



राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर  
NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR

INSTITUTE NEWSLETTER

# UTKRANT

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“*Strive not to be a success, but rather to be of value.*”

~ ALBERT EINSTEIN



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**G**reetings from the National Institute of Technology Hamirpur!

With immense pride and pleasure, I present this edition of our newsletter, a humble yet powerful endeavor to share the knowledge, achievements, and strides made by the NIT Hamirpur community. This newsletter represents our continued dedication to academic achievement, teamwork, and innovation. Through this medium, we hope to highlight the outstanding advancements achieved by our instructors, staff, and students in their unwavering quest for knowledge and their contributions to the engineering and technology fields.

We at NIT Hamirpur are strong proponents of education's transformational potential. In addition to offering our students outstanding academic opportunities, we are dedicated to fostering in them the values that will help them become responsible, creative, and moral engineers. We must actively contribute to change in addition to adapting to it in a world that is changing all the time. This newsletter serves as evidence of our efforts to share knowledge, conduct research, and develop innovation.

We continue to be at the forefront of engineering education and research because of the constant passion and pursuit of excellence of our Faculty. Their dedication to fostering young minds and advancing important research is unwavering in the face of these obstacles. This newsletter offers a glimpse of their invaluable work, ranging from cutting-edge research in laboratories to impactful initiatives that drive societal development. Through these initiatives, we hope to close the knowledge gap between academia and business, giving our students the tools they need to prosper in the quickly changing global economy.

The recent recognition of NIT Hamirpur in the Diamond Category by the Indian National Academy of Engineering is a proud moment for our entire community. It serves as a reminder of the collective effort and vision that has driven us forward, and it further strengthens our resolve to continue striving for excellence. We take great pride in our students, who actively engage in projects, research, and extracurricular activities that not only enrich their learning experience but also contribute positively to society.

This newsletter is more than just a summary of our accomplishments; it is a reflection of the spirit of cooperation, tenacity, and commitment that characterizes NIT Hamirpur. As we go forward, we continue to be firm in our conviction that innovation, inclusivity, and ethical responsibility are the fundamental pillars that define our institution. Together, we will continue to create a future that is promising, significant, and impactful.

Let us stay connected, share our knowledge, and continue working towards a brighter future for all.

*With warm regards,*

**Dr. H.M. Suryawanshi**

Director, National Institute of Technology, Hamirpur



## 2.1 Patents Filed

Sr. No	Title	Patent Application Number	Inventor/Author
1.	A decision system for planning urban green spaces (Ein Entscheidungssystem für die Planung städtischer Grünflächen)	202024106161.6.	Dr. Akanksha Sangwan, Dr Nand Kumar, Dr. Ashwani Kumar, Dr. Mahesh Kumar Jat

## 2.2 PhD Completed

Sr. No	Title	Supervision Status [Supervisor / Co-Supervisor(.)]
1.	Experimental Investigation and Optimization of Solar Air Heater Performance Using Jet Impingement and Roughness	Dr. Prashant Kumar
2.	Numerical Solution of Partial Differential Equations Using Deep Learning Methods	Dr. Neha Yadav / Prof. Sunil
3.	Time Series Modelling and Forecasting Based on Stochastic and Deep Learning Algorithms	Prof. Sunil / Dr. Neha Yadav



4.	Machine Learning-Based Health Monitoring of Joints in Steel Frame Structures	Dr. Vimal Kumar / Dr Joy Pal (NIT Sikkim)
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## 2.3 Journal Papers Published

Sr. No	Title of the paper	Journal Status[SCI / Scopus / Web of SC]	Authorship [Name of author / Co. Author(.)]
1.	Optimization of route planning for the mobile robot using a hybrid Neuro-IWO technique	International Journal of Information Technology, (Scopus) <a href="https://doi.org/10.11870-024-00123-4">https://doi.org/10.11870-024-00123-4</a>	Biswajit Sahoo, Debasish Das, Kishor Chandra Pujhari, Vikas
2.	Optimizing of Novel Magnetic Field-Assisted Electrical Discharge Turning Parameters for Machining EN24 Steel Alloy Using Response Surface Methodology and MCDM-Based CRITIC-TOPSIS Method	World Journal of Engineering (Scopus, Emerald) <a href="https://doi.org/10.1108/WJE-08-2023-0285">https://doi.org/10.1108/WJE-08-2023-0285</a>	Khair Ul Faisal Wani and Nallasivam .K
3.	Machining of Inconel-825 Super - alloy with Magnetic Field -Assisted Electrical Discharge Turning: An Optimization Approach Using Response Surface Methodology and Multi -Objective Genetic Algorithm	World Scientific Connect (SCI) <a href="https://doi.org/10.1142/S0218625X25500477">https://doi.org/10.1142/S0218625X25500477</a>	Roopak Varshney & Param Singh



4.	Autoencoder-Based Drug Synergy Framework for Malignant Diseases	Computational Biology and Chemistry, Volume 113, Elsevier (SCI) <a href="https://doi.org/10.1016/j.compbiolchem.2024.108273">https://doi.org/10.1016/j.compbiolchem.2024.108273</a>	Pooja Rani, Kamlesh Dutta, and Vijay Kumar
5.	SMDDH: Singleton Mention Detection Using Deep Learning in Hindi Text	ACM Transactions on Asian and Low-Resource Language Information Processing, Association for Computing Machinery (ACM) (SCI) <a href="https://doi.org/10.1145/3700821">https://doi.org/10.1145/3700821</a>	Kusum Lata, Pardeep Singh, and Kamlesh Dutta
6.	Jellyfish Search Chimp Optimization-Enabled Routing and Attack Detection in SDN-Based VANETs	Wireless Personal Communications, Volume 138, Issue 2, Springer (SCI) <a href="https://doi.org/10.1007/s11277-024-11525-1">https://doi.org/10.1007/s11277-024-11525-1</a>	Upinder Kaur, Aparna N Mahajan, Sunil Kumar, Kamlesh Dutta
7.	Machine Learning and Deep Learning Techniques for Detecting and Mitigating Cyber Threats in IoT-Enabled Smart Grids: A Comprehensive Review	International Journal of Information and Computer Security, Volume 24, Issue 3–4, Pages 284–321, Inderscience Publishers (IEL) (ESCI, Scopus)	Aschalew Tirulo, Siddhartha Chauhan, and Kamlesh Dutta
8.	Multi-Objective Optimization Algorithms for Intrusion Detection in IoT Networks: A Systematic Review	Internet of Things and Cyber-Physical Systems, Volume 4, Elsevier (Scopus) <a href="https://doi.org/10.1016/j.iotcps.2024.01.003">https://doi.org/10.1016/j.iotcps.2024.01.003</a> Elsevier (Scopus)	Roopak Varshney & Param Singh



9.	Multi-Objective Prairie Dog Optimization Algorithm for IoT-Based Intrusion Detection	Internet Technology Letters, Volume 7, Issue 6, Wiley (ESCI, Scopus) <a href="https://doi.org/10.1002/itl2.516">https://doi.org/10.1002/itl2.516</a> , Wiley, ESCI, Scopus)	Shubhkirti Sharma, Vijay Kumar, and Kamlesh Dutta
10.	A Novel Federated Learning Approach for Routing Optimization in Opportunistic IoT Networks	International Journal of Sensor Networks, Inderscience (SCI, I.F. 1.1) <a href="https://doi.org/10.1504/IJSNET.2024.10064733">https://doi.org/10.1504/IJSNET.2024.10064733</a>	Moulik Bhardwaj, Jagdeep Singh, Nitin Gupta, Kuldeep Jadon, and Sanjay K. Dhurandher
11.	Weak Nonlinear Thermo Bioconvection: Heat Transfer via Artificial Neural Network	International Communications in Heat and Mass Transfer, Volume 159, Elsevier (SCI)	Sanjalee Maheshwari, Y.D. Sharma, O.P. Yadav, Ankita Bisht
12.	A Numerical Study of the Generalized FitzHugh-Nagumo Equation Using a Higher-Order Galerkin Finite Element Method	Computational Mathematics and Mathematical Physics (SCIE)	Anisha Devi and O.P. Yadav
13.	A Consortium Blockchain-Edge Enabled Authentication Scheme for Underwater Acoustic Network (UAN)	Internet of Things (SCIE) <a href="https://doi.org/10.1016/j.iot.2024.101426">https://doi.org/10.1016/j.iot.2024.101426</a>	Neeraj Kumar, Rifaqat Ali
14.	Quantum-Safe Blockchain-Assisted Data Encryption Protocol for Internet of Things Networks	Cluster Computing (SCIE) <a href="https://doi.org/10.1007/s10586-024-04688-w">https://doi.org/10.1007/s10586-024-04688-w</a>	Sunil Prajapat, Neeraj Kumar, Ashok Kumar Das, Pankaj Kumar, Rifaqat Ali



15.	Acoustoelastic Guided Modes with Multiple Zero-Group-Velocity Points in Monoclinic, Trigonal, Tetragonal, Orthorhombic, and Triclinic Plates	Mechanics of Advanced Materials and Structures (SCI) <a href="https://doi.org/10.1080/15376494.2024.2429746">https://doi.org/10.1080/15376494.2024.2429746</a>	I Ben Salah, C Othmani, A Njeh, S Chaudhary, B Zhang
16.	Crack Dynamics in Rotating, Initially Stressed Material Strip: A Mathematical Approach	Applied Mathematical Modelling (SCI) <a href="https://doi.org/10.48550/arXiv.2409.11434">https://doi.org/10.48550/arXiv.2409.11434</a>	S Chaudhary, Diksha, PK Sharma
17.	A Distributed Approach for Scheduling Classes at Educational Institutes	Harbin Engineering University Journal (Scopus) <a href="https://doi.org/10.38028/HEUJ.2024.3512">https://doi.org/10.38028/HEUJ.2024.3512</a>	Ranjan Kumar Thakur, Nawin Kumar Agrawal, Pankaj Kumar
18.	A Practical Approach to College Timetable Scheduling	Mathematical Modeling and Computing (Scopus) <a href="https://doi.org/10.23939/mmc2024.03.710">https://doi.org/10.23939/mmc2024.03.710</a>	Ranjan Kumar Thakur, Nawin Kumar Agrawal, Pankaj Kumar
19.	A Numerical Study of the Generalized FitzHugh–Nagumo Equation Using a Higher-Order Galerkin Finite Element Method	Computational Mathematics and Mathematical Physics, 2024 (SCIE)	Anisha Devi and O.P. Yadav
20.	Modal Analysis of Rigid Pavement Resting on a Two-Parameter Soil Foundation Model Using Finite Element Framework	World Journal of Engineering (Scopus, Emerald) <a href="https://doi.org/10.1108/WJE-11-2022-0461">https://doi.org/10.1108/WJE-11-2022-0461</a>	Wani, K.U.F. and Nallasivam K



21.	Effective Location of Shear Walls in High-Rise RCC Buildings Subjected to Lateral Loads	Civil Engineering Infrastructures Journal (Scopus, University of Tehran) <a href="https://doi.org/10.22059/CEIJ.2023.350020.1879">https://doi.org/10.22059/CEIJ.2023.350020.1879</a>	Kashyap Shukla and Nallasivam .K
22.	Response of Railway Sub-Track System Subjected to Railway Train Loading Using Finite Element Technique	Innovative Infra-structure Solutions (SCIE, Scopus, Springer) <a href="https://doi.org/10.1007/s41062-023-01336-x">https://doi.org/10.1007/s41062-023-01336-x</a>	Ashutosh Ranjan and Nallasivam.K
23.	Free Vibration Analysis of Airfield Runway Rigid Pavement Using Finite Element Technique	Innovative Infra-structure Solutions (SCIE, Scopus, Springer) <a href="https://doi.org/10.1007/s41062-024-01443-3">https://doi.org/10.1007/s41062-024-01443-3</a>	Mohd Ibrar and Nallasivam.K Das,
24.	Static and Free Vibration Analysis of Rigid Pavement Based on Winkler and Pasternak Foundation	Structural Integrity and Life (Scopus – Society for Structural Integrity and Life and IMS Institute, Serbia)	Khair Ul Faisal Wani and K.Nallasivam
25.	Modal Analysis of a Coupled Ballastless Railway Track Surrounding a Horse Shoe Shape Shield Tunnel Linked to a Box-Girder Bridge with Substructure Using Finite Element Method	Innovative Infrastructure Solutions (SCIE, Scopus, Springer) <a href="https://doi.org/10.1007/s41062-024-01519-0">https://doi.org/10.1007/s41062-024-01519-0</a>	Aniket Chaudhary and Nallasivam.K



26.	The Free Vibration Characteristics of a Concrete Arch Gravity Dam Using Finite Element Technique	Civil Engineering Infrastructures Journal (Scopus, University of Tehran)	Sougata Mukherjee and K. Nallasivam
27.	Prediction of the Free Vibration Characteristics of Liquid-Storage Element Tanks Using Finite Element Techniques	Asian Journal of Civil Engineering (Scopus, Springer) <a href="https://doi.org/10.1007/s42107-024-01090-0">https://doi.org/10.1007/s42107-024-01090-0</a>	Mitresh Kaul and K.Nallasivam
28.	Finite Element Algorithm for Rigid Pavement Resting on Pasternak Elastic Foundation Model under Aircraft Loading	World Journal of Engineering (Scopus, Emerald) <a href="https://doi.org/10.1108/WJE-08-2023-0285">https://doi.org/10.1108/WJE-08-2023-0285</a>	Khair Ul Faisal Wani and Nallasivam .K
29.	Dynamic Response of Double-Deck Cable-Stayed Bridge Subjected to Train Load on Lower Deck	Journal of Vibration Engineering & Technologies (SCIE, Scopus, Springer)	Saket Kumar and Nallasivam .K
30.	Modal Analysis of Multi-Paneled Concrete Pavement Airport Runway Using Finite Element Technique	Journal of Vibration Engineering & Technologies, 13(13), (2025) (SCIE, Scopus) <a href="https://doi.org/10.1007/s42417-024-01695-4">https://doi.org/10.1007/s42417-024-01695-4</a>	Sandeep Bharti and Nallasivam .K
31.	Dynamic Analysis of Concrete Arch Dam Due to Earthquake Force	Journal of Rehabilitation in Civil Engineering (Scopus, Semnan University Press)	Sougata Mukherjee Nallasivam .K, Pankaj Kumar, Rifaqat Ali

32.	Modal Analysis of Concrete Gravity Dam Incorporating Pre-Stress Condition Along with Soil-Structure Interaction	World Journal of Engineering (Scopus, Emerald) <a href="https://doi.org/0.1108/WJE-04-2024-0217">https://doi.org/0.1108/WJE-04-2024-0217</a>	Abhishek Sharma and Nallasivam .K
33.	Modal Analysis of Natural Dynamic Frequency for a Double-Deck Cable-Stayed Steel Bridge Using the Finite Element Method	Discover Civil Engineering (Scopus, Emerald) <a href="https://doi.org/10.1007/s44290-024-00123-6">https://doi.org/10.1007/s44290-024-00123-6</a>	Saket Kumar and Nallasivam .K
34.	Dynamic Response of a PSC Box-Girder Bridge Impacted by High-Speed Train Load Using the Finite Element Approach	Innovative Infra-structure Solutions (SCIE, Scopus, Springer) <a href="https://doi.org/10.1007/s41062-024-01845-3">https://doi.org/10.1007/s41062-024-01845-3</a>	Sahil Kumar and Nallasivam .K
35.	Evaluation of Modal Performance in a Multi-Span Suspension Bridge Implementing a Finite Element Approach	Innovative Infra-structure Solutions (SCIE, Scopus, Springer) <a href="https://doi.org/10.1007/s42107-023-00655-9">https://doi.org/10.1007/s42107-023-00655-9</a>	Surbhi Aswal and K.Nallasivam
36.	Modal and Dynamic Response of Elevated Water Tanks of Different Shapes to Earthquakes	Journal of Vibration Engineering & Technologies (SCIE, Scopus, Springer)	Mitresh Kaul and K.Nallasivam
37.	Investigation of the Structural, Phase Formation, Optical, Bias Dependent Dielectric, and Visible Region Photocatalytic Degradation Performance of Zn <sub>1-x</sub> Fe <sub>x</sub> O Nanoparticles Prepared Using the Sol-Gel Method	Journal of Electronic Materials (SCIE) <a href="https://doi.org/10.1007/s11664-024-11421-1">https://doi.org/10.1007/s11664-024-11421-1</a>	Abhishek Sharma and Nallasivam .K



38.	Synthesis and Investigation of Structural and High-Temperature Conduction Mechanism of TiO <sub>2</sub> /NGQDs Nanocomposite Thin Films as a Transparent Conducting Material	Optical and Quantum Electronics (2024) 56:1909 (SCIE) <a href="https://doi.org/10.1007/s11082-024-07766-w">https://doi.org/10.1007/s11082-024-07766-w</a>	Adesh Kumar, Seema Azad, and Subhash Chand
39.	Establishing a Framework to Assess Urban Water Resilience in Developing Countries like India: Looking Beyond Water Utilities and Networked Cities	Water Policy (Scopus, Web of Science) <a href="https://doi.org/10.2166/wp.2024.221">https://doi.org/10.2166/wp.2024.221</a>	Manish Sharma, Bansari Sharma, Nand Kumar, Ashwani Kumar
40.	Development of Site Suitability Framework for Urban Greenspace: A Case Study of Sikar City, Rajasthan, India	Environmental Earth Sciences (Scopus, Web of Science) <a href="https://doi.org/10.1007/s12665-024-11898-3">https://doi.org/10.1007/s12665-024-11898-3</a>	Akanksha Sangwan, Sudesh Vijay Ananad, Nand Kumar, Ashwani Kumar, Mahesh Jat, Rayees Ahmed
41.	A Comparative Study on the Issues and Impacts of Land Use Planning in Indian and International Hill Cities	Architecture and Urban Planning (Scopus) <a href="https://doi.org/10.2478/aup-2024-0015">https://doi.org/10.2478/aup-2024-0015</a>	Swasti Sharma, Ashutosh Saini, Bhavna Shrivastava, Ashwani Kumar
42.	Impact of Transformations of Vernacular Settlements on Cultural Practices in the Hill Regions of India: A Review	ISVS e-journal <a href="https://doi.org/10.61275/ISVSej-2024-11-11-05">https://doi.org/10.61275/ISVSej-2024-11-11-05</a>	Diwan Muskan, Kumar Ashwani
43.	A Systematic Review of Integrated Urban Water Management (IUWM)	Environment, Development and Sustainability (ESCI) <a href="https://doi.org/10.1007/s10668-024-05649-4">https://doi.org/10.1007/s10668-024-05649-4</a>	Kalpna Thakur, Inderpal Singh, Puneet Sharma

44.	Geodesign-Based Approach for Flood-Resilient Town: A Case Study of Kullu, Himachal Pradesh	IDRiM Journal (Scopus) <a href="https://doi.org/10.5595/001c.129092">https://doi.org/10.5595/001c.129092</a>	Soni S, Kapoor N, Bhardwaj A, Bansal V
45.	Wall-Window Ratio and Its Impact on Daylight Performance for Offices Using Genetic Algorithm-Based Parametric Optimization in a Humid Subtropical Climate	Research Square (Scopus) <a href="https://doi.org/10.21203/rs.3.rs-4243881/v1">https://doi.org/10.21203/rs.3.rs-4243881/v1</a>	Rohit Thakur, Aniket Sharma
46.	Determining the Thermal Comfort of Naturally Ventilated State Colleges Located in Madhya Pradesh, India	Advances in Building Energy Research (Scopus) <a href="https://doi.org/10.1080/17512549.2024.2411256">https://doi.org/10.1080/17512549.2024.2411256</a>	Aditi Kashiv, Aniket Sharma
47.	Determination of Thermal Comfort in Residential Buildings of Subtropical Highland Climate – A Case of Hamirpur, Himachal Pradesh, India	IOP Conference Series Earth and Environmental Science (Scopus) <a href="https://doi.org/10.1088/1755-1315/1926/1/012157">https://doi.org/10.1088/1755-1315/1926/1/012157</a>	M. Manav, Aniket Sharma
48.	Examining Human Interactions with Smart Retail Technology: A Hybrid SEM-fsQCA Investigation	International Journal of Human-Computer Interaction (SSCI) <a href="https://doi.org/10.1080/10447318.2024.2252213">https://doi.org/10.1080/10447318.2024.2252213</a>	F.E. Hasan, Mortimer G., Adapa S., Mohd Adil, Balaji, Sadiq M., A.R. Amrollahi
49.	Factors Influencing Travellers' Decision-Making Behaviour Towards Online Travel Purchases: A Fuzzy-DEMATEL Approach	Current Issues in Tourism (SSCI) <a href="https://doi.org/10.1080/13683500.2023.2262707">https://doi.org/10.1080/13683500.2023.2262707</a>	Nikhil Dogra, Mohd. Adil



50.	Emotional Intelligence in the Field of Business and Management: A Bibliometric Analysis of the Last Two Decades	Vision: The Journal of Business Perspective (Scopus) <a href="https://doi.org/10.1177/09722629221132122">https://doi.org/10.1177/09722629221132122</a>	Shubham Sharma, Vivek Tiwari
51.	Examining the Nexus Between Technostress and Turnover Intention: The Moderating Influence of PsyCap in Indian Information Management Contexts	Journal of Enterprise Information Management (SCI) <a href="https://doi.org/10.1108/JEIM-08-2023-0434">https://doi.org/10.1108/JEIM-08-2023-0434</a>	Indu Sharma, Vivek Tiwari, S. Gupta, N.P. Rana
52.	Does Emotional Intelligence Contribute to Career Success? Evidence from a Systematic Literature Review	Global Business and Organizational Excellence (Scopus) <a href="https://doi.org/10.1002/joe.22246">https://doi.org/10.1002/joe.22246</a>	Shubham Sharma, Vivek Tiwari
53.	TiO <sub>2</sub> Decorated MXene Nanosheets for High-Performance Ammonia Gas Sensing at Room Temperature	Surfaces and Interfaces (SCI) <a href="https://doi.org/10.1016/j.surfin.2024.104290">https://doi.org/10.1016/j.surfin.2024.104290</a>	Nitesh Dogra, Sahil Gasso, Ankush Sharma, K.K. Sharma, Sandeep Sharma
54.	Modified Process Engineering at Morphotropic Phase Boundary for Enhanced Grain Size and Piezoelectric Response in Lead-Free BZT-BCT	Journal of Materials Science: Materials in Electronics (Scopus) <a href="https://doi.org/10.1007/s10854-024-18735-6">https://doi.org/10.1007/s10854-024-18735-6</a>	Rajat, Priyanka Sharma, Rahul Goel, Arun Kumar Singh, O. P. Thakur, K. K. Sharma, S. Kumar
55.	Phase-Engineered MoSe <sub>2</sub> /MoO <sub>3</sub> Composite with Improved Hydrogen Evolution Reaction	ACS Applied Energy Materials (Web of Science) <a href="https://doi.org/10.1021/acsaem.4c00074">https://doi.org/10.1021/acsaem.4c00074</a>	Nitesh Dogra, Sunil Singh Kushvaha, K. K. Sharma, Sandeep Sharma
56.	Prioritizing fire risk factors in historic urban cores of India: An analytic hierarchy process approach	International Journal of Disaster Resilience in the Built Environment Jan 2025 <a href="https://doi.org/10.1108/IJDRBE-03-2024-0039">https://doi.org/10.1108/IJDRBE-03-2024-0039</a>	Ms. Shipra Goswami, Mr. Rushikesh Kolte, Dr. Ashwani Kumar, Dr. Satish Pipralia, Dr. Nand Kumar

## 2.4 Conference Papers

Sr. No	Title of the paper	Conference Status [SCI / Scopus / Web of SC]	Authorship [Name of author / Co. Author(.)]
1 .	Comprehensive Review on Process Parameters and Different Workpieces in Travelling Wire Electrochemical Machining	International Conference MATHED-2024, December 16–18, 2024, NIT Hamirpur	Param Singh, Praneet Srivastava, Rohit Kumar Raj, Mehak Sihole, Prachi Gupta, Yajush Walia
2 .	Comparative Analysis of the Microstructural and Mechanical Characteristics of Al7075 Reinforced with	International Conference MATHED-2024, December 16–18, 2024, NIT Hamirpur	Yajush Walia and Param Singh
3 .	Performance Analysis of Machine Learning Classifiers for Phishing Threat Detection: A Multiple Datasets Perspective	6th International Conference on Machine Learning, Image Processing, Network Security, and Data Sciences (MIND 2024), December 20–21, 2024, NIT Goa (Scopus)	Spraha Singh and Kamlesh Dutta
4 .	Securing the Internet of Medical Things: Exploring Vulnerabilities and Attack Vectors	8th International Conference on Parallel, Distributed, and Grid Computing (PDGC -2024), December 18–20, 2024, JUIT Solan, India (Scopus)	Umesh, Sunil Kumar, Kamlesh Dutta, and A. Kumari



5.	Denial of Service (DoS) Attacks in SDN-Based VANETs: A Study	8th International Conference on Parallel, Distributed, and Grid Computing (PDGC-2024), December 18–20, 2024, JUIT Solan, India (Scopus)	Jyoti Sardana, Sunil Kumar, Dinesh Kumar, and Kamlesh Dutta
6.	DeepHCoref: A Deep Neural Coreference Resolution Model for Hindi Text	7th Workshop on Computational Models of Reference, Anaphora, and Coreference (CRAC 2024), November 15, 2024, Miami, USA (Scopus)	Kusum Lata, Pardeep Singh, Kamlesh Dutta, Abhishek Kanwar
7.	Fabric Defect Detection Using YOLOv8	In: Roy, S., Sinwar, D., Dey, N., Perumal, T., R. S. Tavares, J. M. (eds), Innovations in Computational Intelligence and Computer Vision. ICICV 2024. Lecture Notes in Networks and Systems, vol. 1117. Springer, Singapore	Bhavesh Kapil and Kamlesh Dutta
8.	DUNE: Decoding Unified Naive Bayes Explainability through Gaussian Methods for Heart Disease Diagnosis	IEEE 15th International Conference on Computing, Communication, and Networking Technologies (ICCCNT), published IEEE, November 4, 2024 (Scopus)	Subramanyam Sahoo and Kamlesh Dutta
9.	An Evaluation Study of Non-Contact Fingerprint Presentation Attack Detection	IEEE International Conference on Computer Vision and Machine Intelligence (CVMI), Prayagraj, India, 2024	Tanuj and Ram Prakash Sharma

10.	Advanced Fingerprint Authentication System Integrating HQC and AES Encryption for Post-Quantum Security	9th International Conference on Computer Vision & Image Processing (CVIP) (Scopus)	Ankan Mondal and Ram Prakash Sharma
11.	Performance Analysis of Machine Learning Techniques in Plant Leaf Disease Detection	IEEE International Conference on Computer Vision and Machine Intelligence (CVMI), Prayagraj, India, 2024 (Scopus)	Sankalp Gupta, Piyush Kumar, Mohammad Khalid Pandit
12.	Evaluating Neural Network Parameter Obliteration in Catastrophic Forgetting	IEEE Region-10 Symposium (TENSYP)-2024	Udit Sehra, RK Dutta, Mohammad Khalid Pandit
13.	Exploring Denoising Diffusion Models for Realistic Anime Character Generation	IEEE 16th International Conference on Computational Intelligence and Communication Networks (CICN)	Vishakha Kumari, Robin Singh Bhadoria
14.	Genetic Algorithm-Driven Random Forest Model for Predicting Acute Respiratory Distress Syndrome (ARDS)	International Conference on Machine Learning and Data Engineering 2024	Abhishek Thakur, Pardeep Singh, Kusum Lata
15.	Enhanced Biomedical Named Entity Recognition Using SpaCy and BERT Models	3rd International Conference on Machine Learning and Data Engineering	Manish Kumar, Pardeep Singh, Poonam Kashtriya



16.	Sentiment Analysis on Movie Reviews: A Comparative Study	8th International Conference on Parallel, Distributed, and Grid Computing (PDGC 2024), 18th–20th December 2024, organized by the Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology	Muskan Soni, Namrata Kumari, Pardeep Singh, Vikas Kashtariya
17.	An Effective Methodology for Identifying Adverse Drug Reactions Using the Firefly Algorithm	3rd International Conference on Machine Learning and Data Engineering (ICMLDE 2024), 28th–29th November 2024, Dehradun, India	Abhishek Kanwar, Raj Mohan Singh, Kusum Lata, Atul Dhiman, Pardeep Singh
18.	Heart Disease Prediction: Evaluation of Machine Learning Models with PSO-Optimized K-Fold Cross-Validation	IEEE Region 10 International Conference (TENCON SYMP 2024), 27th–29th September 2024, Delhi, India	Nikita Gupta, Kuldeep Singh Jadon, Preeti Soni, Nitin Gupta, and Sanjay Kumar Dhurandher
19.	State-of-the-Art Review for Expansive Soil Stabilization Using Nature-Based Solutions and Synthetic Fibers	Indian Geotechnical Conference (IGC 2024), 19th–21st December 2024, organized by the Indian Geotechnical Society (IGS) at MIT, Chhatrapati Sambhajinagar (Aurangabad), India	Bharti Kumari, Meghna Sharma
20.	State-of-the-Art Review for AI-ML-Based Prediction of Unconfined Compressive Strength of Bio-Cemented Sand	Indian Geotechnical Conference (IGC 2024), 19th–21st December 2024, organized by the Indian Geotechnical Society (IGS) at MIT, Chhatrapati Sambhajinagar (Aurangabad), India	Jailalita, Meghna Sharma, Soniya Chaudhary

21.	State-of-the-Art Review for Protection of Slopes Using Geosynthetic Composite Mats	Indian Geotechnical Conference (IGC 2024), 19th–21st December 2024, organized by the Indian Geotechnical Society (IGS) at MIT, Chhatrapati Sambhajnagar (Aurangabad), India	Ankush Choudhary, Meghna Sharma
22.	Assessment of Heavy Metal Contamination near Thermal Power Plants and Their Immobilization Techniques	Indian Geotechnical Conference (IGC) 2024, 19th–21st December 2024, organized by the Indian Geotechnical Society (IGS) at MIT, Chhatrapati Sambhajnagar (Aurangabad), India	Mohd Anas, Raheena M., Meghna Sharma
23.	Integrating Optimization Method with SVM for Health Monitoring of Joints in a Steel Frame Structure	4th International Conference on Modeling, Simulation, and Optimization (CoMSO 2024), 16th–18th November 2024, National Institute of Technology Silchar, Assam, India	Maloth Naresh, Joy Pal, Vimal Kumar
24.	Vibration Data-Based Health Monitoring of Joints in a 3D Steel Frame Structure Using ML Algorithm	4th International Conference on Modeling, Simulation, and Optimization (CoMSO 2024), 16th–18th November 2024, National Institute of Technology Silchar, Assam, India	Maloth Naresh, Joy Pal, Vimal Kumar



25.	Numerical Analysis of the Load-Bearing Response of Pile Raft Foundations: A Parametric Investigation	Indian Geotechnical Conference (IGC) 2024, 19th–21st December 2024, organized by the Indian Geotechnical Society (IGS) at MIT, Chhatrapati Sambhajinagar (Aurangabad), India	Arya, Y., Sengupt, A. I., Chowdhury S.
26.	Evaluation of Strength Characteristics of Bentonite Mixed Fly Ash	Indian Geotechnical Conference (IGC) 2024, 19th–21st December 2024, organized by the Indian Geotechnical Society (IGS) at MIT, Chhatrapati Sambhajinagar (Aurangabad), India	Kumar R., Roy S., Chowdhury S.
27.	Effect of Sand Content on the Hydraulic Performance and Mechanical Behavior of Bentonite Sand Mixtures	Indian Geotechnical Conference (IGC) 2024, 19th–21st December 2024, organized by the Indian Geotechnical Society (IGS) at MIT, Chhatrapati Sambhajinagar (Aurangabad), India	Kumar A., Roy S., Chowdhury S.
28.	Integration of GIS and BIM for Thermal Comfort through Passive Design Strategies in a School Building: A Case Study	The International Conference on Infrastructure for Sustainability 2024, 11-12 December 2024, at Adani University.	Daman and Kapoor N

## 2.5 Book Chapters

Sr. No	Title of the chapter	Name(s) of author(s) of chapter	Title of book	Name(s) of editor(s)	Year of publication	Publisher
1 .	Uncertainty Handling and Information Processing Capabilities of Granular Computing: A Deep Learning	Sonu, Anshul Kumar, Robin Singh Bhadoria & Tofigh Allahviranloo	Management of Uncertainty Using Linguistic Z-Numbers	Tofigh Allahviranloo, Sovan Samanta	2024	Springer
2 .	Methodology of GIS-Enabled Virtual Campus Design	V.K. Bansal, N. Kapoor	Smart Buildings & Cities with Remote Sensing and GIS	Shiv Mohan, Navneet Munoth, Neha Sharma	December 2024	Taylor & Francis Group



## 2.6 Placements

Branch	Eligible Candid- -ates	Placed	% Place- -ment	Total Jobs Offered	% Jobs offered to NITH	Max CTC (in lakhs)
Computer Science & Engg.	116	85	72.41	100	86.21	58
Computer Science & Engg. Dual Degree	25	17	68	20	80	27.8
Electronics & Comm. Engg.	101	65	64.36	75	74.26	53
Electronics & Comm. Engg. Dual Degree	25	16	64	15	60	41
Electrical Engg.	111	88	79.28	103	92.79	30
Mechanical Engg.	112	95	84.82	110	98.21	23.5
Civil Engg.	87	39	44.8	45	51.72	21
Chemical Engg.	61	43	70.49	47	77.05	23.5
Mathematics and Computing	46	33	71.74	32	69.57	53
Material Science Engineering	26	17	65.38	18	69.23	8.5
Architecture	34	9	26.47	9	26.47	7.1
M.Tech (all)	169	59	34.91	60	35.5	21.96
MBA	31	3	9.68	3	9.68	8.5

# AWARDS

1. Dr. Meghna Sharma of the Indian Geotechnical Society received the IGS-Shri A.G. Dastidar Biennial Award on December 21, 2024. Her team's research paper, titled "Bearing Capacity and Liquefaction Assessment of Shallow Foundations Resting on Vibro-Stone Column Densified Soil in Vallur Oil Terminal, India," authored by Tanmoy Das, Meghna Sharma, and Deepankar Choudhury, was recognized as the Best Paper on "Ground Improvement" and published in the Indian Geotechnical Journal. Dr. Meghna expressed her gratitude to the Indian Geotechnical Society for this honor, which was conferred upon the team during the Indian Geotechnical Conference 2024, hosted by the IGS-Aurangabad Chapter at MIT Aurangabad (Marathwada Institute of Technology).
2. The Indian Concrete Institute and Ultratech Cement awarded Dr. Aditi Chauhan the Young Concrete Technologist Award on October 19, 2024.
3. Dr. Mohd Adil was honored with the Inspiring Educator Award 2024 on September 5, 2024, by the National Institute of Technology, Hamirpur. He was one of 100 educators worldwide who made exceptional contributions to educational excellence.
4. Dr. Kuldeep Kumar Sharma was honored with the Bharat Shiksha Gaurav Puruskar 2024 and a Certificate of Excellence on December 22, 2024, in recognition of his outstanding achievements and significant contributions to the field of education. He is associated with the KTK Outstanding Achievers and Education Foundation, New Delhi, which is registered under MCA (Section 8), Government of India, with License No. 122990.
5. Daman & Kapoor N received the Best Research Paper Award at the International Conference on Infrastructure and Sustainability 2024 for their outstanding research contribution. Their paper, titled "Integration of GIS and BIM for Thermal Comfort through Passive Design Strategies in a School Building: A Case Study," was recognized for its innovative approach to sustainable infrastructure and thermal comfort analysis. Presented at the conference held on December 11–12, 2024, at Adani University, the paper, indexed in Scopus, was lauded for its significant impact in advancing research on the integration of Geographic Information Systems (GIS) and Building Information Modeling (BIM) to enhance passive design strategies in educational buildings.

# WORKSHOP / FDP/SHORT-TERM COURSES CONDUCTED

1. Short-term course on Advancements in Energy-Efficient Building Technology and Climate-Responsive Design University



To bring together leading academicians, industrialists, and researchers, the event aims to facilitate the exchange and sharing of experience and knowledge related to energy-efficient building technology. It provides a dynamic platform to present and discuss the most recent innovations, emerging trends, and pressing challenges, as well as practical issues encountered and solutions adopted in the field of EEBT. The discussions will explore various simulation techniques, focusing on reverse engineering and rapid prototyping, while also addressing the complexities of developing climate-responsive designs. Participants will share their acquired skills and the challenges faced in this process, contributing to a broader understanding of architectural design and energy flow systems in buildings. Through these exchanges, the event seeks to advance sustainable practices and foster the development of more energy-efficient structures.



## 2. RTNC-2024: Exploring Cybersecurity Challenges and Emerging Trends in Networks & Communication

3rd Short-Term Course on Recent Trends in Networks & Communication: Cyber Security Challenges (RTNC-2024): The Third STC RTNC 2024, organized by the Department of Computer Science and Engineering at NIT Hamirpur, took place from September 23rd to 28th, 2024. This event featured a series of lectures delivered by experts from various NITs, IITs, government institutes, and industries. These experts shared valuable insights on their respective fields and domains. The event covered a wide range of topics, including the rising threat of cyber-attacks, best practices to protect computing environments from viruses, the design and scalability of distributed systems, and the importance of strong cryptographic protocols to prevent cyber-attacks. Additionally, there were discussions on research methodology and academic writing, malware analysis, and various types of malware and prevention strategies. The event also highlighted the security aspects of the Internet of Things, AI-driven cyber threats, and the role of Cyber Threat Intelligence in mitigating these threats. Finally, the event concluded with a session on AI's role in enhancing cybersecurity, focusing on confidentiality, integrity, and availability in mobile device security.



### 3. Faculty Development Program on Advanced Energy Storage Systems for Electric Vehicles Successfully Concluded

The Department of Electrical Engineering completed the five-day online faculty development program on “Advanced Energy Storage Systems for Electric Vehicles” from 11-15 November 2024. Under this e-FDP, ten expert sessions were organized, and 48 participants actively engaged in the program. Major highlights of the e-FDP consist of a discussion on the advantages and challenges of hydrogen energy storage-based fuel cell EVs, the role of power converters in electric vehicles, and the state of health and remaining useful life of Li-ion batteries using COMSOL software.



### 4. Initiation into Mathematics 2024: A Transformative Learning Experience at NIT Hamirpur

The Initiation into Mathematics (InitMath) 2024 program was successfully conducted by the Department of Mathematics & Scientific Computing, NIT Hamirpur, Himachal Pradesh, from September 16 to September 21, 2024. This academic program featured three fundamental courses in mathematics, taught by highly experienced faculty trained in the MTTS (Mathematics Training and Talent Search) teaching methodology. Unlike conventional lectures, the program focused on engaging participants in active mathematical thinking and discovery, encouraging them to develop problem-solving skills and gain deeper insights into mathematical concepts.





**5. Workshop on Bridge Design and Analysis Using MIDAS CIVIL Concluded at NIT Hamirpur**  
 Five-Day Workshop on Introduction to Bridge Design Software (Concepts, Modeling, Analysis, and Design of a Bridge in MIDAS CIVIL), 19th August to 23rd August 2024, Jointly organized by MIDAS IT Mumbai-400705 (Maharashtra) and the Department of Civil Engineering National Institute of Technology Hamirpur, MIDAS provides software solutions to engineers around the world. MIDAS software is applied in the construction, architectural, civil, structural, geotechnical and mechanical structural design

process to simulate and optimize the design. The workshop intended to develop knowledge of MIDAS in the field of Civil (Bridge) engineering. It made the audience aware of the basic and advanced tools available in MIDAS and their hands-on/practical sessions in Bridge Engineering.



#### **6. National programs like GIAN, etc. conducted**

The Department of Electrical Engineering organized a GIAN course on Modeling and Control of Power Electronic Converters for Energy System Applications, held from December 16–20, 2024. This course featured distinguished foreign faculty member Prof. Masoud Karimi Khartemani, Fellow of IEEE, from Mississippi State University, USA, alongside Prof. Ragavan from IIT Gandhinagar, who served as the Indian expert.

The course was inaugurated by Prof. H. M. Suryawanshi, Director of NIT Hamirpur. Over seventy participants from across the country attended the course, actively engaging with the experts on various research challenges. A workshop-cum-interaction session with the department's faculty board and the visiting GIAN experts was also held on December 17, 2024. During this session, the experts provided valuable feedback on the available facilities, faculty expertise, and the current curriculum.

At the valedictory session, participants expressed their profound appreciation for the course content and extended their gratitude to the institute's authorities for providing excellent boarding and lodging facilities.

The course was coordinated by Dr. Chandrasekaran and Dr. Supriya Jaiswal.



# NATIONAL/INTERNATIONAL CONFERENCES ORGANISED

1. The Department of Architecture organized the CPTED Conference 2024, held on 7th December, bringing together experts from urban planning, law enforcement .The CPTED Conference 2024, held on 7th December, brought together experts from urban planning, law enforcement, and technology to explore how Crime Prevention through Environmental Design (CPTED) can be enhanced with modern digital security measures. Discussions focused on integrating AI-driven monitoring, IoT-enabled infrastructure, and smart surveillance to create safer urban environments. Emphasizing a "phygital" approach that merges physical and digital security, the conference highlighted the role of CPTED in shaping smart cities and intelligent buildings, ensuring future-ready and resilient spaces.

**CPTED CONFERENCE 2024**  
Organised by NIT Hamirpur and ISAC

CPTED, or Crime Prevention through Environmental Design, is a proactive approach of reducing crime by environmental design that discourages criminal behaviour and enhances the perception of safety. In this conference, we aim to shed light on the importance of implementing CPTED principles in buildings along with all the features required to make the digital safe. This will be the combination of Digital and Physical and is called Phygital.

For info and Abstract Submission, log in to:  
<https://bit.ly/cpted2024>

Scan & Submit

**Types of Abstract Submissions:**  
1. Original Research,  
2. Review Paper,  
3. Case Reports,  
4. Book Review,  
5. Poster in A3

Proceedings with doi and ISBN will be published by NIT Hamirpur and ISAC.  
Selected papers will be submitted to Springer Nature press (subject to conditions)

Timeline	
Submission of Abstract	15 Oct
Shortlisted Abstracts	20 Oct
Submission of Papers	25 Nov
Date of Conference	7 Dec

The Conference is open for Architects, Town Planners, City Planners, Civil Engineers, Security Enthusiasts, Academics and anyone from the multi-disciplinary domain of Building security. Students of all levels and streams are welcome

**Themes of the Conference:**  
1. CPTED,  
2. Crime Prevention through Environmental Design  
3. Smart Cities  
4. Intelligent Buildings  
5. Phygital Security

Hosted by:  
Dept of Arch  
NIT Hamirpur  
ISAC CSEP





2. The Department of Mechanical Engineering has organized an International Conference on Emerging Aspects of Manufacturing, Thermal, and Design Engineering (MATHED-2024) from December 16-18, 2024.

3. Advancing Research in Nonlinear Analysis and Optimization: ICNAAO-2024 Held Successfully:

4th International Conference on Nonlinear Applied Analysis and Optimization, 17-19 October 2024. The ICNAAO is in its 4th edition this year. The objective of the conference is to motivate and equip the participants with the recent state-of-the-art nonlinear analysis, fixed point theory, dynamical systems, optimization, fractals, applications to differential/integral equations, signal & image processing, and soft computing, as well as to expose the young talents to the newer dimensions in these areas with their practical approaches to tackle the real-life problems in engineering, medical and social sciences & the Ramanujan's Conjectures so that the participants can take up various challenges in the future.

The conference covered a wide range of themes, including linear and nonlinear optimization, combinatorial optimization, optimization algorithms and applications, heuristics and metaheuristics, and multi-objective optimization. It also explored the role of optimization in machine learning, image processing, and sustainability, along with optimization and learning under uncertainty. In addition, key topics such as fixed point theory, nonlinear analysis, fractals, dynamical systems, and mathematical modeling were discussed. The conference further delved into soft computing, decision-making, variational inequalities, numerical analysis, discrete mathematics, and solid/fluid dynamics, providing a comprehensive platform for researchers and practitioners to exchange insights and advancements in these fields.

## Any other info

1. The alumni of the 1998 batch, represented by Dr. Ashwani Kumar Rana, and the 1999 batch, represented by Dr. Vijay Kumar Bansal, were honored during the 15th Convocation of NIT Hamirpur, held on October 28, 2024. During their respective Silver Jubilee reunions last year, the 1998 batch made a generous contribution by donating an electric vehicle, while the 1999 batch donated an ambulance to their alma mater. These noble gestures reflect a profound spirit of giving back, and the contributions from both batches are deeply appreciated and commendable.



# HILL'FFAIR

Three Nights of Magic, Music, and Memories

As the cold November breeze swept across the campus, NIT Hamirpur transformed into a cultural haven, alive with energy, color, and an unshakable spirit of celebration. Hill'ffair 2024 was not just another festival—it was an experience, a three-day journey where every beat, every performance, and every cheer echoed the passion and talent of our vibrant student community.

## Day 1: A Grand Curtain-Raiser

The festival kicked off with the traditional lamp-lighting ceremony, a moment of reverence before the storm of festivities. The air was filled with anticipation as our esteemed Director, Registrar, and Dean of Student Welfare shared their words of encouragement, setting the tone for what lay ahead.

Then, the magic began. The Music Club opened the stage with a euphonic performance, wrapping the audience in melodies that felt both powerful and soothing. Just as the applause began to settle, PRAVAH took the center stage with their stunning "Shadow Act", a performance so beautifully crafted that it left the audience in awe.



Rhythmeecz followed with a graceful classical dance, a mesmerizing display of tradition and elegance. But the energy took a sharp turn when the Bhangra Crew stormed onto the stage, filling the air with their electrifying moves and infectious enthusiasm. The night was just getting started.

As the evening deepened, the Music Club returned with a Classical Fusion, blending old-world charm with modern rhythms. Then came the most awaited moment—the first Star Night of the festival.



The celebrated singer "Pragati Nagpal" took the stage on her birthday, and in that instant, the entire crowd became one, singing and swaying to the music. The night ended on a high, with one last burst of energy from the Bhangra Crew, leaving everyone exhilarated and craving more.



## Day 2: Art, Expression, and Enticing Energy

With spirits still soaring from the night before, the second evening promised an even richer cultural experience. It opened with a thoughtful skit by the Literacy Mission, a gentle reminder of the power of knowledge.

Then, Rhythmeecz brought their magic again, this time with a dance that felt like poetry in motion. The energy skyrocketed when the Bhangra Crew made their grand entrance once more, their beats reverberating through the crowd.

The stage then welcomed PRAVAH, who presented a compelling theatrical act that had the audience hanging onto every word and movement. The moment of cultural pride came when the Nati performance began—a dance so deeply rooted in Himachali tradition that it felt like the mountains themselves were dancing along.

The night took a turn for the artistic with the dazzling performance of the English Club. A skit submerged with humor, wit, and a strong message to all. Then, the glamour arrived. Fash-P took the spotlight with a stunning fashion parade, where creativity met confidence, setting the stage on fire.

But the showstopper was yet to come. As the lights dimmed and the crowd's anticipation peaked, DJ SuitUp, the Star Night singer, took the stage, delivering an unforgettable performance that had everyone lost in the music. The night ended with hoarse voices, aching feet, and the undeniable feeling that something truly special was happening.



## Day 3: The Grand Finale

The final day of Hill'ffair is always bittersweet; as the excitement reaches its peak, so does the realization that it's all coming to an end. And so, the festival gave it everything.

The afternoon began with an epic Battle of the Bands, where rival groups clashed in a fierce yet thrilling musical showdown, each determined to leave their mark.



As the evening set in, a jaw-dropping performance by the Martial Arts and Karate Academy had the audience gasping in admiration. Then came the ultimate DJ night, where the beats dropped, and the crowd transformed into one massive, pulsating wave of movement.

But Hill'ffair is never just about fun—it's also about impact. PRAVAH returned with a hard-hitting skit on drug abuse, leaving the audience in silent contemplation. Immediately after, Fash-P shifted the mood with their theme-based fashion show, where every outfit told a story.

The final performances of the festival were nothing short of magical. DRAVIDA captivated the audience one last time, and the Music Club delivered a performance that was equal parts emotional and electrifying. Then, the grand moment arrived—the final Star Night, featuring "Harmony of Pines," the Himachli Police band that sent the crowd into an ethereal frenzy.

As the clock struck midnight, the closing ceremony and felicitation marked the end of this unforgettable journey. Tired but euphoric, students, performers, and organizers alike shared the same thought—Hill'ffair 2024 wasn't just a festival. It was a memory, a feeling, an experience that will live on in the hearts of everyone who was there.





## 1,498 NIT students get degrees

30



## क्राइम फ्री सिटी डिजाइन पर एनआईटी हमीरपुर में मंथन



सम्मेलन का शुभारंभ करते एनआईटी के निदेशक। -स्रोत : संस्थान

हमीरपुर। राष्ट्रीय प्रौद्योगिकी संस्थान (एनआईटी) हमीरपुर में शनिवार को 'क्राइम प्रिवेंशन थ्रू एनवायरनमेंट डिजाइन' (सीपीटीईडी) विषय पर राष्ट्रीय कॉन्फ्रेंस का आयोजन किया गया। इस सम्मेलन का उद्देश्य क्राइम फ्री सिटी के मॉडल को विकसित करना था।

सम्मेलन में एएसपी हमीरपुर राजेश कुमार, एडवोकेट रोहित शर्मा, डॉ. ऋचा जोशी, डॉ. विजय के वंसल और नगर परिषद हमीरपुर के ईओ सहित कई प्रमुख व्यक्ति उपस्थित थे।

कार्यक्रम की शुरुआत डॉ. वेनू श्री के उद्घाटन भाषण से हुई। एनआईटी के निदेशक प्रो. एचएम सूर्यवंशी, रजिस्ट्रार डॉ. अर्चना नानोटी और

वास्तु कला विभाग के एचओडी डॉ. अश्वनी कुमार ने सुबह के सत्र अपने विचार साझा किए और क्राइम फ्री सिटी के निर्माण पर चर्चा के सम्मेलन में पैनल सदस्यों ने अपने अपने विभागों से संबंधित विषयों पर जानकारी दी।

विशेषज्ञों ने आपराधिक गतिविधियों की संभावना न के बराबर हो, इस लिए भवनों का निर्माण पर विस्तार प्रकाश डाला। इस दौरान क्राइम फ्री शहर डिजाइन करने के लिए शोध पर भी चर्चा हुई। कॉन्फ्रेंस के चेयरपर्सन डॉ. वेनू श्री ने कहा कि यह सम्मेलन भविष्य में क्राइम फ्री शहर के डिजाइन तैयार करने में मददगार साबित होगा। संवाद

NIT Hamirpur hosted a national conference on "Crime Prevention Through Environmental Design" (CPTED) to develop models for crime-free cities. Experts discussed building designs to minimize criminal activities, focusing on research papers for crime-free city planning. The conference, attended by officials including ASP Hamirpur and municipal representatives, aimed to shape future crime-free urban designs.

## चैंपियन बनने के लिए मजबूत सोच व ऊंचे सपने देखने की आवश्यकता: डॉ. अर्चना साइंस स्किट प्रतियोगिता में मैग्नेट पब्लिक स्कूल प्रथम

हमीरपुर | जिला स्तरीय प्रतिवाद प्रतियोगिता का आयोजन किया गया जिसमें निजी और सरकारी 30 स्कूलों के स्टूडेंट्स ने भाग लिया। राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर की रजिस्ट्रार डॉक्टर अर्चना नालोटी ने मुख्य अतिथि शिरकत करते हुए कहा कि चैंपियन बनने के लिए हमेशा मजबूत सोच व ऊंचे सपने देखने की आवश्यकता होती है। प्रतिभागी स्कूलों के लगभग 200 विद्यार्थियों ने साइंस क्विज, साइंस स्किट व साइंस मॉडल में भाग लिया। साइंस स्किट प्रतियोगिता में मैग्नेट पब्लिक स्कूल हमीरपुर ने प्रथम, राजकीय उच्च विद्यालय नालंगर ने द्वितीय तथा ब्लू स्टार पब्लिक स्कूल हमीरपुर में तृतीय स्थान प्राप्त किया। साइंस मॉडल में लिटिल एंजेल पब्लिक स्कूल मैहरे ने प्रथम, भगवती पब्लिक स्कूल जलाडी ने द्वितीय तथा हार्ड स्कूल सवाहल ने तृतीय स्थान प्राप्त किया। विज्ञान प्रश्नोत्तरी में मैग्नेट पब्लिक स्कूल हमीरपुर ने प्रथम, राजकीय वरिष्ठ



हमीरपुर। प्रतिवाद प्रतियोगिता के विजेता स्टूडेंट्स को सम्मानित किया गया।

माध्यमिक पाठशाला ताल ने द्वितीय व राजकीय वरिष्ठ माध्यमिक पाठशाला गलोड ने तृतीय स्थान हासिल किया। कार्यक्रम में जीएनए यूनिवर्सिटी के चांसलर गुरमीत सीहरा, डीन समीर वर्मा व निदेशक संसार चंद, जिला विज्ञान पर्यवेक्षक राजेश गौतम, जिला विज्ञान अध्यापक संघ प्रधान विकेश कौशल सहित सुशील चौहान, रजनीश कुमार, संदीप डडवाल, शशि बाला, मोना कुमारी, पवन बाला, शामली व अंजु आदि उपस्थित रहे। विजेताओं को सम्मानित किया गया।

NIT Hamirpur hosted a district-level science competition with 30 schools participating. Dr. Archana Nanoti of NIT Hamirpur stressed the need for strong aspirations to achieve success. Students competed in science quizzes, skits, and model presentations. Magnet Public School won in both the skit and quiz categories, while Little Angel Public School excelled in the model section.







## तेलंगाना के युवाओं ने किया धर्मशाला का दौरा



हमीरपुर : युवा संगम कार्यक्रम के तहत हिमाचल आए तेलंगाना का युवा धर्मशाला के दौर के दौरान समूहिक चित्र में। (राजेश)

हमीरपुर, 26 दिसम्बर (राजीव) : युवा संगम कार्यक्रम के तहत तेलंगाना से आए युवाओं ने हिमाचल प्रदेश की सांस्कृतिक, ऐतिहासिक और प्राकृतिक धरोहर का अनुभव करने के लिए प्रदेश के विभिन्न स्थानों की यात्रा पर हैं। यात्रा के तीसरे दिन प्रतिनिधिमंडल ने धर्मशाला का दौरा किया, जो अपनी अद्वितीय प्राकृतिक सुंदरता और आध्यात्मिक महत्व के लिए प्रसिद्ध है।

यहां तक कि युवाओं की यात्रा की शुरुआत हिमाचल प्रदेश क्रिकेट संघ

स्टेडियम से हुई, जो दुनिया के सबसे खूबसूरत स्टेडियमों में से एक है और धर्मशाला पर्यटन श्रृंखला के बीच स्थित है। इसके बाद समूह ने भागसु झरने का दौरा किया, जहां शांत वातावरण और झरने के पानी की कलकल ध्वनि ने उन्हें हिमाचल प्रदेश की प्राचीन सुंदरता से जुड़ने का अवसर प्रदान किया। तत्पश्चात उन्होंने नामगल मठ का दौरा किया।

यहां तक कि इन युवाओं की यात्रा 23 दिसम्बर को एन.आई.टी. हमीरपुर में समाप्त के साथ शुरू हुई थी जो

इस 5 दिवसीय शैक्षिक और सांस्कृतिक दौर की शुरुआत थी।

एन.आई.टी. हमीरपुर के निदेशक एच.एम. सूर्यवंशी और एन.आई.टी. हमीरपुर की रजिस्ट्रार डा. अर्चना संतोष नानोटी ने कहा कि यह कार्यक्रम सांस्कृतिक आदान-प्रदान को बढ़ावा देने, राष्ट्रीय एकता को प्रोत्साहित करने और एक मजबूत और अधिक संगठित राष्ट्र बनाने में मदद करेगा।

उन्होंने बताया कि यह कार्यक्रम 27 दिसम्बर तक जारी रहेगा।

## एन.आई.टी. में कल होगा विद्यार्थी विज्ञान मंथन

**प्रदेश के 120 छात्र लेंगे भाग, प्रत्येक कक्षा से 2 उत्कृष्ट छात्रों का किया जाएगा चयन**

हमीरपुर, 27 दिसम्बर (राजीव) : राष्ट्रीय प्रौद्योगिकी संस्थान (एन.आई.टी.) हमीरपुर में 29 दिसम्बर को मिनी ऑडिटरियम में विकसित भारत 2047 विषय पर विद्यार्थी विज्ञान मंथन का आयोजन किया जा रहा है। इस कार्यक्रम में हिमाचल प्रदेश के 12 जिलों से 120 छात्र भाग लेंगे। इनमें छठी से 11वीं कक्षा तक के प्रत्येक कक्षा से 2 उत्कृष्ट छात्रों का चयन किया जाएगा।

कार्यक्रम का आयोजन डा. अश्विनी कुमार राणा, इलेक्ट्रॉनिक्स और संचार

अभियांत्रिकी विभाग के प्रमुख के समन्वयक और डा. राकेश शर्मा (विकसित भारत) द्वारा किया जा रहा है। इस कार्यक्रम में भारत की पहली ओपन बुक परीक्षा और डिजिटल मूल्यांकन उपकरण जैसे नवाचारी तरीके अपनाए गए हैं, जो छात्रों के लिए एक बेहतर मंच प्रदान करते हैं।

प्रो. होरालाल मुरलीधर सूर्यवंशी, निदेशक, एन.आई.टी. हमीरपुर ने कहा कि विकसित भारत 2047 विषय पर विद्यार्थी विज्ञान मंथन का आयोजन हमारी कोशिशों को और मजबूत करता है कि हम एक वैज्ञानिक दृष्टिकोण से सक्षम पीढ़ी तैयार करें।

यह मंच छात्रों को अपनी क्षमता पहचानने और भारत के वैज्ञानिक भविष्य में योगदान करने के लिए

प्रेरित करता है। डा. अर्चना संतोष नानोटी, रजिस्ट्रार, एन.आई.टी. हमीरपुर ने कहा कि हम इस महत्वपूर्ण कार्यक्रम का आयोजन करके गर्व महसूस कर रहे हैं, जो हिमाचल प्रदेश के छात्रों को शीर्ष वैज्ञानिकों और शिक्षकों से संवाद करने का मौका देता है। यह नवाचार, आलोचनात्मक सोच और विज्ञान में उत्कृष्टता को बढ़ावा देता है।

कार्यक्रम में छात्रों के लिए रोमांचक क्विज, इंटरएक्टिव सत्र और प्रमुख वैज्ञानिकों और शिक्षकों से मिलने के अवसर होंगे। यह पहल युवा छात्रों को भारत के विकसित भारत 2047 के लक्ष्य से जोड़ने के लिए प्रेरित करेगी, जो विज्ञान और तकनीकी विकास से संभव होगा।

The Yuva Sangam program successfully concluded its Himachal Pradesh tour, with a delegation from Telangana having experienced the cultural and natural heritage, including a visit to Dharamshala. Subsequently, NIT Hamirpur hosted the Vidyarthi Vigyan Manthan on December 29th, focusing on "Developed India 2047." The event saw 120 students participate in engaging quizzes and interactive sessions with scientists, inspiring youth towards India's 2047 development goals.

## एन.आई.टी. हमीरपुर में विशेषज्ञों ने विचार किए सांझा

हमीरपुर, 17 दिसम्बर (राजीव) : एन.आई.टी. हमीरपुर में एन.आई.टी. हमीरपुर के अध्यक्ष डॉ. अश्विनी कुमार राणा और प्रमुख डॉ. राकेश शर्मा के नेतृत्व में एक विशेषज्ञ बैठक आयोजित की गई। इस बैठक में एन.आई.टी. हमीरपुर के विभिन्न विभागों के प्रमुख अधिकारियों और विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा की गई।

डॉ. राकेश शर्मा ने कहा कि यह बैठक विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा करने के लिए आयोजित की गई थी। इस बैठक में एन.आई.टी. हमीरपुर के विभिन्न विभागों के प्रमुख अधिकारियों और विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा की गई।

डॉ. अश्विनी कुमार राणा ने कहा कि यह बैठक विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा करने के लिए आयोजित की गई थी। इस बैठक में एन.आई.टी. हमीरपुर के विभिन्न विभागों के प्रमुख अधिकारियों और विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा की गई।

## डिजिटल तकनीक पर विचार किए सांझा



हमीरपुर, 22 दिसम्बर (राजीव) : एन.आई.टी. हमीरपुर के अध्यक्ष डॉ. अश्विनी कुमार राणा और प्रमुख डॉ. राकेश शर्मा के नेतृत्व में एक विशेषज्ञ बैठक आयोजित की गई। इस बैठक में एन.आई.टी. हमीरपुर के विभिन्न विभागों के प्रमुख अधिकारियों और विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा की गई।

डॉ. राकेश शर्मा ने कहा कि यह बैठक विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा करने के लिए आयोजित की गई थी। इस बैठक में एन.आई.टी. हमीरपुर के विभिन्न विभागों के प्रमुख अधिकारियों और विद्यार्थी विज्ञान मंथन के आयोजन के लिए आवश्यकताओं पर चर्चा की गई।

## हमीरपुर केसरी

DECEMBER 2024 बुधवार 07:21 कृति 05:26 आज मौसम सफ़ा रहेगा। HAMIRPUR KESARI

## हिमाचल के रीति रिवाज जानेंगे तेलंगाना के युवा

हमीरपुर, 27 दिसम्बर (राजीव) : एन.आई.टी. हमीरपुर में 29 दिसम्बर को मिनी ऑडिटरियम में विकसित भारत 2047 विषय पर विद्यार्थी विज्ञान मंथन का आयोजन किया जा रहा है। इस कार्यक्रम में हिमाचल प्रदेश के 12 जिलों से 120 छात्र भाग लेंगे। इनमें छठी से 11वीं कक्षा तक के प्रत्येक कक्षा से 2 उत्कृष्ट छात्रों का चयन किया जाएगा।

कार्यक्रम का आयोजन डा. अश्विनी कुमार राणा, इलेक्ट्रॉनिक्स और संचार अभियांत्रिकी विभाग के प्रमुख के समन्वयक और डा. राकेश शर्मा (विकसित भारत) द्वारा किया जा रहा है। इस कार्यक्रम में भारत की पहली ओपन बुक परीक्षा और डिजिटल मूल्यांकन उपकरण जैसे नवाचारी तरीके अपनाए गए हैं, जो छात्रों के लिए एक बेहतर मंच प्रदान करते हैं।

प्रो. होरालाल मुरलीधर सूर्यवंशी, निदेशक, एन.आई.टी. हमीरपुर ने कहा कि विकसित भारत 2047 विषय पर विद्यार्थी विज्ञान मंथन का आयोजन हमारी कोशिशों को और मजबूत करता है कि हम एक वैज्ञानिक दृष्टिकोण से सक्षम पीढ़ी तैयार करें।

यह मंच छात्रों को अपनी क्षमता पहचानने और भारत के वैज्ञानिक भविष्य में योगदान करने के लिए प्रेरित करता है। डा. अर्चना संतोष नानोटी, रजिस्ट्रार, एन.आई.टी. हमीरपुर ने कहा कि हम इस महत्वपूर्ण कार्यक्रम का आयोजन करके गर्व महसूस कर रहे हैं, जो हिमाचल प्रदेश के छात्रों को शीर्ष वैज्ञानिकों और शिक्षकों से संवाद करने का मौका देता है। यह नवाचार, आलोचनात्मक सोच और विज्ञान में उत्कृष्टता को बढ़ावा देता है।

NIT Hamirpur hosted a GIAN course on power electronics, with experts discussing smart sustainability and control strategies. Simultaneously, the institute organized an International Communication and Clinical Computing 2024 conference, focusing on AI's future applications and the importance of academic-industry collaboration.











संस्थान पत्रिका

# उत्क्रांत

संस्करण 15 अंक 1

“अगर तुम सूरज की तरह चमकना चाहते हो,  
तो सूरज की तरह जलना सीखो”

डॉ नीतू कपूर  
FACULTY INCHARGE

चिन्मय शर्मा  
EDITOR IN CHIEF

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