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About IIT Mandi

The Indian Institute of Technology Mandi (IIT Mandi), one of the premier technical institutes in India. IIT Mandi was established in 2009 with the aim of providing world-class education and cutting-edge research in engineering, science, and technology. Since its inception, the institute has strived to achieve excellence in education, research, and innovation.

Located in the scenic town of Mandi in the Himalayan foothills, the institute offers a unique learning experience to its students. With state-of-the-art facilities and world-class faculty members, IIT Mandi provides a conducive environment for research and learning. The institute offers undergraduate, postgraduate, and doctoral programs in various disciplines of engineering, sciences, and humanities.

At IIT Mandi, we believe in fostering an environment of innovation and creativity. Our faculty members are renowned experts in their fields and are committed to providing their students with the best possible education. With our multidisciplinary approach to education, we aim to produce graduates who are well-rounded and equipped to solve real-world problems.

We take pride in our research culture and encourage our students to engage in cutting-edge research in various fields. Our research facilities are equipped with state-of-the-art equipment and resources, providing our students with ample opportunities to explore their interests and pursue their passions.

Institute Webpage: www.iitmandi.ac.in

About PEC Chandigarh

Punjab Engineering College (PEC) having its roots in Lahore as Mugalpura Engineering College since 1921, moved to its present campus in 1953 as PEC affiliated to Panjab University. The institute became Deemed University in 2003 through a MHRD notification.

It is a Grant-in-Aid institution under the administration of the Union Territory of Chandigarh, Government of India. The institute has a 146 acres sprawling and pious campus and is a house of Chandigarh College of Architecture also. The academic and administrative processes are similar to IITs in the country. The institute's governance is through a vibrant Board of Governors. The institute is headed by a Director on 5 years tenure; a position, which is equivalent to Vice Chancellor of Universities.

The institute offers 8 Undergraduate B. Tech. programmes and 14 Postgraduate M. Tech. programmes in various disciplines of engineering and technology. After



becoming Deemed to be University, the institute has also started PhD programme in various disciplines of engineering, science, management, humanities and social sciences. UG and PG programmes are admitted through national-level examinations, namely JEE (Mains) and GATE respectively. There are 11 academic departments and 2 centres of excellence.

The faculty of academic departments and centres are involved in cutting-edge research and development works. The institute collaborates very closely with research organisations, industries, alumni and other academic institutions both in India and abroad, and has signed MoUs to pursue joint research in niche areas. The students graduating from this institute are placed in highly reputed companies with handsome salary packages.

With a history of 100 Years now, the institute has produced a number of alumni who have earned names and fame both for themselves and the institute.

Institute Webpage: <https://pec.ac.in/>

About PhD JDP

The Joint Degree Program (JDP) offers PhD students enrolled in both institutions the chance to collaborate on a multidisciplinary research project with faculty members and research teams from IIT Mandi and PEC Chandigarh, as well as to take advantage of the facilities and professional development opportunities offered by both institutions.

Important Guidelines for PhD Application

1. Please read the instructions given in the brochure carefully before filling up the applications.
2. Online Application form & Information brochure (Including the admission schedule along with the important dates) is available on the institute website at the following link: <https://alliance.iitmandi.ac.in/pecchandigarh/>
3. You are required to submit the application form ONLINE. No Downloadable Forms will be available after filling the form, you are advised to take a print of your application for your records.
4. For each project, candidate should submit a separate application with the application fee.
5. The application fee is as follows:

| Category | Amount in ₹ |
|--|-------------|
| General/EWS/OBC/OBC(NCL)/Transgender/Foreign Nationals | 200 |
| Women/SC/ST/PwD | 100 |



Note: One application fee is valid for the single application. The application fee is **NON-REFUNDABLE**.

6. OBC candidates may note that the limit for annual income is Rs. 8 Lakhs for determining the creamy layer among Other Backward Classes (OBCs) candidates. The OBC (NCL) certificate issued for the financial year 2026-27 by the Competent Authority in the prescribed format must be uploaded in the ONLINE application form.
7. Economically Weaker Sections (EWS) candidates may note that the limit for annual income is Rs. 8 Lakhs for determining the eligibility for benefit under Economically Weaker Sections (EWS) reservation. The EWS certificate issued by the Competent Authority in the prescribed format must be uploaded in the ONLINE application form and submitted at the time of admission.
8. Seats are reserved for Economically Weaker Sections (EWS) / Other Backward Class Non-Creamy Layer (OBC-NCL) / Schedules Caste (SC) / Scheduled Tribe (ST) and Person with Benchmark Disability (PwD) categories as per Government of India norms.
9. You should check Institute website for results / important announcements.
10. You should check emails sent to your email address provided in your application for all important communications and announcements if any.
11. Merely fulfilling eligibility criteria does not entitle a candidate to be called for the written test/interview. Decision of Institute authorities will be final. Admission is based on GATE / Written test / Interview performance in addition to general eligibility criterion, the applicants must also satisfy the eligibility criteria specified for the respective Departments / Centres / Schools / Interdisciplinary Groups.
12. Candidates, if called for written test/interview should show/bring with them (i) Photo ID Card, (ii) Printed copy of the application submitted online, (iii) Thesis / dissertation / report / publications (iv) copy of certificates and mark-sheets.

Important Dates for Admission

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|--|---|
| Starting date for filling Online Application | 30-June-2026 |
| Last date for filling Online Application | 10-July, 2026 (5:00PM) |
| Declaration of shortlisted candidates list | Will be Published on IIT Mandi and PEC Chandigarh website |
| Shortlisted candidates will be informed by email | |



Contact Details

In case of any query related to the Ph.D. Programme admission process you may contact respective school / Centre, the contact details are:

IIT Mandi

| Name of School/Centre | Email ID | Contact No. |
|--|--|---------------|
| School of Biosciences & Bioengineering | sbboffice@iitmandi.ac.in | 01905-267061 |
| School of Chemical Sciences | scsoffice@iitmandi.ac.in | 01905-267277 |
| School of Civil & Environmental Engineering | scene_admissions@iitmandi.ac.in | 01905-267180 |
| School of Computing and Electrical Engineering | sceoffice@iitmandi.ac.in | 01905-267071 |
| School of Humanities & Social Sciences | shssoffice@iitmandi.ac.in | 01905-267719 |
| School of Management | somoffice@iitmandi.ac.in | 01905-267119 |
| School of Mathematical & Statistical Sciences | smssoffice@iitmandi.ac.in | 01905-267929 |
| School of Mechanical and Materials Engineering | smmeadmissions@iitmandi.ac.in | 01905-267138 |
| School of Physical Sciences | spsoffice@iitmandi.ac.in | 01905-267812 |
| Indian Knowledge System and Mental Health Application (IKSMHA) | iksmha@iitmandi.ac.in | 01905-267786 |
| Centre Artificial Intelligence and Robotics (CAIR) | cairoffice@iitmandi.ac.in | ---- |
| Centre for Quantum Science and Technologies (CQST) | arvindthapliyal@iitmandi.ac.in | 01905-267899 |
| Centre for Human Computer Interaction (CHCI) | chcioffice@iitmandi.ac.in | 01905- 267187 |
| Centre for Climate Change and Disaster management | c3dar-office@iitmandi.ac.in | - |

PEC Chandigarh

| Name of School/Centre /Department | Email ID | Contact No. |
|---|--|---------------|
| Production & Industrial Engineering | headprod@pec.edu.in | 0172-2753281 |
| Mechanical Engineering | headmech@pec.edu.in | 0172-2753564 |
| Metallurgical & Materials Engineering | headmett@pec.edu.in | 0172-2753954 |
| Aerospace Engineering | headaer@pec.edu.in | 0172-2753880 |
| Electrical Engineering | headelec@pec.edu.in | 0172-2753451 |
| Electronics and Communication Engineering | headec@pec.edu.in | 0172-2753761 |
| Computer Science & Engineering | headcse@pec.edu.in | 0172-2753851 |
| Civil Engineering | headcivil@pec.edu.in | 0172-2753351 |
| Physics | sanjeev@pec.edu.in | 0172-2753260 |
| Chemistry | hkaur@pec.edu.in | 0172-2753257 |
| Mathematics | ashagoel@pec.edu.in | 0172-2753266 |
| Centre of Excellence in Data Science | sanjeevsofat@pec.edu.in | 0172-2753851 |
| Centre of Excellence in Industrial and Product Design | parveenkalra@pec.edu.in | 0172-2753286 |
| Workshop & Skill Development Center; CoE Siemens | headprod@pec.edu.in | 0172-2753281 |
| Centre of Management and Humanities (CMH) | anjusingla@pec.edu.in | - |
| Cyber Security Research Centre | divya@pec.edu.in | 0172-2753853 |
| Computer Centre | sbatish@pec.edu.in | 0172- 2753911 |



Academic Structure

Program management

A Doctoral Advisory Committee (DC) shall be set up for each JDP Scholar to support and monitor progress of the JDP Scholar throughout the candidature until the thesis has been submitted. The DC shall consist of the following members.

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| Chair/Head of the School/Department of the Home Institute or his/her nominee | Chairperson |
| Supervisor from the Home institute | Member |
| Supervisor from the Host institute | Member |
| Co-supervisor (s), if any with justification | Member (s) |
| Subject Expert from the Home Institution | Member |
| Additional members may be appointed to meet the requirements | Members |

Coursework Requirements

The JDP Scholar shall satisfy the minimum academic coursework requirements of the Home Institution. Additional courses may be taken when recommended by the DC. If a JDP scholar credits a course in one institution, the credits will be automatically transferred to the other institution and will be counted towards the degree requirement.

Joint Degree Program Structure

- Candidates have a **“Home Institution”** where they begin their studies and spend the majority of time. The expectation is that candidates will spend a minimum of 12 months at the other, **“Host Institution”** the timing and duration of this will depend on the program of research but in general will be in the second or third year of the degree. Travel to and study at the Host Institution will be subject to the usual requirements of the institute.
- As a condition of enrolment on the PhD JDP, candidates are required to:
 - Spend a minimum of one year* (two semesters) enrolled at each institution.

*Candidates registered as part-time PhD or under External Registration program need to spend the minimum residential requirement criteria of both the institute as mentioned in their ordinances and regulations.



- Undertake a program of progress monitoring and examination that meets the requirements of both institutions.
 - Comply with the rules, regulations, policies, codes and procedures of both institutions.
 - Write and submit a thesis for defense by oral examination at the home Institution.
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- Candidates for the PhD JDP will be enrolled in a PhD program in parallel at both institutions. The supervisory team will comprise academics from both institutions who will provide guidance and support throughout the doctoral program. Candidates will benefit from the research community, networking, and collaborations of the IIT Mandi – PEC Chandigarh. Through enrolment at both institutions, candidates will have access to services and support provided at IIT Mandi and PEC Chandigarh, including a variety of professional and personal development opportunities for researchers.
 - The primary supervisor shall be from the Home Institution. There must be a Joint supervisor from the Host Institution.
 - The PhD JDP includes a tailored program of progress monitoring to fulfil the requirements of both institutions. On successful completion of the program requirements, candidates will be awarded a PhD degree jointly by both the Institutions.

Admissions are currently open under the following research projects

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| 1 | Project Title. Next-Generation UPQC for Smart Distribution Systems with Renewable Integration | |
| | Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Tejinder Singh Saggu School/Dept.: Electrical Engineering | Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Pratim Kundu School/Dept.: School of Computing and Electrical Engineering |
| 2 | Project Title. Functionally graded PLA–graphene scaffold with controlled electrical conductivity for bone regeneration | |
| | Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Rahul O. Vaishya School/Dept.: Production & Industrial Engineering Dept | Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Deepak Patil School/Dept.: School of Mechanical & Materials Engineering, IIT Mandi |
| 3 | Project Title. Design, Engineering and Analysis of Aadvanced Material for Energy Harvesting Applications | |
| | Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Rahul O Vaishya School/Dept.: Production & Industrial Engineering | Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Rajeev Kumar School/Dept.: School of Mechanical and Materials Engineering |
| 4 | Project Title. Performance Evaluation and Optimization of Asphalt Mixture incorporating High Reclaimed Asphalt Pavement (RAP) content using Rejuvenators under Indian Climatic Conditions | |
| | Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Umesh Sharma School/Dept.: Civil Engineering Department | Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Anshu Bamney School/Dept.: Civil Engineering Department |
| 5 | Project Title. Performance Enhancement and Reliable Operation of Grid-Connected Photovoltaic Systems under Weak Grid Conditions | |
| | Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Ajay Kumar School/Dept.: Electrical Engineering Department | Host Institute: Indian Institute of Technology, Mandi Supervisor: Prof. Dipankar Deb School/Dept.: Centre for AI and Robotics |
| | Project Title. Direct Immersion Cooling of Micro Electronics | |

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| 6 | <p>Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Lokesh School/Dept.: Mechanical Engineering Department</p> | <p>Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Parmod Kumar School/Dept.: School of Mechanical and Materials Engineering</p> |
| 7 | <p>Project Title. Cyber Resilient Real Time controller for Grid Connected Photovoltaic Systems</p> | |
| | <p>Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Ajay Kumar School/Dept.: Electrical Engineering</p> | <p>Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Pratim Kundu School/Dept.: School of Computing and Electrical Engineering</p> |
| 8 | <p>Project Title. Design and development of highly efficient, stable and self-powered photodetectors using hybrid perovskite materials</p> | |
| | <p>Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Prof. Arun Kumar Singh School/Dept.: Dept. of Electronics and Communication Engineering</p> | <p>Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Ranbir Singh School/Dept.: School of Mechanical and Materials Engineering</p> |
| 9 | <p>Project Title. Entrepreneurship and Finance</p> | |
| | <p>Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Anju Singla School/Dept.: Centre of Management and Humanities (CMH)</p> | <p>Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Puran Singh School/Dept.: School of Management</p> |
| 10 | <p>Project Title. Development of Mg-based composites for body implant applications</p> | |
| | <p>Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Mohinder Pal Garg, Dr. Jimmy Karloopia School/Dept.: Mechanical Engineering Department, Production and Industrial Engineering Department</p> | <p>Host Institute: Indian Institute of Technology, Mandi Supervisor: Prof. Mohammad Talha School/Dept.: School of Mechanical and Materials Engineering</p> |
| 11 | <p>Project Title. Inverter Dominated Electric Grid Stability,</p> | |
| | <p>Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: DR MANOHAR SINGH School/Dept.: Electrical Engineering</p> | <p>Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Pratim Kundu School/Dept.: School of Computing and Electrical Engineering</p> |

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| 12 | Project Title. 4D printing of oxygen-generating polymer composites for bone tissue engineering with enhanced angiogenesis and osseointegration | |
| | Home Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Jasvinder Singh School/Dept.: Production and Industrial Engineering Department | Host Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Sumit Murab School/Dept.: School of Biosciences and Bioengineering |
| 13 | Project Title. 3D printed composites for vibration energy harvesting | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Vishal Singh Chauhan School/Dept.: IIT Mandi | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Gurpreet Singh School/Dept.: Department of Production & Industrial Engineering |
| 14 | Project Title. Optimization of Laser Surface Textures for Friction Reduction and Wear Resistance application | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Prof Rajeev Kumar School/Dept.: School of Mechanical and Materials Engineering | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Prof Ravinderjit Singh Walia School/Dept.: Department of Production and Industrial Engineering |
| 15 | Project Title. Nature inspired Laser Surface Texturing | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Prof Rahul Vaish School/Dept.: School of Mechanical and Materials Engineering | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Prof Ravinderjit Singh Walia School/Dept.: Department of Production and Industrial Engineering |
| 16 | Project Title. Materials for environmental applications | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr Satvasheel Ramesh Powar School/Dept.: Mechanical and Material Engineering | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr Sandeep Kumar School/Dept.: Physics |
| 17 | Project Title. Influence of e-waste derived reinforcements on the mechanical and abrasive wear behaviour of aluminum matrix composites. | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Neha Shukla School/Dept.: School of Mechanical and Materials Engineering | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Jimmy Karloopia School/Dept.: Production and Industrial Engineering Department |

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| 18 | Project Title. Fabrication and Tribological Performance of Functionally Graded Self-Lubricating metal Matrix Composites. | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Sunny Zafar School/Dept.: School of Mechanical and Materials Engineering | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Jimmy Karloopia School/Dept.: Production and Industrial Engineering Department |
| 19 | Project Title. Development of High-Entropy Oxides Ceramics for High-Frequency Communication Applications | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Prof. Rahul Vaish School/Dept.: School of Mechanical & Materials Engineering | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Prof. Arun Kumar Singh School/Dept.: Dept. of Electronics and Communication Engineering |
| 20 | Project Title. High-Performance Self-Powered Photodetectors Using Hybrid Perovskites | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Ranbir Singh School/Dept.: School of Mechanical and Materials Engineering | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Prof. Arun Kumar Singh School/Dept.: Dept. of Electronics and Communication Engineering |
| 21 | Project Title. Adaptive Regenerative MIMO Antenna Systems for Simultaneous Wireless Communication and Energy Harvesting | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Dipankar Deb School/Dept.: Centre for Artificial Intelligence and Robotics | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Gourab Das School/Dept.: Dept. of Electronics and Communication Engineering |
| 22 | Project Title. 3D Digital Documentation and Assessment of Selected Religious and Cultural Heritage Sites in North India | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Dericks P Shukla School/Dept.: SCENE | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Har Amrit Singh Sandhu School/Dept.: Civil Engineering |

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| 23 | Project Title. Powder Metallurgy–Based Development of Nano-Hydroxyapatite/Silicon Oxycarbide (nano-HA/SiOC) Bio-Ceramic Composites for High-Performance Orthopedic Implants | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Deepak Deelip Patil School/Dept.: School of Mechanical and Materials Engineering, IIT Mand | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Kaustubh R. Kambale School/Dept.: Department of Metallurgical and Materials Engineering, Punjab Engineering College |
| 24 | Project Title. Recovery of critical elements from the mobile phone display screen | |
| | Home Institute: Indian Institute of Technology, Mandi Supervisor: Dr. Neha Shukla School/Dept.: SMME | Host Institute: Punjab Engineering College (PEC), Chandigarh Supervisor: Dr. Kiran Lata Bhaskar School/Dept.: Metallurgical and Materials Engineering Department |

General Qualifications

In the present call, the students for the PhD JDP will be admitted only in the Regular category. An eligible student in this category works full-time and receives assistantship from the Institute.

The candidate should fulfil the minimum eligibility criteria of the Home institution of the respective projects as mentioned in the below link.

IIT Mandi : <https://cloud.iitmandi.ac.in/f/ebee554e7294407399ce/>

PEC Chandigarh: https://pec.ac.in/sites/default/files/2023-03/phd_2022-23.pdf

In addition to general eligibility criterion, the applicants must also satisfy the eligibility criteria specified for the respective Projects/Departments / Centres / Schools / Interdisciplinary Groups. Over and above the general eligibility criteria for admission, candidates need to satisfy additional criteria for financial support / fellowship, as specified under specific admission categories.

The final selection process to Ph.D. JDP programme for any project will be through written test and/or interview.

Application and Admissions

The admissions process will be managed by the IIT Mandi - PEC Chandigarh Joint Admissions Sub-committee (JASC) constituted at the School/Department/Centre level and according to each Institution's admissions procedure. Candidates must meet the admissions requirements of both institutions. The eligibility criteria for enrolling in a joint PhD program



will be same as that of a regular PhD program/ERP of the individual institute. The details of the same can be found in the PhD ordinance of the individual institute.

- IIT Mandi https://www.iitmandi.ac.in/pdf/ordinances/Ordinances_phd_mtech.pdf
- PEC Chandigarh https://pec.ac.in/sites/default/files/2023-03/phd_2022-23.pdf

All applicants will be expected to apply through an online admissions portal.

Fees, Scholarships and Funding

- The JDP Scholar shall pay tuition fees only to their Home Institution throughout the duration of the JDP including the duration of study at the Partner Institution as per its fee structure.
- Unless otherwise indicated, candidates who wish to be admitted onto the PhD JDP are entitled to receive fellowship meeting the eligibility criteria. The cost of fellowship will be borne by the Home Institute even during the candidate's stay in the Host Institute. No tuition fee will be charged by the host institution. However, the student needs to bear the boarding and lodging charges. Scholarships are awarded based on merit, and the value and conditions of any scholarship awarded will be in accordance with the terms and conditions of the awarding institution.
- Regardless of the scholarship awarded, students on the joint PhD program will be personally responsible for the following expenses unless otherwise advised:
 - Incidental fees and charges at either institution
 - Accommodation and living expenses at either institution
 - All personal expenses and non-compulsory additional fees at the host institution
 - All debts incurred by candidates during their stay at either institution
 - Any other debts incurred by candidates during the Joint PhD Program
 - Further the grants in respect of attending conferences will be provided only by the home institute.

Fees details:

The selected candidate needs to pay the fee only to the Home institution and the details about the fee structure can be found below:

- IIT Mandi <https://academics.iitmandi.ac.in/fees>
- PEC Chandigarh <https://pec.ac.in/>
