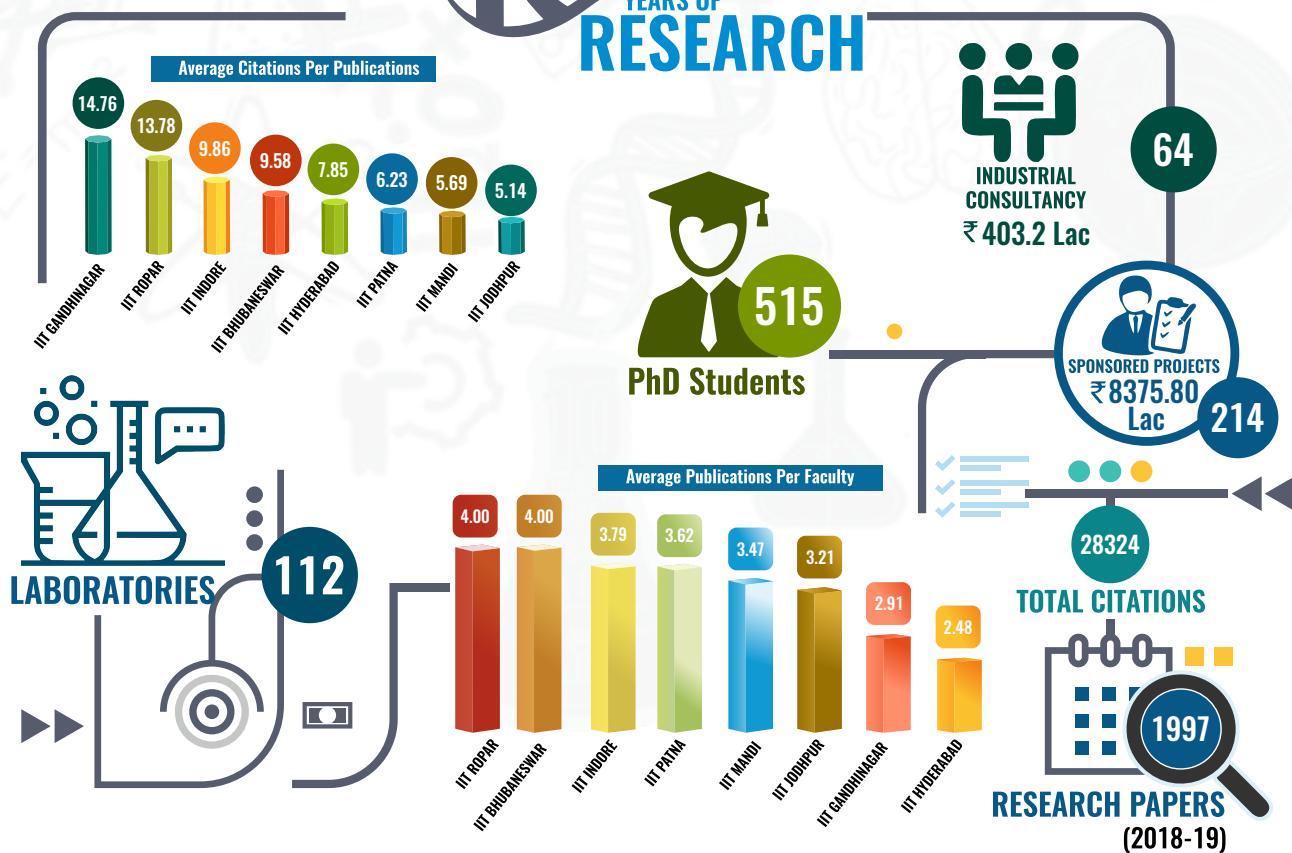
THURST AREAS

- Water
- Cancer Research
- Environmental Issues
- Electrical Vehicle
- Artificial Intelligence and big data
- Drug De-addiction
- Manufacturing

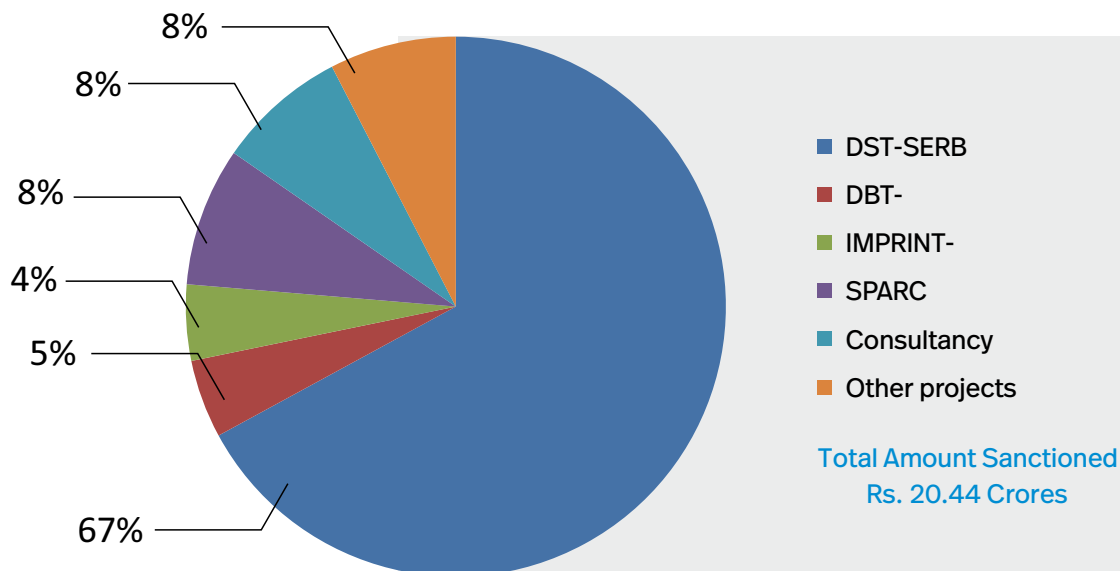


RESEARCH IMPACT

10 YEARS OF RESEARCH



OUR FUNDERS



NUTURING BEST PRACTICES IN TEACHING-LEARNING

The Institute started the B.Tech. programme in the year 2008 at IIT Delhi, which was our mentor institute. The establishment and commencement of the classes and laboratories started in 2009 at the transit campus Rupnagar. The Institute is continuously working on providing world class teaching and state of art training facilities. Extensive use of the NKN facility helps in sharing the lectures with other institutions. IIT Ropar has adopted a systematic and comprehensive course feedback and evaluation system with an aim to identify the best performers. Faculty members offer joint courses with other faculty Members from various universities of India and abroad. We have also conducted flip classes, which allow faculty to spend more time on imparting application oriented hands-on training to the students. On the research front, IIT Ropar started admitting PhD students from the year 2010. During this course of time, the Institute has developed

modern research labs by procuring sophisticated instruments for carrying our world class research. Sanction of sponsored projects from the government established R&D organization is highly emphasized. The Institute has given generous seed grants for the project proposals of newly joined faculty members for initiation of their research. Our emphasis is on constant interaction of faculty members with their peers by participating in National and International conferences using dedicated travel grants. Research scholars are also motivated to participate in conferences and workshops for presenting their papers and posters. Recently the Institute has started research in inter-disciplinary areas of Biomedical Engineering and Materials and Energy Engineering with active collaboration with Chandigarh Region Innovation & Knowledge Cluster (CRIKC) institutions like IISER Mohali, PGIMER Chandigarh, INST Mohali, Panjab University, NIPER, SCL etc.



PARTICIPATION IN NATIONAL INITIATIVES

IIT Ropar aggressively promotes interdisciplinary research in areas which are the need of the nation. We are actively participating in several national initiatives like IMPRINT, Gian, Uchchatar Avishkar Yojana, Unnat Bharat Abhiyan and Swayam just to name a few. Faculty members of our institute work closely with research personnel of premier institutes like PGIMER, DRDO-TBRL, CSIR-IMECH, CSIR, CSIO, NIPER etc.



TECHNOLOGY BUSINESS INCUBATOR

The Indian Institute of Technology Ropar has received a grant of Rs. 5 crores to set up a Technology Business Incubator in Punjab. The grant received is being utilized to contribute towards the Central Government's "Start-Up India Programme". The incubator will foster innovation and entrepreneurship culture in the state over a period of five years.

The main objectives of this Incubator are as under:

- ✓ To promote new technology/knowledge/innovation based start ups.
- ✓ To build a vibrant start up ecosystem, by establishing a network between academia, financial institutions, industries and other institutions.
- ✓ To provide cost effective, value added services to start ups like mentoring, legal, financial, technical, intellectual property related services.
- ✓ To provide a platform for speedy commercialization of technologies developed by the host institution or by any academic/technical/R&D institution or by an individual.
- ✓ To create jobs, wealth and business in alignment with national priorities & Local

INTERNATIONAL COLLABORATION

IIT Ropar has embarked upon an aggressive trajectory to build the necessary expertise in AI and machine learning. As part of its international strategy, it has decided to setup a collaborative research ecosystem with National Chung Cheng University of Taiwan. In this connection, a high-level academic delegation from NCCU visited IIT Ropar to work on the modalities of an Indo-Taiwan Research Center on Artificial Intelligence and Machine Learning.



BINGHAMTON
UNIVERSITY
STATE UNIVERSITY OF NEW YORK

UCLA

NANYANG
TECHNOLOGICAL
UNIVERSITY

NUS
NATIONAL UNIVERSITY OF SINGAPORE

J-WAFS
Abdul Latif Jameel
World Water and Food Security Lab

UNSW
SYDNEY

CARDIFF
UNIVERSITY
PRIFYSGOL
CAERDYDD

TECHNISCHE
UNIVERSITÄT
DARMSTADT

SFU

Imperial College
London

SUNY POLYTECHNIC
INSTITUTE

PURDUE
UNIVERSITY



University of
Strathclyde

MISSOURI
S&T

Aston University
Birmingham

Concordia
UNIVERSITY

UNIVERSITY
OF ONTARIO
INSTITUTE OF TECHNOLOGY

UNIVERSITY OF
CAMBRIDGE

Saitama University
埼玉大学



McMaster
University



MOU

SOCIAL INITIATIVES

The students of IIT Ropar are active as a social service group under the name PEHCHAAN EK SAFAR (Search for an identity) which is now a registered NGO. Around 40 students have been working for the education of underprivileged children around IIT Ropar main campus. These underprivileged kids have given a beautiful start to Zeitgeist- The cultural fest of IIT Ropar with a stunning performance. The children from this section of society had been deprived of education and Pehchaan initiative is giving them opportunity to get proper education.



IIT ROPAR RANKED TOP IN INDIA IN THE HIGHER EDUCATION WORLD UNIVERSITY RANKINGS 2020

- Made it to the top 350 on debut in the list.
- Made debut In World University Ranking- Sharing Top Spot With IISc Bangalore.
- Got 100 in the research citation parameter

IIT Ropar has made an attractive debut in the Times Higher Education World University Ranking 2020 released on September 11. It has bagged the top rank among the 56 Indian institutes that have made it to the list of best universities of the world this year.

IIT Ropar is the highest-ranked Indian newcomer in this year's table, ensconced in the 301-350 bands with its very high score for citation impact and its reasonably strong showing on the industry income measure. Professor S.K. Das says, "The institute has established key areas of research focus of social and national relevance. This is a proud moment for our institute which is the result of the hard works our faculty, students, scholars and staff. We have expanded and created infrastructure last few years, brought talents from the entire country and world and encouraged research initiatives."

Meanwhile, a new research collaboration with the Massachusetts Institute of Technology's Abdul Latif Jameel Water and Food Systems Lab and a new Indo-Taiwan joint research centre on artificial intelligence and machine learning are already "showing results in terms of research quality and global outreach", he says.

Professor Das attributes these improvements to a string of government initiatives aimed at boosting the number of researchers and the quality of research in the country. "Higher education in India is undergoing substantial change," he says.

The ranking includes over 1,300 universities from 92 countries. Rankings are done across 13 performance indicators grouped into five areas: teaching (the learning environment), research (volume, income, and reputation), citations (research influence), international outlook (staff, students and research) and industry outcome (knowledge transfer).



IIT ROPAR RANKED 3rd
IN RESEARCH QUALITY IN INDIA BY QS





BOARD OF
CULTURAL
ACTIVITIES



BOARD OF
LITERARY
ACTIVITIES



BOARD OF
SPORTS
ACTIVITIES



BOARD OF
HOSTEL
AFFAIRS



CAMPUS TOUR



1



4



1. Department of Computer Science & Engineering
2. 13th IEEE ICIIS 2018 @ IIT Ropar
3. Dining Hall
4. Library
5. BAJA SAI INDIA 2018 @ IIT Ropar
6. Republic day celebrations
7. Department of Electrical Engineering
8. Conference Room
9. Department of Mechanical Engineering



5



2



6



3



7





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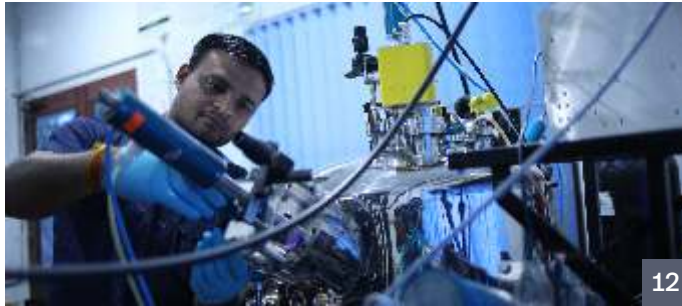
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10



12



13



14



15



16

10. Satluj Hostel
11. International Yoga Day
12. Departmental Lab (Physics)
13. Annual Fest - Zeitgeist
14. Physics Day
15. Lecture Hall Complex
16. Departmental Lab (Chemistry)
17. Departmental lab (Mechanical Engineering)
18. Classrooms



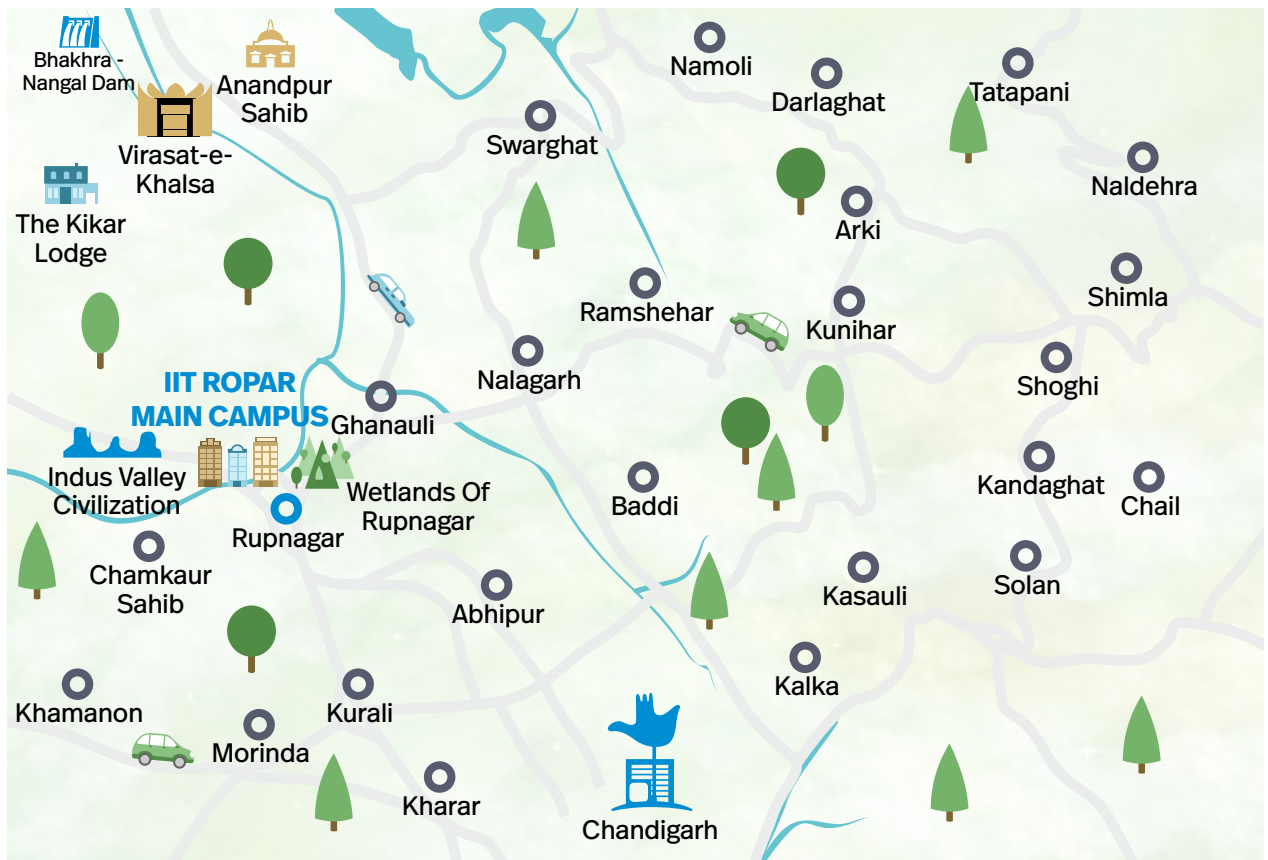
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MAJOR ATTRACTION

IIT Ropar has an excellent location, historic cultural hub and student – centric district.



**Erstwhile Seat
of the Indus
Valley Civilization**

HISTORICAL
BACKGROUND

**30.97°N
76.53°E**

LATITUDE &
LONGITUDE

**Winters
Dry & Cold
Summers
Hot & Rainy**

WEATHER



IMPORTANT CONTACT

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Office of Associate Dean (Student Affairs)	: Email: deansa@iitrpr.ac.in
Office of Registrar	: Email: registrar@iitrpr.ac.in
Website	: www.iitrpr.ac.in www.iitrpr.ac.in/jee-aspirants

**Hindi, Punjabi
& English**

SPOKEN
LANGUAGE

6.85 Lakhs

POPULATION

1356 Sq. Kms.

AREA

**Wetlands on
River Sutlej,
nestled at the
foothills of
Shivalik**

GEOGRAPHY





THE BIG FAMILY

HOW TO REACH US



Chandigarh Airport
61 kms



Chandigarh Railway Station
57 kms
Mohali Railway Station
36 kms
Rupnagar Railway Station
6 km



ISBT, Sector-17, Chandigarh
48 kms
ISBT, Sector-43, Chandigarh
47 kms
Rupnagar
8 Kms



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