राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर
हमीरपुर (हि.प्र.) – 177 005 (भारत)
[भारत सरकार शिक्षा मंत्रालय के तहत एक राष्ट्रीय महत्व का संस्थान]
NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR
HAMIRPUR (H.P.) - 177 005 (INDIA)
[An Institute of National Importance under Ministry of Education (Shiksha Mantralaya)]

प्रशिक्षण एवं नियुक्ति कार्यालय

{OFFICE OF TRAINING & PLACEMENT}

No. NIT/HMR/TPO/Summer Training/Internship/2025/3717 Date: 17-03-2025

Internship Opportunities @ NIT Hamirpur (H.P)

National Institute of Technology Hamirpur invites applications from the students studying in IITs/NITs/State Technical Universities/Other CFTIs, to do Summer Training/Internship in the different Departments/Centres of the Institute. There are various projects under which the candidates can apply.

The applicant must submit a brief proposal on the project area under which he/she intends to do internship/training in NIT Hamirpur (H.P). For more details, please go through the relevant **Guidelines available on Institute website**. The candidate can fill the **"UG Training/Internship Request Form"** along with **"Undertaking Form"** and submit it through the Google form link/QR Code provided below.

All the interested students can apply on or before **April 20th 2025 (05:00 PM)**

For more details, contact 01972-254591 and tpo.office@nith.ac.in.

Google form link/QR Code

https://docs.google.com/forms/d/e/1FAIpQLSfUeL3tFU6C_hb99BYwI0C3P06Jq7jGejBVREP6WGsT9FTnFg/viewform?usp=header

17.3.25

Dr. Somesh Kumar Sharma
Training & Placement Officer
NIT Hamirpur (H.P)

प्रशिक्षण एवं नियुक्ति अधिकारी
Training & Placement Officer
राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर (हि0प्र0)
National Institute of Technology Hamirpur (H.P.)

LIST OF PROJECTS FOR SUMMER TRAINING/INTERNSHIP DURING 2025 AT NIT HAMIRPUR

LIST OF PROJECTS FOR SUMMER TRAINING/INTERNSHIP 2025 AT NIT HAMIRPUR			
Sr No.	**Department**	**Project Title**	**Name of Faculty Mentor**
1.	**Architecture**	1. Transformations in vernacular architecture of Himachal Pradesh. 2. Appropriate built environment in Hill Towns of India.	**Dr. Ashwani Kumar** Associate Prof. & Head
		1. Assessment of heritage indicators- case of residential buildings. 2. Development of model for garbage collection in NITH Campus.	**Dr. Amanjeet Kaur** Asstt. Professor
2.	**Computer Science & Engineering**	1. Deep Learning based Multimodal Biomedical Data Fusion 2. Text-to-Image Synthesis Using Conditional GANs 3. Energy Harvesting Techniques for Prolonging WSN Lifetime 4. Deep Transfer Learning for IoT Attack Detection	**Dr. Robin Singh Bhadoria** Asstt. Professor
		Distributed Systems, Artificial Intelligence, Soft Computing, Machine Learning	**Dr. Dharmendra Prasad Mahato** Asstt. Professor
		ML/DL for PCoS prediction & detection, Federated Learning for secure communication in IoT networks	**Dr. Nitin Gupta** Asstt. Professor
		ML/DL , NLP, AI	**Dr Pardeep Singh** Asstt. Professor
		Internet of Things, Service-Oriented Architecture, Wireless Sensor Network, Machine Learning	**Dr Siddhartha Chauhan** Asstt. Professor
3.	Civil Engineering	1. Impact of Climate Change on Water Availablity in a Watershed. 2. Flood Risk Mapping and Mitigation Strategies in Urban Areas. 3. Assessment of Groundwater Recharge Potential Using GIS and Remote Sensing.	**Dr. Ray Singh Meena** Asstt. Professor (Gr-I)
4.	Chemistry	1. Design and development of sensors.	**Dr. K S Gosh**
		1. Natural Product Mimics and their application. 2. Quadruplex blinder- spectrophotometric studies.	**Dr. Pamita Awasthi**
		1. Designing and synthesis of novel metallodrugs and their biological evaluation. 2. Transition metal complexes and their electrochemical characterization.	**Dr. Raj Kaushal**
		1. Two dimensional nanomaterial's. 2. Green synthesis of nanomaterial's. 3. Metal oxide based nanocomposite materials.	**Dr. Jai Prakash**
		1. Photophysical Study. 2. Protein- DNA interation.	**Dr. Jagannath Kuchlyan**

5.	Chemical Engineering	1. Removal of Pollutants from Wastewater using Natural Adsorbent. 2. Optimization of galacto-oligosaccharide production by RSM.	**Dr. Tapas Palai** Associate Professor
		1. Gas Explosion dynamics using Novel solver PDRFORM. 2. Waste to value: CFD Modelling of biomass/Plastic particles in a horizontal or vertical set up. 3. 1-D Kinetic Modelling to design novel reactor.	**Dr. Manish Kumar Dhiman** Asstt. Professor (G-II)
6.	**Electronics & Communication Engineering**	**1.** VLSI Design **2.** Device Modelling in VLSI	**Dr. Ashwani Kumar Rana** Associate Prof. & Head
		1. VLSI Design	**Dr. Gargi Khanna** Associate Professor
		1. Cyber-Physical Security in IoT: Challenges and Solutions. **2.** Next-Generation Wireless Networks: Exploring 5G and 6G Communication Technologies. **3.** Artificial Intelligence for 5G/6G Communication Systems: Enhancing Network Performance and Security.	**Dr. Sandeep Kumar Singh** Assistant Prof. Gr.-I
		1. Development of intelligent systems for biomedical signal analysis. **2.** Artificial Intelligence assisted smart healthcare system. **3.** Development of low-cost prototype for cardiac sound signal processing. **4.** Development of deep neural networks for Speech Emotion Recognition.	**Dr. Abhijit Bhattacharyya** Assistant Prof. Gr.-I
		1. Design and Analysis of Compact Waveguide Filter using Planar Insert. **2.** Design and Analysis MIMO Antenna for Sub 6 GHZ.	**Dr. Amit Bage** Assistant Prof. Gr.-I
		1. Design and development of circularly polarized leaky wave antenna in Dielectric Image Line environment for millimetre wave application.	**Dr. Chandra Shekhar Prasad** Assistant Prof. Gr.-I
7.	Mechanical Engineering	1. Gas Nozzle Design. 2. *Combustion in High Speed Flows*—Rayleigh Flow.	**Dr. Prashant Kumar** HOD & Associate Professor
		1. Supply Chain Management. 2. Total Quality management. 3. Industry 4.0 and 5.0 4. Six-Sigma/Lean Methodology.	**Dr. Rajiv Kr. Sharma** Associate Professor

		1. Automation and Manufacturing. 2. Aviation and Defence Studies. 3. Industry 4.0 and 5.0	**Dr. Somesh Kumar Sharma** Associate Professor & TPO
		1. Battery Thermal Management System. 2. Passive Heat Transfer Augmentation. 3. To study Ammonia Combustion in IC Engine.	**Dr. Varun** Associate Professor
		"Experimental & Numerical Investigation on Pool Boiling Heat Transfer Enhancement by Surface Modification".	**Dr. Deepak Sharma** Asstt. Professor
		SERB funded project on: "Design & Development of Extrusion Pressure Based Magnetorheological Finishing".	**Dr. Dilshad A. Khan** Asstt. Professor
8.	Mathematics & Scientific Computing	1. Artificial Neural Networks and Semi-Analytical methods for Partial Fractional Differential Equations. 2. Qualitative Studies for Stochastic Differential Equation. 3. Controllability for Fractional Differential Equations.	**Dr. Ramesh Kumar Vats**
		1. Bio-medical image Processing. 2. Learning Numerical Methods for Partial Differential Equations.	**Dr. Subit Kumar Jain** Asstt. Professor
9.	Material Science & Engineering	1. Design and Development of Iron Based low density alloys. 2. Synthesis and characterization of advanced quasi-equiatomic high entropy alloys. 3. Utilization of byproducts of metallurgical industries in developing the advanced materials.	**Dr. Raj Bahadur Singh** Asstt. Professor
		1. Compaction and Sintering of coal fly ash nanoparticles prepared by ball milling. 2. Effect of co doping on the structural and optical behaviour of Cr_2O_3 3. Development of electrode material for supercapacitor. 4. Development of p type transparent conducting oxides. 5. Development of n type transparent conducting oxides.	**Dr. Vikram Verma** Asstt. Professor
10.	**Physics and Photonics science**	1. Metal Oxide-based heterojunctions for energy storage and conversion.	**Dr. Nisha Kodan**

प्रशिक्षण एवं नियुक्ति अधिकारी
Training & Placement Officer
राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर (हि0प्र0)
National Institute of Technology Hamirpur (H.P.)

राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर
हमीरपुर (हि.प्र.) — 177 005 (भारत)
[भारत सरकार शिक्षा मंत्रालय के तहत एक राष्ट्रीय महत्व का संस्थान]
NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR
HAMIRPUR (H.P.) - 177 005 (INDIA)
[An Institute of National Importance under Ministry of Education (Shiksha Mantralaya)]

{OFFICE OF TRAINING & PLACEMENT}

Annexure-III

==========

UG Training/ Internship Request Form

(For External Students only)

Paste your self-attested good quality photo here

1. Particulars of Applicant

Name:_____
Father's Name: _____
D.O.B. of Candidate:_____
Name of Branch at UG/PG Level_____
Name of parent college/Institute _____

Correspondence Address:

_____
_____
_____
Mobile No._____

Permanent Address:

_____
_____
_____Phone No_____
E-mail :_____

2. Qualifications (10+2 onwards till current stage) (Proof to be attached)

Sr. No.	Class/Year/Semester	Institute/University	Academic Year Completed	Percentage/Grade upto last semester appeared
1				
2				
3				
4				

3. Name of the Department/Centre where Training/Internship is to be undertaken:_____

- **Whether Applying under projects floated by the department:**
- **If yes, Name of project:**_____
- **If No, then areas/domain of interest**_____

_____

4. Tentative time duration of Training/ Internship from_____**to**_____**.No. of Weeks:.....**

5. Whether Hostel required :Yes/No
(Subject to availability of accommodation)

6. Name of specific equipment/software required for training (if any)_____

7. Name of Faculty mentor if consent was taken earlier: _____
(Proof to be attached)

I shall abide by all rules & regulations of NIT Hamirpur (HP) during my stay in the Institute.

Signature of Candidate with date

Recommended/ Not-Recommended

Training Coordinator

Signature of HOD (with seal)

(The record to be maintained in Department)

(Name of Deptt .....)

राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर
हमीरपुर (हि.प्र.) – 177 005 (भारत)
[भारत सरकार शिक्षा मंत्रालय के तहत एक राष्ट्रीय महत्व का संस्थान]
NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR
HAMIRPUR (H.P.) - 177 005 (INDIA)
[An Institute of National Importance under Ministry of Education (Shiksha Mantralaya)]

Annexure-IV

{OFFICE OF TRAINING & PLACEMENT}

==========

UNDERTAKING

I,_____S/O/D/O _____pursuing _____(course name) from_____(Institute/University), wish to undertake training/internship at _____ _____(Department) of National Institute of Technology, Hamirpur (H.P.) from_____to_____.

1. I undertake that I will be governed by the rules and regulations of the Institute and will be under administrative control of the Institute for the duration of the internship.

2. I will utilize the basic infrastructure, Department Laboratory and other resources of Institute with all responsibilities at my cost and only with the permission of concerned Head of Department.

3. Any damage caused to Institute property from my end will lead to the termination of my Training/ Internship and will bereimbursed by me.

4.I will make own arrangements for accommodation and local transport. NIT Hamirpur will not be responsible for injury, if any, caused during the course of my Training/Internship.

(Signature of Trainee with name):

Address:_____

_____

_____

Phone No.: .....

Signature of Head of Institute/Deptt.

Seal of the Institution:_____
(With Name and Address)

****

Office Use:

The candidate has reported to the department on.....

Mr/Ms.....is assigned Trainee/Intern No:. .....

Training Coordinator
Signature of HOD (with seal)

(Name of Deptt.....)

(The record to be maintained in Department)