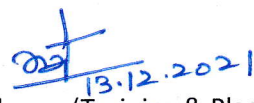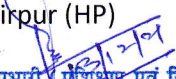## Internship Opportunities @ NIT Hamirpur (H.P)

National Institute of Technology Hamirpur invites applications from the students studying in IITs/NITs/State Technical Universities/Other CFTIs, to do Winter Training/Internship in the different Departments/Centers of 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 mail it to Training and Placement office, NIT Hamirpur at tpo@nith.ac.in.

The candidates can also apply for Training/Internship in the Departments/Centers which are not mentioned in the list. If the facility/faculty will be available in the area proposed by candidate (other than mentioned in the list of projects or Department/Center), the recommended candidates will be permitted to do training/internship in that Department/Center of NIT Hamirpur (H.P) . All the interested students can apply on or before 25/12/2021. The mode of internship, whether off-line/on-line, shall be decided by the Department after selection of the candidates.

For more details, contact 01972-254591/254590 and tpo@nith.ac.in.

13.12.2021

Faculty Incharge (Training & Placement)
NIT Hamirpur (HP)

संकाय प्रभारी (प्रशिक्षण एवं नियुक्ति)
Faculty Incharge (Training & Placement)
राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर (हि.प्र.)
National Institute of Technology Hamirpur (H.P.)

LIST OF PROJECTS FOR WINTER TRAINING/INTERNSHIP DURING 2021-22 AT NIT HAMIRPUR

DEPARTMENT	FACULTY	PROJECTS
Department of Mathematics & Scientific Computing	Dr. Nidhi Gupta	1) Deep learning approach for tumor Segmentation from medical images/COVID-19 data analysis. 2) Line Segmentation and character recognition from Handwritten Unconstrained Images. 3) Number Plate Detection and Verification of Licensed Vehicles in Dark Scenario using deep learning architecture.
Department of Electrical Engineering	Amit Kaul	1) Development of contactless biometric recognition system. 2) Development of non-invasive anomaly detection system.
	R.k Jarial	1) To carry out failure analysis in respect of distribution transformers of various ratings within Jurisdiction of an electrical utility and suggest failure mitigation strategies. 2) To carry out failure mode analysis in respect of a power transformer feeding a steel industry. 3) To investigate key issues of conformance in respect of International Electro technical Commission standards verses Indian Standards for ascertaining electrical health of various insulation Systems in oil filled and Dry Type High Voltage and Ultra High Voltage Power Transformers in Indian Context.
Department of Electronics & Communication Engineering	Mahesh Angira	1) Material Selection methodologies for RF MEMS technology based devices. 2) RF switches based on PCM materials for Telecommunication Applications. 3) RF-MEMS technology based shunt capacitive switches for wireless Communication systems. 4) RF-MEMS technology based metal-to-metal contact switches for wireless Communication systems. 5) RF-MEMS technology based variable capacitors and inductors.
Department of Mechanical Engineering	Dr. Sant Ram Chauhan	1) Machinability Study of particulate reinforced Al matrix Composites 2) Friction and Wear investigation of particulate reinforced Al matrix Composites
	Dr. Rajesh Sharma	1) Tribological studies on the performance of Textured surfaces subjected to sliding action 2) Performance evaluation of textured fluid film bearings

	Dr. Varun	1) CFD study on IC Engine. 2) Experimental and Numerical study on solar thermal systems.
	Dr. Somesh Sharma	Exploring role of Automation in minimizing breakdown probabilities among manufacturing Organizations.
	Dr. Rajiv Sharma	1) Six Sigma implementation issues in SMEs 2) Industry 4.0 and resilience in the supply chain 3) The Impact of Industry 4.0 on Quality Management Systems 4) Managing Supply Chain Risk and Disruption: COVID-19
	Dr. Mohit	"Numerical Simulation of Interfacial Fracture problems using Mesh free Method"
Department of Material Science and Engineering	Dr. Raj Bahadur Singh	Development of low density ferrous alloys for automobile applications
	Dr. Nitesh Kumar	Polysaccharide based drug delivery for wound Healing applications.
Department of Computer Science and Engineering	Dr. Arun Kumar Yadav	Machine Learning, Deep Learning. Information Retrieval, Text Summarization, Social media analysis
	Dr Mohit Kumar	Machine Learning, Deep Learning. Computer Vision, Speech Processing
	Dr. Basant Subba	Project related to machine learning based, Intrusion detection system, Sentiment Analysis, Machine Learning based classification problems
	Dr. Nitin Gupta	1) Block chain implementation on Hyper ledger for Pharmaceutical supply chain. (Strong Mathematical Background required) 2) Federated Learning for routing in Opportunistic Network (Knowledge of JAVA, PyTorch etc. required)
	Dr. Nagendra Pratap Singh	Image Processing (Medical Imaging), Machine Learning/Deep Learning and its Applications, Application of Theoretical Computer
	Dr Priyanka	IoT, VANET, IoV, Cloud Computing, Sensor Networks
	Dr. Rajeev Kumar	ICT in Healthcare
	Dr. T.P. Sharma	Study and implementation of Efficient and Fault Tolerant Strategies for Large Scale Distributed Systems
	Dr. Dharmendra Prasad	Design of Non Deterministic Polynomial Time Algorithms to solve NP-hard and NP-Complete problem
	Dr Pardeep Singh	NLP, Empirical Linguistics, Information Retrieval, Text Summarization, Social media analysis, Artificial Intelligence

	Dr Prakash Choudhary	Image processing and Industry Automation Applications
	Dr. Sangeeta Sharma	Cloud Computing, Edge Computing, Virtualization, Federated learning, IoT
	Dr. Naveen Chauhan	Mobile Wireless Networks, Vehicular Ad hoc Network's, Internet of Things.

NOTE:- The candidates can also apply in the Department/Centre which are not mentioned in the list. If the facility/faculty will be available in the willing area (other than mentioned in the list of projects or department/center), the recommended candidates will be permitted to do internship in that department/center of NIT Hamirpur (H.P).

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