# Information Brochure

# PhD Admissions

## Academic Year 2019-20




## National Institute of Technology Hamirpur

## Hamirpur (HP) – 177 005

***http://www.nith.ac.in***

## 1. Preamble

Located in Hamirpur district of Himachal Pradesh, NIT Hamirpur enjoys a really scenic environment and pleasant weather. Established in the year 1986, as REC Hamirpur, NIT Hamirpur has been declared as the Institute of National Importance under the Act of Parliament, 2007.

At present, NIT Hamirpur offers four years B.Tech. degree in Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering, Chemical Engineering and Material Science & Engineering, and a five years B.Arch degree. The Institute has also introduced five years Dual Degree leading to Bachelor and Master of Technology in Computer Science & Engineering and Electronics & Communication Engineering. The Institute also offers M.Tech./M.Arch./M.Sc./MBA programmes with various specializations.

In 2006, Ph.D. programme was started in all disciplines of engineering, sciences and humanities. Since then many candidates have been registered for pursuing their Ph.D. in this Institute. Thus, NIT Hamirpur is making all efforts to move ahead towards the national goal of producing more and more number of quality postgraduates and doctorates, who can join as faculty members in various institutions throughout the country.

This Admission Notice is to invite online applications for Ph.D. admissions (Full Time/Part Time) in Engineering, Architecture, Sciences, Management and Humanities.

## 2. Categories of Ph.D. Programmes

The Institute shall admit Ph.D. candidates in following categories of Ph.D. programmes:

### A. Full Time Research Scholars

#### i. Fellowship Research Scholars (Category Code: FT01)

These scholars shall be eligible for financial assistance in the form of fellowship at the approved rates and guidelines as notified by MHRD from time to time. The fellowship shall be awarded to the students of this category on a Semester–to-Semester basis on the recommendation of SRC (Student Research Committee) through Convener DPGC (Department Post Graduate Committee). The renewal of the assistantship is dependent on the satisfactory academic performance of the scholar.

#### ii. Self-financed Research Scholars (Category Code: FT02)

These scholars shall be supporting themselves from their own funding arrangements.

#### iii. Sponsored Research Scholars (Category Code: FT03)

The admission process of doctoral students of this category would be as per the guidelines issued by the related coordinating agencies. These scholars shall be sponsored by Government/Semi-Government organizations/Institutions. Such scholars receive financial support from AICTE under QIP scheme or from Government/Semi-Government institutions/organizations under study leave. Such a candidate must be sponsored by the current employer and must have been in employment with the sponsoring organization for at least two years at the time of admission. Candidates in service are to be relieved on study leave or extraordinary leave from the organization for full-time research work at NIT Hamirpur and must furnish a sponsorship along with No Objection Certificate from the current employer.

**B. Part-Time Research Scholars**

**i. Institute Part Time Research Scholars (Category Code: PT01)**

This category refers to students who are regular employees of the Institute or who are working on various sponsored projects undertaken by the Institute. They are expected to work for their Ph.D. programme while performing their normal duties.

**ii. External Part Time Research Scholars (Category Code: PT02)**

This category comprises of Ph.D. scholars who are working professionals and are sponsored by their respective organizations. While working at their respective organizations, they can pursue the Ph.D. work as a student of Institute. Such Ph.D. research scholars, after completion of residential requirement (completion of course work and minimum stay of one year in the Institute campus), may be allowed to join his/her parent organization, where he/she will be doing the research work while serving the parent organization and would be allowed to continue as Part Time student.

## 3. Departments/Centres Offering Ph.D. Admissions

The Ph.D. programmes shall be offered in the following Departments/Centres in various areas of research specialization:

| SNo | Department/Centre | Area of Research |
|---|---|---|
| 1. | Architecture | Architecture, Planning |
| 2. | Civil Engineering | Water Resources, Environment Engineering, Remote Sensing, Geotechnical Engineering & Geology, Structural & Transportation Engineering |
| 3. | Computer Science & Engineering | Networking, Artificial Intelligence, Information Security |
| 4. | Electronics & Communication Engineering | Communication and Networks, VLSI Design, RF and Microwave |
| 5. | Electrical Engineering | Power System, Signal Processing & Control, Instrumentation, Power Electronics & Drives, High Voltage Engineering |
| 6. | Mechanical Engineering | Design, Thermal, Production & Industrial |
| 7. | Chemical Engineering | Computational Fluid Dynamics, Electrochemical Engineering, Biochemical & Bioprocess Engineering |
| 8. | Centre for Energy & Environment Engineering | Solar Thermal & Solar Photovoltaic, Bio-Energy & Bio Fuel, Environmental Engineering |
| 9. | Centre for Material Science & Engineering | Polymer Matrix Composites/Nanocomposites, Physical/Mechanical Metallurgy, Functional Oxide Materials (Ceramic/Thin Films/Nanoparticles) |
| 10. | Chemistry | Organic Chemistry, Inorganic Chemistry, Physical Chemistry |
| 11. | Physics | Condensed Matter Physics, Nuclear Physics, High Energy Physics |
| 12. | Mathematics | Pure Mathematics, Applied Mathematics, Statistics |
| 13. | Management & Humanities | Management, Economics, English, Social Science |

## 4. Eligibility for Admission

**A.** Admission to Ph.D. Programme in various Departments/Centres shall be made in accordance with the educational qualifications mentioned as follows:

**(a) Ph.D in Engineering/Architecture/Planning (Including Centres)**

The applicant must have passed Bachelor Degree and Master Degree in Engineering/Technology/ Architecture/Planning in the appropriate discipline. Open/EWS/OBC candidates must have secured minimum CGPI of 6.5 on a 10-point scale (or equivalent) or 60% marks in Master Degree. Whereas, in case of SC/ST candidates, a minimum CGPI of 6.0 on a 10-point scale (or equivalent) or 55% marks in Master Degree will be applicable.

**OR**

The applicant must have passed Bachelor Degree in Engineering/Technology/Architecture/Planning in the appropriate discipline with minimum CGPI of 8.5 on a 10-point scale (or equivalent) or 80% marks in case of Open/EWS/OBC category. Whereas, in case of SC/ST candidates, a minimum CGPI of 8.0 on a 10-point scale (or equivalent) or 75% marks in Bachelor Degree will be applicable.

**(b) Ph.D. in Sciences, Humanities and Social Sciences**

The candidate must have passed Master Degree in relevant subject with minimum CGPI of 6.5 on a 10-point scale (or equivalent) or 60% marks in case of Open/EWS/OBC category. Whereas, in case of SC/ST candidates, minimum CGPI of 6.0 on a 10-point scale (or equivalent) or 55% marks in Master Degree will be applicable.

**(c) Ph.D. in Management**

The candidate must have passed Master Degree in Management i.e. MBA with minimum CGPI of 6.5 on a 10-point scale (or equivalent) or 60% marks in case of Open/EWS/OBC category. Whereas, in case of SC/ST candidates, minimum CGPI of 6.0 on a 10-point scale (or equivalent) or 55% marks in Master Degree in Management will be applicable.

**OR**

Qualified Professionals/Executives with Bachelor Degree in Engineering and working with corporate houses, and having five years professional experience may be considered. Such candidates must have minimum CGPI of 8.0 on a 10-point scale (or equivalent) or 75% marks in Bachelor Degree in case of Open/EWS/OBC category. Whereas, in case of SC/ST candidates, minimum CGPI of 7.5 on a 10-point scale (or equivalent) or 70% marks in Bachelor Degree will be applicable.

**(d) Additional Requirements for Sponsored Candidates (Category Code: FT03 & PT02)**

A candidate who fulfills the eligibility criteria mentioned above and is sponsored by his/her employer may be considered for admission provided he/she fulfills the following conditions:

i. The sponsored candidate must attach the relevant sponsorship certificate on letterhead of the institution/organization/industry along with the application.
ii. The sponsoring organization must be a reputed medium or large scale Government organization/private industry/AICTE recognized technical institution.
iii. The sponsored candidate must have been in regular service of the sponsoring organization for at least two years on **31.05.2019**. The sponsoring organization must specifically undertake to relieve him/her to pursue the Ph.D. programme for its full duration as per the admission category requirement. Such candidates are required to submit No Objection Certificate from their employer/organization.

**B.** In addition to the requirements specified in **4(A),** the applicant must have qualified the National Eligibility Test; UGC-NET/UGC-CSIR NET or GATE examination.

## 5. Application Procedure

- The applicants have to apply online through a link available at Institute website **nith.ac.in**. No other means of application shall be allowed. A candidate has to first register with valid email Id and mobile number.
- Application processing fee of `1200 for Open/EWS/OBC and `600 for SC/ST per application is to be paid online through SBI Collect (https://www.onlinesbi.com/sbicollect) as per the procedure mentioned (Refer to "Guidelines for Payment of Ph.D. Application Fee Through SBI Collect"). If a candidate is applying in more than one Department/Centre, separate application is to be submitted and processing fee is to be paid for each application.
- Before starting the online filling process, the candidates must have soft copy of recent passport size photograph and scanned copy of signature (both in JPEG format) and must have paid application fee online through SBI Collect.
- The applicant shall have to take the print of the filled in online form and paste his/her passport size photograph on it and post it alongwith other documents (mentioned in Section 7) to **Dean (Academic), NIT Hamirpur, HP-177005,** so as to reach on or before the last date (please refer to schedule in Section 10). The envelope must be super-scribed as "Application for PhD Admission in Department/Centre _____ for Academic Year 2019-20".

## 6. Admission Procedure

The admission to the Ph.D. programme shall be carried out as per the following procedure:

(a) The applications shall be scrutinized by the Departmental Selection Committee (DSC) of concerned Department/Centre. To shortlist the candidates to a manageable number, the Department/Centre may adopt separate criteria based on good academic record, reputation of the institute from where UG/PG degrees are obtained, etc.

(b) The list of shortlisted candidates found eligible for presentation and interview shall be displayed on Institute website by Dean (Academic) as per schedule mentioned in Section 10 of this Information Brochure.

(c) The shortlisted candidates are required to appear for presentation and interview on **04/05.07.2019** before the duly constituted Departmental Selection Committee (DSC) of respective Department/Centre. All the shortlisted candidates are required to report in the concerned Department/Centre on **04.07.2019 at 9.00AM**. The presentation should be brief and clear (around 5-10 minutes) highlighting the basic idea of proposed research. The presentation must broadly include:

   i. *The topic/subject of the proposed research work.*
   ii. *An outline containing introduction to the subject, international/national importance, broad objectives, scope and methodology of research work with relevant literature review.*

(d) The final recommendations of the candidates for admission shall be made by DSC based on performance of the candidates in presentation and interview.

(e) On approval by the Chairman, Senate, the concerned HoD/HoC will issue admission letters to the selected candidates, who will be required to accept the offer of admission by depositing prescribed fee by the specified deadline.

(f) In case, a candidate does not pay the prescribed fee by the specified deadline, the offer of admission may stand withdrawn automatically.

(g) The selected candidates will have to register for the course work in consultation with the Supervisor/Convener DPGC/HoD/HoC as the case may be as per the schedule of Academic Calendar.

## 7. Documents Required

The candidates are required to send following documents (self attested) alongwith application form. They are also required to produce all the documents in original at the time of presentation and interview.

| SNo | Details of Documents/Certificates |
|---|---|
| 1. | Application Form Generated Through Online Submission (Paste Passport Size Photograph on the Application) [**Original**] |
| 2. | Photo ID Proof as per Government of India Norms |
| 3. | GATE/NET Certificate/Score Card |
| 4. | Mark Sheet/Certificate of Class X (High School) |
| 5. | Mark Sheet of Class XII |
| 6. | Grade/Mark Sheets of Qualifying Degree for All Semesters/Years |
| 7. | Degree/Provisional Certificate |
| 8. | Course Completion Certificate (in case the Degree is not awarded) |
| 9. | No Objection Certificate from current employer (for Sponsored Candidates) |
| 10. | Sponsorship Certificate from current employer (for Sponsored Candidates) |
| 11. | Proof of Payment of Processing Fee (deposited through SBI Collect) |
| 12. | Valid Category Certificate (OBC/SC/ST) [OBC-NCL Certificate must be issued **on or after April 1, 2019**] |
| 13. | Undertaking in Required Format (for OBC-NCL Candidates Only) |
| 14. | Certificate of Persons with Disability (for PwD Candidates Only) |
| 15. | Income and Asset Certificate Issued by Competent Authority (for EWS Candidates Only) [must be issued **on or after April 1, 2019**] |

In addition to the above documents/certificates, the selected candidate shall also be required to submit the following documents/certificates at the time of registration:

| SNo | | Details of Documents/Certificates |
|---|---|---|
| 16. | | Four Number of Colored Photographs |
| 17. | | Migration Certificate **(Original)** |
| 18. | | Conduct/Character Certificate from Head of Institution Last Attended |
| 19. | | **Medical Fitness Certificate** issued by the Medical Officer, NIT Hamirpur Health Centre or any Government Civil Hospital **(Original)** |
| 20. | | **An Undertaking** by the Student -Institutional **(Original)** |
| 21. | | **Affidavits** |
| 22. | i. | **Affidavit** (on stamp paper of `10 denomination) for giving reason for study gap (if any) duly signed by Oath Commissioner/ Notary Public/Executive Magistrate **(Original)** |
| | ii. | An Affidavit by the Student [Anti-ragging Measures at http://www.antiragging.in/] **(Original)** |
| | iii. | An Affidavit by Parent/Guardian [Anti-ragging Measures at http://www.antiragging.in/] **(Original)** |
| | | **Note:** The hostellers have to produce two sets of above affidavits (ii & iii), out of which one will be submitted to the Hostel Authorities. |

In case, result of qualifying degree is awaited, provisional admission is permitted to a candidate subject to meeting above minimum qualifying degree requirements latest by **19.07.2019**. A certificate from the competent authority of current institute to that effect should be submitted at the time of presentation/interview.

## 8. Fee Structure

The selected candidates have to deposit the semester fee as per following details:

| Programme | Fee structure (`) | | Remarks |
|---|---|---|---|
| | Hosteller | Day scholar | |
| Ph.D. (Full Time) | 31400+25900# | 31400 | #The hostel dues are to be deposited by all hostlers in respective hostel. The Institute |

| | | | |
|---|---|---|---|
| Ph.D. (Part Time) | 16950+25900# | 16950 | has only limited hostel accommodation and shall be provided subject to the availability. |
| Ph.D. (NIT Faculty/ Staff/Project Staff) | 5600+25900# | 5600 | |

Once the candidate has accepted the admission offer by paying the requisite Institution fee, thereafter he/she will be governed by Institute refund policy. If a student is removed or he/she withdraws/leaves the Institute after admission without completing the entire programme, all fee paid including the security deposit will be forfeited by the Institute.

## 9. Seat Matrix

The number of seats depends upon the number of available research guides in the Institute, vacancies available with the guide and research infrastructure in the concerned Department/Centre. The admission of candidates to Ph.D. programme depends on the expertise available in a Department/Centre and the willingness of the candidate to work in the corresponding research areas. The following table shows maximum number of seats available in various Departments/Centres for the Academic Year 2019-20, however, it is not obligatory for the Institute or concerned Department/Centre to fill all the seats mentioned in this matrix.

The reservations will be as per the reservation policy of the Government of India notified from time to time.

| SNo | Department/Centre | Ph.D. Seats (Maximum) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHRD Fellowship | | | | | | Others | | | | | |
| | | Total | OP | EWS | SC | ST | OBC | Total | OP | EWS | SC | ST | OBC |
| 1. | Architecture | **6** | 2 | 1 | 1 | 0 | 2 | **16** | 7 | 2 | 2 | 1 | 4 |
| 2. | Civil Engineering | **15** | 6 | 2 | 2 | 1 | 4 | **10** | 4 | 1 | 1 | 1 | 3 |
| 3. | Computer Science & Engineering | **11** | 4 | 1 | 2 | 1 | 3 | **9** | 4 | 1 | 1 | 1 | 2 |
| 4. | Electronics & Communication Engineering | **15** | 6 | 2 | 2 | 1 | 4 | **17** | 7 | 2 | 2 | 1 | 5 |
| 5. | Electrical Engineering | **15** | 6 | 2 | 2 | 1 | 4 | **7** | 3 | 0 | 1 | 1 | 2 |
| 6. | Mechanical Engineering | **18** | 7 | 2 | 3 | 1 | 5 | **13** | 5 | 1 | 2 | 1 | 4 |
| 7. | Chemical Engineering | **5** | 3 | 0 | 1 | 0 | 1 | **0** | 0 | 0 | 0 | 0 | 0 |
| 8. | Centre for Energy & Environment Engineering | **3** | 1 | 0 | 0 | 1 | 1 | **4** | 2 | 0 | 1 | 0 | 1 |
| 9. | Centre for Material Science & Engineering | **5** | 3 | 0 | 1 | 0 | 1 | **0** | 0 | 0 | 0 | 0 | 0 |
| 10. | Chemistry | **6** | 2 | 0 | 1 | 1 | 2 | **4** | 1 | 1 | 1 | 0 | 1 |
| 11. | Physics | **5** | 2 | 1 | 1 | 0 | 1 | **3** | 1 | 0 | 1 | 0 | 1 |
| 12. | Mathematics | **7** | 3 | 0 | 1 | 1 | 2 | **8** | 3 | 1 | 1 | 1 | 2 |
| 13. | Management & Humanities | **8** | 3 | 1 | 1 | 1 | 2 | **11** | 4 | 1 | 2 | 1 | 3 |
| **Total** | | **119** | **48** | **12** | **18** | **9** | **32** | **102** | **41** | **10** | **15** | **8** | **28** |

Horizontal Reservation of 5% to PwD Candidates in Each Category (OP, EWS, SC, ST, OBC) shall be applicable.

## 10. Important Dates (Tentative)

| | |
|---|---|
| Start of online application process | 15.05.2019 |
| Closing date of online application | 07.06.2019 |
| Last date of receiving hard copy of application alongwith other documents in the office of Dean (Academic), NIT Hamirpur | 14.06.2019 |
| Displaying list of shortlisted candidates (for presentation and interview) on Institute website (nith.ac.in) | 27.06.2019 |
| Presentation/interview of the candidates in respective Department/Centre | 04.07.2019 (09.00AM onwards) |
| Declaration of result and issuing of Admission Letters | 11.07.2019 |
| Fee deposit by selected candidates | 19.07.2019 |

Dean (Academic)
NIT Hamirpur (HP)

# Important Notes:

1. Separate application forms must be submitted for programmes offered by different Departments/Centres alongwith prescribed processing fee.
2. The candidate should solemnly and sincerely affirm that the statement made and information furnished by him/her in the application form is true and correct and no information has been concealed. However, if later on any information furnished is found to be fraudulent, incorrect or untrue, he/she would be liable to appropriate action and he/she has to forego his/her seat.
3. All declarations/results will be displayed on Institute website (http://www.nith.ac.in/) only. No separate letter/email/intimation will be issued.
4. If any candidate fails to submit the required certificates/documents by 15.09.2019, his/her provisional admission/registration in Ph.D. programme shall stand automatically cancelled.
5. All dates mentioned above are tentative and subject to change at any stage by the competent authority.
6. All the candidates interested in seeking admission are advised to visit the Institute website (http://www.nith.ac.in/) regularly for updates.
7. All Ph.D. admitted candidates at NIT Hamirpur will be governed by the rules and regulations decided by the competent authority from time to time.
8. All matters of dispute will be subjected to legal jurisdiction of the courts at Hamirpur/Shimla only.

# Annexures

| Important Phone Numbers | | |
|---|---|---|
| **Departments/Centres** | | |
| **Department/Centre** | **Office** (01972) | **Head of Department** (01972) |
| Civil Engineering | 254301 | 254300/254340 |
| Computer Science & Engineering | 254401 | 254400/254424 |
| Electrical Engineering | 254501 | 254500/254530 |
| Electronics & Communication Engineering | 254601 | 254600/254630 |
| Mechanical Engineering | 254702 | 254700/254724 |
| Chemical Engineering | 254102 | 254726 |
| Architecture | 254901 | 254914/254900 |
| Energy & Environment Engineering | 254701 | 254728 |
| Material Science & Engineering | 254380 | 254382 |
| Physics | 254110 | 254136 |
| Chemistry | 254102 | 254156 |
| Mathematics | 254101 | 254108 |
| Management & Humanities | 254101/254102 | 254132 |
| **Academic Section** | | |
| Dealing Assistant | 254018 | |
| Assistant Registrar | 254575 | |
| Deputy Registrar | 254054 | |
| Associate Dean (Admission and Registration) | 254430 | |
| Dean (Academic) | 254006 | |

# Guidelines for Payment of Ph.D. Application Fee Through SBI Collect

1. Goto **www.onlinesbi.com** and select option **State Bank Collect**
2. Accept terms & conditions and **Proceed** further
3. Select State of Corporate/Institute: **Himachal Pradesh** and Type of Corporate/Institute: **Educational Institute**
4. Select Educational Institute Name: **NIT Hamirpur** and click on **Submit**
5. Select Payment Gateway **Ph.D. Entrance Exam Fees Only** and fill the details to proceed further

**Note:** Print the Receipt for further record.

## CERTIFICATE FROM THE HEAD OF THE SPONSORING ORGANIZATION

*(Applicable for Sponsored Candidates seeking registration in Ph.D. programme - Full Time)*

Mr/Ms _____ who is serving as _____ in this Industry/Organization/Institute, is hereby sponsored for Ph.D. (Full Time) programme in (Name of the Branch/Department/ Centre) _____ for the academic year 2019-20. In case of his/her selection for the course he/she will be relieved for the complete duration of course.

The details of the organization and the candidate are as under:

| | | |
|---|---|---|
| Type of Organization (Govt./ Private etc.) | : | |
| Name of Organization | : | |
| Present Post | : | |
| Pay scale of present post | : | |
| Work Experience | : | ☐ Years ☐ Months |
| Working Since | : | Date \| Month \| Year |

**Date:**

**Signature : .....**

**Name : .....**

**Designation : .....**

**Seal**

**Office : .....**

## CERTIFICATE FROM THE HEAD OF THE SPONSORING ORGANIZATION

*(Applicable for Sponsored Candidates seeking registration in Ph.D. programme - Part-time)*

Mr/Ms _____ who is serving as _____ in this Industry/Organization/Institute, is hereby sponsored for Ph.D. (Part-time/Off Campus) programme in (Name of the Branch/ Department/Centre) _____ for the academic year 2019-20. In case of his/her selection for the course he/she will be relieved for minimum stay of one year to enable the candidate to complete the **Course Work or any other requirement** as per the academic norms of NIT Hamirpur. It is further stated that facilities are available at this Industry/Organization/Institute to carryout the research by the above said candidate and these facilities shall be made available to him/her during his/her Ph.D.

The details of the organization and the candidate are as under:

| | | |
|---|---|---|
| Type of Organization (Govt./ Private etc.) | : | |
| Name of Organization | : | |
| Present Post | : | |
| Pay scale of present post | : | |
| Work Experience | : | ☐ Years ☐ Months |
| Working Since | : | Date: ☐☐ Month: ☐☐ Year: ☐☐☐☐ |

**Date:**

**Signature : .....**

**Name : .....**

**Designation : .....**

**Seal**

**Office : .....**