<u>LIST OF PROJECTS FOR SUMMER TRAINING/INTERNSHIP DURING 18.05.2019</u> <u>TO 22.07.2019 AT NIT HAMIRPUR</u>

DEPARTMENT	FACULTY	PROJECT
Computer	Dr. Kamlesh Dutta	Natural Language Processing
Science &		2. Automation and App Development
Engineering		3. Information Security
	Dr. Narottam Chand Kaushal	1. Mobile Computing
		2. Internet of Things
		3. Information Security
	Dr. T.P. Sharma	Fault Tolerance in WSNs/VANETs
	Di. T.I. Sharma	2. Data Dissemination in IOVs/VANETs
	Dr. Siddhartha Chauhan	Simulation of Routing Protocols for WSNs in
	Di. Siddhartha Chadhan	OMNET++
		2. Simulation of Adhoc Network Protocols in
		OMNET++
	Dr. Naveen Chauhan	Mobile Wireless Network
	Di. Ivaveen Chauhan	2. Office Automation for Academic Institutions
	Er. Rajeev Kumar	Wireless sensor networks
	Li. Rajeev Ramai	2. Information Security
	Dr. Pardeep Singh	Text Summarization
	Di. Tardeep Shigh	Natural Language Processing
	Dr. Nitin Gupta	Resource Allocation in Next Generation wireless
	Di. Ividii Guptu	Networks like CRN, VANETs, VAV, Cloud Age and
		Fog Computing
		2. Comprehensive Survey of Few Upcoming Topics in
		Next Generation Networks
	Dr. Lokesh Chouhan	Internet on Things
		2. Network and Cyber Security
		3. E-Governance
		4. Mobile Banking and e-Payment
	Dr. Nagendra Pratap Singh	1. Medical Image Processing
		2. Pattern Recognition
		3. Machine Learning Based Techniques
	Dr. Dharmendra Prasad	1. Load Balancing in NVNL (Non Volatile Machine)
	Mahato	Based Systems
		2. Transaction Processing using Persistent Memory
		Concept
	Dr. J. Chandra Shekar	Bitcoin Trend Prediction Using Machine Learning
		2. Efficient Energy Consumption Techniques in Fog
		Computing Environment
		3. Development of Automation Model for NIT
		Hamirpur
	Dr. Basant Subba	1. Network Security
		2. Machine Learning
	Dr. Prakash Choudhary	1. Image Annotation
		2. Natural Language Processing
		3. Medical Image

Electrical	Dr. R.K. Jarial	
Engineering		 To design & develop a wireless alarm system for ensuring proper irrigation, soil condition and protection against harmful vermin in hilly areas. To carry on field investigations to design and develop real time monitoring of power apparatus located in a substation at NIT Campus using IOT. To study impact of non uniformity of surface finish, air atmospheric conditions, electrode shape and pollution deposits on the performance of 11KV transmission line insulators in a high voltage laboratoty.
Civil Engineering	Dr. R.K. Dutta	Bearing capacity of soil by soft computing techniques
	Dr. V.S. Dogra	Hydrus based irrigation scheduling Computation of evapotranspiration using cropwat.
	Dr. Vijay Kumar Bansal	1. Repetitive scheduling.
	Dr. K. Nallasivam	 Dynamic analysis of railway steel plate girder bridge/truss girder bridge/composite box girder bridge with track system due to railway train vehicle by finite element techniques Dynamic analysis of tall structure like electrical tower with cable/telecom tower/light post/chimney/wind mill due to wind and seismic load by finite element techniques Dynamic analysis of machine foundation due to time varying operating force by finite element techniques Dynamic analysis of dam due to hydrodynamic and earth quake load by finite element techniques Dynamic analysis of cable stayed bridge due to vehicle, wind and earth quake load by finite element techniques Dynamic analysis of rigid concrete pavement due to highway / airline vehicle, temperature warping and earth quake load by finite element techniques Dynamic analysis of highway t-beam deck slab bridge /slab bridge/ masonry arch bridge due to vehicle by finite element techniques Wind Energy for domestic usage
	Dr. Amrit Kumar Roy	 Wind Energy for domestic usage Dynamic response of tall building due to wind load by CFD simulation
	Dr. Joy Pal	Identification of source of AE of a plate type of structure Identification of loosening of bolts in steel frame structures.
	Dr. Joseph Tripura	Watershed delineation using DEM/Spatial Analyst using Are GIS.

	Dr. Subhadip Biswas	Lateral Placemat of vehicles under mixed traffic condition.
Chemical Engineering	Dr. RadheShyam	 CFD study of Flow and Heat Transfer over variously shaped bluff bodies Heat Transfer studies over a corrugated cylinder placed in Bingham plastic fluid
	Dr. Leela Manohar	 Development of polymer composites for CO₂ reduction to fuel. Synthesis of Nano-catalysts for electrochemical reduction of CO₂.
	Dr. Tapas Palai	Bioconversion of Heavy Metals from contaminated Water Adsorption of Heavy Metals on suitable adsorbents Estimation of diffusion coefficients of organic solvents using Stefan Method
	Dr. Arvind K. Gautam	 The preparation of Fe-doped TiO2 nano-particles. Development of short NPT Programing code for ising model. Preparation and characterization of fragrance be extracting the essential oils.
Chemistry	Dr. Jai Prakash	Synthesis of Polymer nanostructures
Centre for Material Science & Engg.	Prof. Ravi Kumar	 Growth of transparent conducting ZnO:Al thin films by Pulsed Laser deposition for optoelectronic applications. Structural, optical and magnetic properties of CuS
	Dr. Vikram Verma	based semiconductor nanoparticles. 1. Structural and Optical characterization of Titania-Zirconia based nano-composites.
		 Temperature dependent transport and magnetic properties of rare earth doped transition metal oxide. Structural, magnetic and electrical properties of Chromium based spinal oxides. Effect of rare earth doping on the optical and magnetic properties of NiO thin films prepared by Pulsed Laser deposition technique.

The candidates can also apply in the department/centre/project which is 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/centre), the candidate will be permitted to do Internship in that department/centre of NIT Hamirpur (HP).