

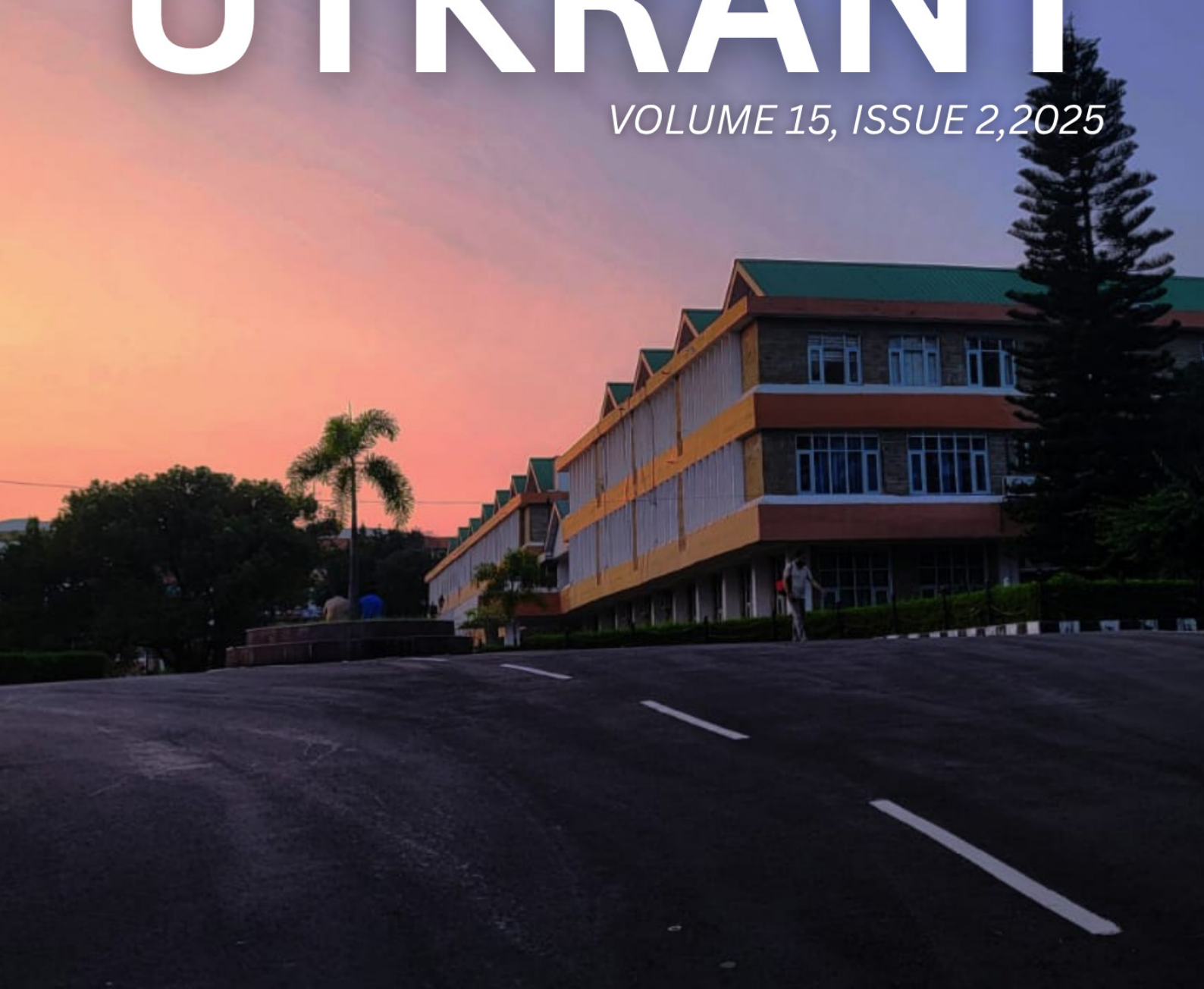


राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर
NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR

INSTITUTE NEWSLETTER

UTKRANT

VOLUME 15, ISSUE 2, 2025



“ Wonder is the seed of knowledge.”

~ FRANCIS BACON

CONTENT

01

**DIRECTOR'S
MESSAGE**

**FACULTY
ACCOMPLISHMENTS**

02

03

AWARDS

WORKSHOPS

04

05

**CONFERENCES
ORGANISED**

**NON -TECHNICAL
ACTIVITIES**

06

07

NITH IN NEWS

DIRECTOR'S MESSAGE



Greetings from the National Institute of Technology Hamirpur!

I am delighted to present this edition of our institute newsletter, Utkrant, which offers a glimpse into the vibrant academic and non-academic life at NIT Hamirpur. This publication captures the milestones, initiatives, and collective spirit that fuel the continuous growth and excellence of our institution.

In these pages, you'll find stories of innovation and perseverance—from academic brilliance to cultural and technical achievements. This edition highlights the accomplishments of our students and faculty, the impactful work under our literacy mission, and the huge success of our flagship tech-fest, Nimbus. These initiatives reflect our dedication not only to technical excellence but also to social responsibility and holistic development.

One of our standout innovations this year involved creating solar panels from glass recycled from

windows and doors—a small but powerful testament to our commitment to sustainability and creative problem-solving. It's this kind of ingenuity that keeps NIT Hamirpur at the forefront of engineering education and research. At the heart of our institution lies a culture driven by curiosity, collaboration, and compassion. Our faculty work with deep commitment to shape students into not just successful professionals but also responsible citizens. We aim to build an environment where innovation is nurtured, values are respected, and learning continues far beyond the classroom.

This newsletter is more than just a record of achievements; it's a reflection of our shared vision and determination. As we move forward, we remain committed to creating knowledge that empowers, research that transforms, and experiences that inspire.

I extend my sincere thanks to everyone who contributed to this edition. Your passion and enthusiasm are what makes our story worth telling.

With warm regards,

Dr. H.M. Suryawanshi

Director, National Institute of Technology Hamirpur



PhD Completed

Sr. No	Title of Thesis	[Supervisor/Co-Supervisor(.)]
1	Development and Analysis of a Class of Coupled Deformable Models: Applications to Image Segmentation	Supervisor, Dr. Subit Kumar Jain
2	Modelling and Analysis of Thermo-Bioconvection Problems	Co-Supervisor, Dr. Subit Kumar Jain
3	Higher Order Finite Element Analysis and Approximations of Nonlinear Reaction-Diffusion Equations By Ms. Anisha Devi	Supervisor, Dr. Om Prakash Yadav
4	Machine Learning and Interval Analysis for Advanced Portfolio Optimization	Supervisor, Dr. Pankaj Kumar
5	Role of Polymer Electrolytes and Biocatalysts for Electrochemical Reduction of CO ₂ to Hydrocarbons	Dr. Tapas Palai (Supervisor)/ Dr. Leela Manohar



Journal Papers

Sr. No.	Title of the paper	Journal Status [SCI / Scopus/ Web of SC]	Authorship [Name of Author / Co-Author(.)]
1.	Electrochemical Performance of V ₂ O ₅ /f-CNT Asymmetric Flexible Device for Supercapacitor Application	Journal of Inorganic and Organometallic Polymers and Materials SCI, https://doi.org/10.1007/s10904-025-03647-1	Mamta Bulla, Vinay Kumar, Raman Devi, Sunil Kumar, Sarita Sindhu, Rita Dahiya, Anushree Jatrana, Ajay Kumar Mishra, Raj Bahadur Singh
2.	Development of Low-Density Steel Nanocomposite Using Mechanical Alloying Followed by Spark Plasma Sintering	Journal of Materials and Engineering and Performance ESCI, https://doi.org/10.1007/s11665-025-10662-3	A Kumar, RB Singh
3.	Detailed Micromeritics and Rheological Study of Mild Steel Grinding Chips: A Sustainable Feedstock for Additive Manufacturing	Journal of Materials and Engineering and Performance SCIE, https://doi.org/10.1007/s11665-025-10940-0	Amarjit Singh, Lucie Jezerska, Daniel Gelnar, Manoj Kumar Sinha & Ravi Kumar
4.	Investigation of structural, magnetic, and electronic properties of Co doped NdMnO ₃	Journal of Magnetism and Magnetic Materials SCIE, https://doi.org/10.1016/j.jmmm.2025.172798	Farooq H. Bhat, G. Anjum, Jan Asifa, Tanveer A. Dar, Ravi Kumar, Manzoor A. Malik
5.	Harnessing the duality of magnetism and conductivity: A review of oxide based dilute magnetic semiconductors	Physica B: Condensed Matter SCIE, https://doi.org/10.1016/j.physb.2024.416596	Pankaj Bhardwaj, Jarnail Singh, Vikram Verma, Ravi Kumar



6.	Effect of Mg-substitution on the electronic structure, splitting, and optical transitions of Cr ₂ O ₃ nanoparticles	Applied Physics A SCIE, https://doi.org/10.1007/s00339-025-08476-0	Jarnail Singh, Shivank Kalia, Keun Hwa Chae, Ravi Kumar & Vikram Verma
7.	3D AIR-UNet: attention-inception-residual-based U-Net for brain tumor segmentation from multimodal MRI	Neural Computing and Applications Scopus, https://doi.org/10.1007/s00521-025-11105-9	Vani Sharma, Mohit Kumar, Arun Kumar Yadav
8.	Exploring hate speech detection: challenges, resources, current research and future directions	Multimedia Tools and Applications Scopus, https://doi.org/10.1007/s11042-025-20716-2	Geetanjali, Mohit Kumar
9.	Leveraging Sentiment Analysis to Detect Fake Reviews Using Deep Learning	SN Computer Science Scopus, https://doi.org/10.1007/s42979-025-03792-x	Mohit Kumar, Adarsh Rana, Arun Kumar Yadav, Divakar Yadav
10.	A Hybrid Model Integrating LDA, BERT, and Clustering for Enhanced Topic Modelling	Springer Quality & Quantity Scopus, https://doi.org/10.1007/s11135-025-02077-y	Arun Kumar Yadav, Tushar Gupta, Mohit Kumar, Divakar Yadav
11.	Character-Level Encoding based Neural Machine Translation for Hindi language	Neural Processing Letters SCI, https://doi.org/10.1007/s11063-025-11718-0	Divya Rathod, Arun Kumar Yadav, Mohit Kumar, Divakar Yadav
12.	FusionNet: Dual input feature fusion network with ensemble based filter feature selection for enhanced brain tumor classification	Brain Research SCI, https://doi.org/10.1016/j.brainres.2025.149507	Akash Verma, Arun Kumar Yadav
13.	Brain tumor segmentation with deep learning: Current approaches and future perspectives	Journal of Neuroscience Methods SCI, https://doi.org/10.1016/j.jneumeth.2025.110424	Akash Verma, Arun Kumar Yadav



14.	Improved multi-class brain tumor mri classification with ds-net: a patch-based deep supervision approach	Multimedia Tools and Applications Scopus, https://doi.org/10.1007/s11042-025-20668-7	Akash Verma, Arun Kumar Yadav
15.	The Internet of Bio-Nano Things with Insulin-Glucose, Security and Research Challenges: A Survey	ACM Computing Surveys, Vol. 57, Issue 5, Page 1-42 SCI, https://doi.org/10.1145/3703448	Phani Krishna Bulasara, Somya Ranjan Sahoo, Nitin Gupta, Zhu Han, Neeraj Kumar
16.	Response of isolated square footing on jointed rock mass under eccentric inclined loading	Bulletin of Engineering Geology and the Environment SCI, https://doi.org/10.1007/s10064-024-04059-0	Manendra Singh, Iqra Bashir, Krishna Kotiyal, Rahul Shakya
17.	Prediction of Bearing Capacity of Closely-spaced Footings: A Multi-layer Geogrid Reinforced Pond Ash Perspective.	International Journal of Geomechanics (ASCE) SCIE, Web of SC https://doi.org/doi.org/10.1061/IJGNAI/GMENG-10863	Biswas S., Chowdhury S.
18.	Dynamic Response of Double Deck Cable-Stayed Bridge Subjected to Train Load on Lower Deck	Journal of Vibration & Engineering Technologies SCIE, https://doi.org/10.1007/s42417-024-01562-2	Saket Kumar and K.Nallasivam
19	Modal Analysis of Multi-Panelled Concrete Pavement Airport Runway Using Finite Element Technique	Journal of Vibration & Engineering Technologies SCIE, https://doi.org/10.1007/s42417-024-01695-4	Sandeep Bharti and Nallasivam .K
20.	Dynamic response of a PSC box-girder bridge impacted by high-speed train load using the finite element approach	Innovative Infrastructure Solutions SCIE, https://doi.org/10.1007/s41062-024-01845-3	Sahil Kumar and Nallasivam .K



21.	Evaluation of modal performance in a multi-span suspension bridge implementing a finite element approach	Innovative Infrastructure Solutions SCIE, https://doi.org/10.1007/s41062-025-01891-5	Surbhi Aswal and K. Nallasivam
22.	Modal and Dynamic Response of Elevated Water Tanks of Different Shapes to Earthquakes	Journal of Vibration & Engineering Technologies SCIE, https://doi.org/10.1007/s42417-025-01793-x	Mitresh Kaul and Nallasivam.K
23.	Dynamic Analysis of a Coupled Ballastless Railway Track and Horse Shoe Shape Shield Tunnel Linked to a Box-Girder Bridge with Substructure Using Finite Element Method	Innovative Infrastructure Solutions SCIE, https://doi.org/10.1007/s41062-025-01939-6	Aniket Chaudhary and Nallasivam.K
24.	Synergistic effect of carbonation and cast-in-chlorides on corrosion initiation in reinforced concrete	Structures SCI, https://doi.org/10.1016/j.istruc.2025.108264	Chiranjeev Sagar, Aditi Chauhan, Umesh Kumar Sharma
25.	Robust and Metaheuristic Load Frequency Control Techniques for Renewable Energy-Based Power System: Comprehensive Review and Comparative Analysis	International Journal of Ambient Energy Scopus, https://doi.org/10.1080/01430750.2025.2474150	Manish Kumar Panday, Ram Niwash Mahia, S. Tiwari, and O. P. Mahela
26.	Stability analysis of partially ionized plasma in a porous medium with local thermal non-equilibrium effects	Journal of Plasma Physics SCIE, https://doi.org/10.1017/S0022377824001272	Vishal Chandel and Sunil
27.	Stability and convection in compressible partially ionized plasma layers: nonlinear and linear analysis	Zeitschrift für Naturforschung A SCIE, https://doi.org/10.1515/zna-2024-0207	Vishal Chandel, Sunil and Reeta Devi



28.	A nonlinear stability analysis of rotating Navier-Stokes-Voigt fluid heated from below	Journal of Applied Nonlinear Dynamics Scopus, https://doi.org/10.5890/jand.2025.03.002	Sweta Sharma, Sunil Kumar and Poonam Sharma
29.	Solution of a bi-level linear programming problem with uncertain parameters and its application	Operations Research and Decisions WoS, https://doi.org/10.37190/or.d250201	AK Bhurjee, Pavan Kumar
30.	An approach to portfolio optimization with time series forecasting algorithms and machine learning techniques	Applied Soft Computing, WoS, https://doi.org/10.1016/j.asoc.2025.112741	Jyotirmayee Behera, Pankaj Kumar
31.	Boundedness properties and Parseval-type relations for the index Whittaker transforms over Lebesgue spaces	Asian-European Journal of Mathematics https://doi.org/10.1142/S1793557125500378	HM Srivastava, Jeetendrasingh Maan, ER Negrin
32.	Asymptotic Behaviours for an Index Whittaker Transform over $E'(R^+)$	Mathematics SCIE, https://doi.org/10.3390/math13050689	Emilio R Negrín, Jeetendrasingh Maan, Benito J González
33.	Mellin and Widder–Lambert Transforms with Applications in the Salem Equivalence to the Riemann Hypothesis	Axioms SCIE, https://doi.org/10.3390/axioms14020129	Emilio R Negrín, Jeetendrasingh Maan, Benito J González
34.	The Evolution of Finite Element Approaches in Reaction-Diffusion Modelling	SCI (Archives of Computational Methods in Engineering) Springer, https://doi.org/10.1007/s11831-025-10222-x	R Sharma, OP Yadav



35.	Integral transform technique for determining stress intensity factor in wave propagation through functionally graded piezoelectric-viscoelastic structure	ArXiv SCI https://doi.org/10.48550/arXiv.2409.05472	Diksha, S Chaudhary, PK Sharma, QM Al-Mdallal
36.	A mechanics-based approach using machine learning, analytical, and numerical methods for SH wave propagation in viscoelastic structure	Mechanics of Advanced Materials and Structures SCI, https://doi.org/10.1080/15376494.2025.2477228	S Chaudhary, Diksha, N Yelve, P Sharma, M Jha
37.	Mechanics of surface wave propagation in a pre-stressed and functionally graded piezoelectric-hydrogel-viscoelastic composite layered structure	ZAMM - Journal of Applied Mathematics and Mechanics SCI, https://doi.org/10.1002/zamm.202401358	S Chaudhary, S Mulay
38.	Stress Generation Due to Moving Load on Gravitational Magneto-Elastic Orthotropic Half-Space with Parabolic Irregularity.	Journal of Solid Mechanics Scopus, https://doi.org/10.60664/jsm.2025.3081787	N Dewangan, SA Sahu, S Chaudhary
39.	Biotransformation of Hexavalent Chromium from Wastewater using Bacillus firmus, Journal of Water Chemistry and Technology	Journal of Water Chemistry and Technology SCI	Pragatisheel, A Kumar, LM Aeshala, T Palai
40.	Thermal conductivity analysis on computationally designed single-walled carbon nanotubes (SWCNTs) by chirality variations	Indian Chemical Engineer SCI, https://doi.org/10.1080/00194506.2025.2469557	Arvind K. Gautam, Nandlal Pingua, Kumud Pandey, Udisha Pathak
41.	Numerical Assessment of gas production potential via depressurization: Impact of Production interval and Bottom hole pressure at site NGHP-01-10D in the Krishna Godavari basin hydrate reservoir	Natural Gas Industry B. SCI, https://doi.org/10.2139/ssrn.4804728	Shadman Hasan Khan, Monika Gandhi; Beatrice Castellani, Pietro Profio, Michelle Ciulla, Chandrajit Balomajumder



42.	The distinctive reality of schizophrenia in Swallow Me Whole and HOAX Psychosis Blues: exploring comics and their narrative	Visual Studies Publisher: Routledge, Taylor and Francis Scopus, https://doi.org/10.1080/1472586X.2025.2474572	Ms. Shefali and Dr Preeti Puri
43.	Healthy menstruation: myth or reality? insights into urban slums of Vishakhapatnam city, India	Journal of Water, Sanitation and Hygiene for Development SCI-E/AHCI/SSCI and Scopus, https://doi.org/10.2166/was_hdev.2025.247	Ghnashyam Pandey, Tanmaya Darbhamulla, Ramesh Athe, Rinshu Dwivedi
44.	Burden of non-communicable diseases in South Asia: a decomposition analysis	Journal of Health, Population and Nutrition SCIE/AHCI/SSCI and Scopus, https://doi.org/10.1186/s41043-025-00827-0	Jalandhar Pradhan, Manacy Pai, Rinshu Dwivedi, Bijeta Mishra, Ssasmitta Behera, Tapas Bera, Rokly Kim and S V Subramaniam
45.	Meta analysis approach on social protection of children's cognitive development and Finance Health Care through randomized, controlled trials	Child Protection and Practice 4 Scopus, https://doi.org/10.1016/j.chipro.2025.100110	ST Parasa, VVS Nikhil, KBL Sreeja, A Kini, Rinshu Dwivedi, Ramesh Athe
46.	Vulnerability Ranking of Meters for Protection Against Attacks Targeting Power System State Estimation	Sadhana SCI, https://doi.org/10.1007/s12046-025-02708-y	T. S. Sreeram, K. Suryanarayan



47.	Impact of Urban Developments on the Historic Character of Temple Towns: Insights from Ekamra Kshetra, Odisha, India	Scopus https://doi.org/10.61275/ISVSej-2025-12-02-09	Sourojee Dutta
48.	Assessing the impact of land use land cover change and urbanization on urban heat island through remote sensing and geospatial techniques in Jhansi, India (2001–2021)	Urban Climate SCIE, https://doi.org/10.1016/j.uclim.2025.102432	Rubika Singh and Neetu Kapoor
49.	Implementation of Geodesign Framework for Development of Flood Resilient Hill Town: A Case Study	Journal of Integrated Disaster Risk Management Scopus https://doi.org/10.5595/001c.129092	Neetu Kapoor, Shivani Soni, Abhinam Bhardwaj, Vijay Kumar Bansal



Conference Papers

Sr. No	Title of the paper	Conference Status [SCI / Scopus/ Web of SC]	[Name Author / Co-Author(.)]
1	Video Emotion Recognition Using 3D-Convolutional Neural Network	Journal of Physics Conference Series Scopus, https://doi.org/10.1088/1742-6596/1738/1/012129	H Sharma, AK Yadav, M Kumar
2	Assessing U-Net Architectures for Effective Brain Tumor Segmentation in MRI	Scopus, https://doi.org/10.1109/SCEECS64059.2025.10940673	Akash Verma, Arun Kumar Yadav
3	Advanced Metaheuristic Techniques for Optimal Operation of Multi-Terminal HVDC Grids	3rd International Conference on Computer, Electronics, Electrical Engineering and their applications (IC2E3 2025) Scopus	Nishant Sharma Yog Raj Sood
4	Impact of Load Variation and Generation Contingency on Available Transfer Capability	3rd International Conference on Computer, Electronics, Electrical Engineering and their applications (IC2E3 2025) Scopus	Sunny Kumar Yog Raj Sood
5	Optimization of concrete mix design for compressive strength using machine learning	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025) Scopus	Kartik, Rohan Varisth, Pooja Meena, Avnish Pandey, Vishal Dhiman, Aman and Aditi Chauhan



6	Analysis of Control Dynamics of a Robotic Arm Using Linear Quadratic Optimal Control Technique	International Conference on Modeling, Simulation & Intelligent Computing Scopus, https://doi.org/10.1109/MoSICom63082.2024.10881926	M. K. Pandey, P. Mishra, and Ram Niwash Mahia
7	Model Predictive Control for a 2-DOF Robotic Arm: Dynamics and Control	International Conference on Modeling, Simulation & Intelligent Computing Scopus, https://doi.org/10.1109/mosicom63082.2024.10881967	P. Mishra, M. K. Pandey, and Ram Niwash Mahia
8	Teeth as Deleuzoguattarian Partial Objects in Edgar Allan Poe's "Berenice" Name of the Journal: Rupkatha Journal on Interdisciplinary Studies in Humanities Volume 16, Issue 4 Indexing: ESCI, Q2	WOS: PAN NIT Humanities International Conference on "Humanities at the Crossroads: The Convergence of Language, Literature and Technology" organised by the National Institute of Technology, Warangal, Telangana, India	Dr Preeti Puri and Ms. Shefali
9	Reproduction, Society and Modern Medicine: Unveiling the Intricacies of the Fertility Industry in India through the Movie Good Newwz (2019)	WOS: PAN NIT Humanities International Conference on "Humanities at the Crossroads: The Convergence of Language, Literature and Technology" organised by the National Institute of Technology, Warangal, Telangana, India	Dr Preeti Puri and Ms. Anubhuti Walia
10	Addressing the unmet needs in maternal and child health through positive education externalities in Himachal Pradesh	"Demographic Dividend and Inclusive Growth in North India": National Institute of Technology, Hamirpur Scopus	Prateek Sharma, Taseen Javid and Dr Rinshu Dwivedi



11	Mental Health and Well- Being in Anantnag, Jammu and Kashmir during the COVID-19 Pandemic: An Exploration of Predictive Factors	"Demographic Dividend and Inclusive Growth in North India": National Institute of Technology, Hamirpur Scopus	Taseen Javid, Prateek Sharma and Dr Rinshu Dwivedi
12	Cross Compatible Encryption Adapter for Securing Legacy Modbus Devices	IEEE 17th International Conference on Communications and Networks Scopus, https://doi.org/10.13140/RG.2.2.17596.55684	Aditya Patil. T. S. Sreeram
13	Module design strategies for residential satisfaction in row housing; case of central India	International Multi-disciplinary Conference on DESIGN 2030: Developing Efficient and Sustainable Innovations for Global Needs	Nandit Pastariya, Puneet Sharma



R&D Projects

Sr. No	Title of R&D Project/Patent	Name of Funding Agency and Amount	Name of PI (Department), Name of co-PI (Department)	Present Status of Project [Completed / Ongoing]
1	Socio-Economic Empowerment of Women through Localized Entrepreneurship: A Study of Himachal Pradesh	Indian Council of Social Science Research [ICSSR] New Delhi Amount: 8,50,000/-	Project Director: Dr. Preeti Puri, Assistant Professor, Department of Humanities and Social Sciences Co-Project Director: Dr. Manoj Sharma, Associate Professor, Department of Humanities and Social Sciences	Ongoing
2	Developing a Multilingual Health Communication Corpus for the Kutia Kondha of Kalahandi District, Odisha: An Ethnographic Study	ICSSR Multi-Disciplinary Research Studies on Particularly Vulnerable Tribal Groups (PVTGs) of India (2024-25) Amount sanctioned: Rs. 15,00,000/-	Project Director: Dr. Zareena. J. M., Assistant Professor, Department of Humanities and Social Sciences; Co-Project Director: Dr. Rinshu, Assistant Professor, Department of Humanities and Social Sciences	Ongoing



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	Hydrogen production using different methods	Rahul Saha, Devanshi Raman, Ranjan Phukan	Subsurface Hydrogen Energy Storage Current Status, Prospects, and Challenges	Achinta Bera, Sunil Kumar	2025	Elsevier
2	Understanding and Conserving Wetlands: Steps towards a Sustainable Future	Sarthak Goel, Sourovec Dutta	Urban Sustainable Solutions – Interdisciplinary Reflections for Global Sustainable Futures	Vibhore Bakshi, Navjit Gaurav and Deepank Verma	2025	Springer Nature Switzerland
3	Rejuvenation of Yamuna River Precinct-Case of Delhi Region	Puneet Sharma	Urban and Transit Planning: Strategies, Innovations and Climate Management	Francesco Alberti, Cristina Piselli, Paola Gallo, Rosa Romano	2025	Springer Nature
4	Methodology for GIS-Enabled Virtual Campus Design	Neetu Kapoor, Vijay Kumar Bansal	Smart Buildings and Cities with Remote Sensing and GIS	Shiv Mohan, Navneet Munoth, Neha Sharma	2025	Taylor and Francis



5	Assessing the Influence of Urban Development on the Urban Heat Island Through Remote Sensing and Geospatial Techniques in Jhansi, India	Rubika Singh, Neetu Kapoor	Opportunities and Challenges for a Resilient Future	Anjali Krishan Sharma, Ashutosh Joshi	2025	Springer Nature
---	---	----------------------------	---	---------------------------------------	------	-----------------

Awards

Sr. No	Name of faculty	Name of organisation	Date	Award	Other details, if any
1	Mr. Veeresh Tadahal and Dr Rinshu	Indian Association of Social Science and Health	07/03/2025	Best Poster award in IASSH 20th Annual Conference at Sambalpur University	Nil

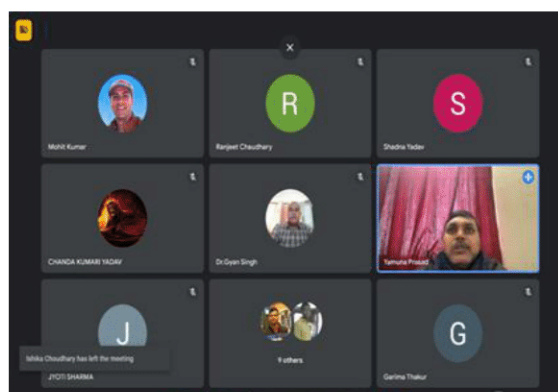
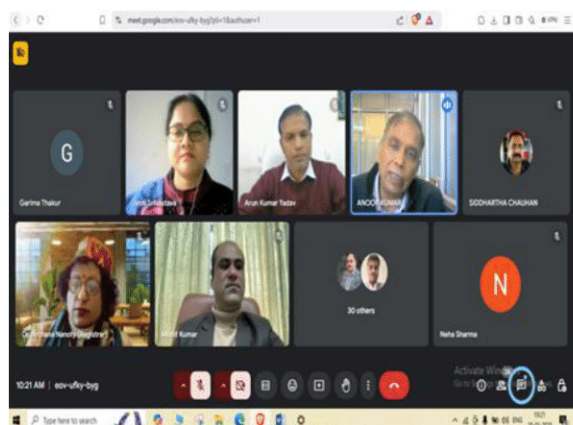


Placement Index

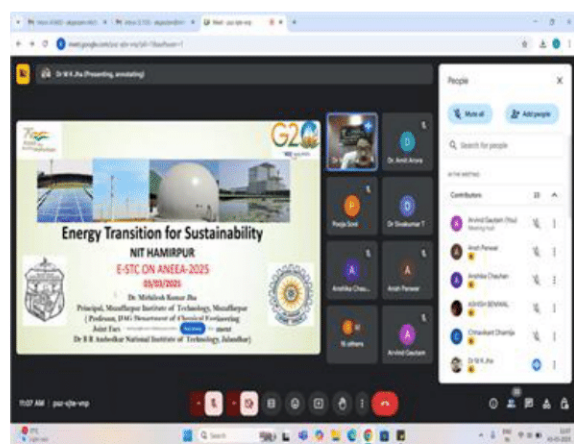
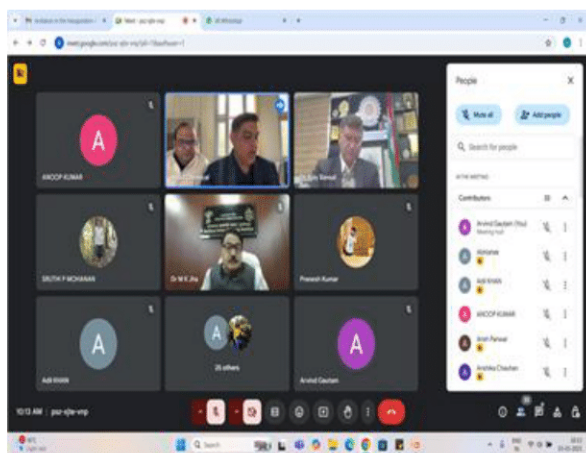
Branch	Eligible Candidates	Placed	% Placement	Total Jobs Offered	% Jobs offered to NITH	Max CTC (in lakhs)
Computer Science & Engg.	112	96	85.71	114	101.79	58
Computer Science & Engg. Dual Degree	25	23	92	26	104	32
Electronics & Comm. Engg.	97	78	80.41	92	94.85	53
Electronics & Comm. Engg. Dual Degree	19	17	89.47	15	78.95	41
Electrical Engg.	100	93	93	114	114	30
Engg. Physics	27	18	66.67	-	-	18
Material Science Engineering	25	25	100	-	-	10
Mathematics and Computing	41	35	85.37	-	-	53
Mechanical Engg.	107	100	93.46	122	114.02	205.5
Civil Engg.	71	62	87.3	66	92.96	21
Chemical Engg.	59	52	88.14	55	93.22	23.5
Architecture	31	31	100	31	100	7.1
M.Tech (All)	154	73	47.4	77	50	21.96
MBA	27	18	66.67	6	22.22	8.5

Workshops/FDP/STC/e-STC

1. This short-term course, Machine Learning and its applications in Information Security, Computer Vision and Natural Language Processing (MaLiCoN-2025), provided essential knowledge and skills required to perform machine learning based research in information security, computer vision & natural language processing for important problems encountered in academia & industry. A combination of lectures, case studies, and workshops were used to cover following representative topics of interest: Introduction to basics of Machine Learning and Deep Learning, Computer Vision and its applications, Network security, Information security threats and prevention strategies, Natural Language Processing, Applications of machine learning in speech, Examples use cases in focus areas using MatLab. The eSTC helped to disseminate knowledge in the highly desired areas of emerging importance such as applications of machine learning in information security, computer vision and natural language processing. In recent times, these niche areas have not been covered through the different initiatives taken by the Department and the Institute. The participants benefited by gaining theoretical and practical perspectives in these emerging and important domains by leading experts in the country. It helped to motivate students and young researchers to take up research and pursue pertinent research problems in these areas.



2. Please-STC: The nanomaterial shows many interdisciplinary applications in various fields including energy, environment and biomedical. Therefore, it is important to update the participants about the recent technologies and noble process which are involved to overcome the present and future challenges in development of nanomaterials for desired applications. Hence, this e-STC will be conducted to provide a virtual training on the latest and future role of nanomaterials to solve the complicated industrial and research problems. The problems and challenges related to multiple interdisciplinary areas of relevant field will be covered in this e-STC and is expected to guide the participants about the recent updates and technologies of nanomaterials.



3. The Department of Humanities and Social Sciences organised a Five-Day Workshop on " Rethinking Academic Writing in English Studies: 21st Century Principles and Connections [RAW] from 13th to 17th January 2025. The event was coordinated by Dr. Preeti Puri, Assistant Professor of English, Dr. Manoj Sharma, Associate Professor and Head of the Department and Dr. Yogesh Gupta, Associate Professor of Economics. The external expert of the workshop was Dr. Patrick

4. Five-Days e-Short Term Course (e-STC) on "Applications of GIS & other Analytical Tools in Architecture & Planning" from 24th February to 28th February 2025, organized by Dr. Rashmi Kumari Assistant Professor, DoA, NIT Hamirpur (H.P.) (Convener), Dr. Ashwani Kumar & Dr. Sourojee Dutta Assistant Professor, DoA, NIT Hamirpur (H.P.) (Coordinators). In recent times, immense applications of Remote Sensing (RS) data and Geographic Information System (GIS) are observed in various urban and rural studies. GIS techniques become potential and indispensable tools for solving many problems w.r.t spatial planning which co-relates spatial data and their attribute data, so as to use them in various fields. Especially with the change in the paradigm of usability of spatial data set through geo-informatics, it is the need of the hour to synchronize the learning and application of GIS. GIS also has multi-dimensional applications like disaster management, environmental management, water management, land records management etc. Therefore, there is a need to conduct such a program to make the students and scholars of Architecture and Planning aware about emerging research tools and techniques with the help of GIS. Besides, there are other analytical tools like SPSS, Design Builder etc. which are boosting research in the field of Architecture and Planning. This e-STC is going to be a learning platform for such tools and techniques.

National Programs (GIAN, etc.)

1. Cyber-physical systems (CPS) are the base for modern infrastructures and their applications in different domains such as energy, healthcare, transportation, and manufacturing. Security and safety of such wide infrastructure is paramount for the citizens to rely on its smart services and operations. It is vital to identify and monitor critical assets, services and crucial operations of the physical systems and apply intelligence to automate the process as well as detect and profile the attacks in real-time. Machine learning and deep learning techniques have shown promising results in detecting advanced threats, train and learn the system in federated environment, and handle big data generated from the physical systems (such as sensors, actuators and physical devices). Also, it is extremely important to understand the role of adversarial machine learning and how it could compromise the security of the system.

Course participants learned about these topics through lectures and hands-on experiments. Also, case studies and assignments were shared to stimulate research motivation of participants.

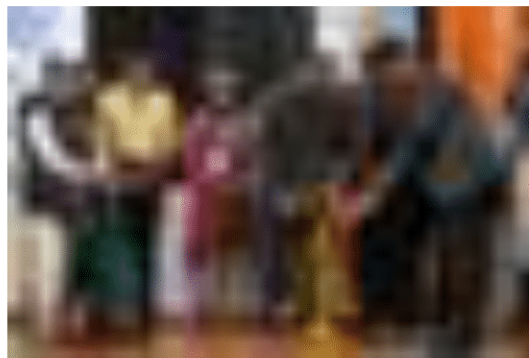
The primary objectives of the course are were follows:

1. Exposing participants to the fundamentals of the cyber-physical systems and AI-based applications
2. Building in confidence and capability amongst the participants in the application of the smart grid systems and relevant tools and techniques and mapping the activities and energy industry problems in terms of identifying critical assets and indicator of compromises in IT-OT scenarios
3. Providing exposure to practical problems and their solutions, through case studies and live projects in smart grid and electric vehicle scenarios
4. Enhancing the capability of the participants to identify, control and remove cyber-threats, risk management and incident responses in complex systems

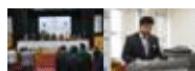


Conference Organized

1. The inaugural ceremony of the 2nd International Conference on Artificial Intelligence, Machine Learning & Intelligent Systems (ICAMS-2025) was held on February 7, 2025, at the National Institute of Technology (NIT) Hamirpur, Himachal Pradesh. Organized by the Department of Computer Science and Engineering, NIT Hamirpur. The ceremony featured distinguished guests, including Prof. H.M. Suryawanshi, Director of NIT Hamirpur, who emphasized the transformative role of AI across various domains. Other notable speakers included Prof. Lalit K. Awasthi, Vice-Chancellor of SPU Mandi, and Dr. Archana Nanoty, Registrar of NIT Hamirpur, who highlighted AI's impact on education and research. The event also welcomed experts from IIT Roorkee, JNU Delhi, and IIT Dharwad, who shared their insights on AI advancements and future directions. The Organising Chair for the event is Dr. Naveen Chauhan and Organising Secretary are Dr. Ajay Kumar Mallick & Dr. Mohammad Khalid pandit.



2. On 7th February 2025, the inaugural day of the ICAMS-2025 conference at NIT Hamirpur featured insightful sessions led by prominent experts in Artificial Intelligence and Machine Learning. The day began with keynote addresses highlighting cutting-edge research in intelligent systems, followed by technical paper presentations on topics such as computer vision, pattern recognition, and AI applications in healthcare. Interactive panel discussions fostered rich academic exchange, setting a strong tone for interdisciplinary collaboration throughout the conference.



3. On February 8, 2025, the second day of the International Conference on Artificial Intelligence, Machine Learning & Intelligent Systems (ICAMS-2025) at NIT Hamirpur featured engaging technical sessions and discussions. These sessions delved into advanced topics such as Generative AI, Edge AI, and AI applications in hardware, providing a platform for researchers and practitioners to share their latest findings and innovations. The conference facilitated interdisciplinary

collaboration and knowledge exchange among experts from academia and industry, fostering a vibrant community dedicated to advancing intelligent systems followed by Validatory session in the evening on 8th February 2025. The session was graced by distinguished guests, including Prof. H.M. Suryawanshi, Director of NIT Hamirpur, Other notable speakers included Prof. Lalit K. Awasthi, Vice-Chancellor of SPU Mandi, and Dr. Archana Nanoty, Registrar of NIT Hamirpur.



- As Internal Organizing Secretaries, Dr. Zareena J. M. and Dr. Rinshu and Dr Manoj Sharma as Chairperson and Copatron from the Department of Humanities and Social Sciences, NIT Hamirpur, organized the Northern Regional Conference of the Indian Association for the Study of Population (IASP) on the theme 'Demographic Dividend and Inclusive Growth in North India.' The conference was jointly organized with the Department of Humanities and Social Sciences, National Institute of Technology Hamirpur, and was held from 20th March 2025 to 21st March 2025.



Any Other Info

- Center of Excellence for Advanced Building Materials and Sustainable Development, inaugurated in the Department fo Civil Engineering.



2. MoU signed between NIT Hamirpur and Ultratech Cements Ltd., in the DoCE.



3. Dr. Preeti Puri, Assistant Professor of English from the Department of Humanities and Social Sciences was invited as the Chief Guest at Indian Institute of Information Technology (IIIT) Una to inaugurate a two-day seminar on " Professional Writing Practices for Engineering and Technology Students in International Settings" on 18th January 2025.



4. Alumni of 1998 Batch represented by Dr. Ashwani Kumar Rana and 1999 Batch represented by Dr. Vijay Kumar Bansal were felicitated during 15th Convocation of NIT Hamirpur held on 28th Oct 2024. During their respective Silver Jubilee reunion last year, 1998 batch donated an electric vehicle and 1999 batch donated an Ambulance to their alma mater. The contributions and spirit of giving back to the institutions of these batches is highly appreciated.

5. An engaging expert lecture and interactive session on "Practical Aspects of Architecture in India" was conducted on 6th March 2025. The session offered participants a deep dive into the practical dimensions of architecture in the Indian context, highlighting the country's evolving architectural landscape and the growing importance of sustainable design.

The event was led by Ar. Ashok Kumar Dhiman, Chief Architect at the New Delhi Municipal Council, who shared his extensive professional insights and real-world experiences. His session provided valuable perspectives on how traditional practices and modern innovations can harmoniously shape India's built environment.



6. A creative and engaging workshop titled "Origami: More Than Just Paper Folding" was conducted on 19th March 2025, bringing together students from various academic years. The session provided an exciting opportunity to delve into the artistic and scientific aspects of origami.

Participants took part in hands-on activities, crafting intricate and visually striking paper structures. Beyond its artistic appeal, the workshop highlighted how the fundamental principles of folding and patterning in origami can influence innovative design solutions—leading to stronger, more efficient, and adaptable structures across diverse fields such as architecture, engineering, and product design.



7. D-Hive 2025 proved to be the ultimate platform for students to unleash their creativity and showcase their artistic talents. Whether in painting, sculpting, crafting, or experimental design, participants rose to the challenge in this exciting timed competition.

The event brought together a vibrant mix of creative minds, each pushing their boundaries to produce works of fine art, intricate crafts, innovative sculptures, and unique design concepts—all under time constraints that tested their imagination and skill.



8. An expert lecture and interactive session on "Architecture of the Future, for the Future" was held on 7th March 2025. The session focused on the exciting convergence of architecture, technology, and sustainability, encouraging participants to embrace forward-thinking and innovative design philosophies.



The keynote speaker was Ar. Badrinath Kaleru, Principal Architect at Studio Ardete, Chandigarh. A gold medalist from IIT Roorkee, Ar. Kaleru is a leading voice in the architectural community of the Chandigarh Tri-State region. His insights shed light on how emerging technologies and sustainable practices are reshaping the future of architectural design.



9. We were honored to host an expert lecture and interactive session featuring the esteemed Mr. Rimpesh Sharma, fondly known as the "Temple Man of India." This enlightening session delved into the intricate world of Temple Architecture and the thoughtful design of spiritual spaces.

With decades of hands-on experience in temple design and construction, Mr. Sharma shared his unique perspective, blending age-old traditions with modern design sensibilities. His work reflects a deep understanding of spiritual energy and architectural innovation, offering invaluable insights to all in attendance.



10. A 5-day workshop designed to equip students with essential software skills critical to the field of architecture. Each day focused on specific tools and techniques that are shaping modern architectural practice.

Day 1 & 2: BIM with Revit (2nd & 3rd April)

The workshop began with an intensive session on Building Information Modeling (BIM) using Revit. Students gained hands-on experience in creating parametric models, generating construction documentation, and understanding the collaborative workflow of BIM in real-world architectural projects.



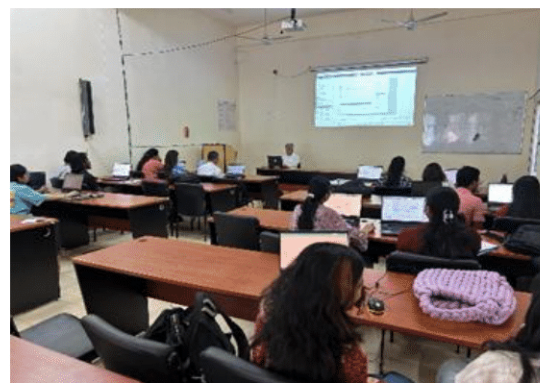
Day 3: Photoshop & Rhino (4th April)

The third day introduced students to the creative aspects of architectural visualization. Sessions covered Photoshop for visual communication and Rhino for parametric modeling. Students explored techniques for diagramming, conceptual expression, and 3D form generation to enhance design clarity and impact.

Day 4 & 5: Energy Simulation (5th & 6th April)

The final two days focused on sustainable design through Energy Simulation. Guided by expert speaker Ar. Aniket Chaudhary, students examined how environmental conditions influence building performance and how simulation tools can be leveraged to create energy-efficient, climate-responsive architecture.

This workshop provided a well-rounded exposure to contemporary digital tools, bridging the gap between academic learning and professional practice.



NIMBUS

As spring painted the campus of NIT Hamirpur in all its colour, technology bloomed like the northern lights —vibrant and full of promise. Under the theme Aurora: Archway to the Future, NIMBUS unfolded as a symphony of innovation and energy across three unforgettable days. The fest became a canvas for young minds to explore ideas, build solutions, and celebrate the spirit of discovery.

DAY 1:

With creativity in the air, NIT Hamirpur was set for a journey of innovation. The grand inauguration marked the beginning of NIMBUS—a moment of pride and anticipation. The Drone Experience Zone attracted curious visitors as drones soared through the skies. Meanwhile, the MTB Zone brought adrenaline to the ground. The Robowar event heightened the buzz, as the first set of battlebots entered the arena, thrilling the crowd. As evening arrived, Team Revanta presented their self-built cart—a true showcase of teamwork and technical brilliance. The audience stood amazed, and the day ended on a note of excitement for what was yet to come.



DAY 2:

Day 2 was a real test—not just for the technology, but for the resilience of the organising team, who carried on gracefully despite heavy rain. Workshops stole the spotlight, especially the Drone Workshop, where participants built and tested their own flying machines. Robowar returned for an intense showdown, where strategy and strength collided. Battlebots from across the nation clashed in cinematic duels, cheered



on by a roaring crowd. Meanwhile, the Hovercraft Showdown and RC Car Racing brought speed and spectacle, featuring both nitro and electric vehicles. On the academic side, Abhigya, the paper presentation event, showcased thoughtful research and innovation. As the day turned to night, Hack on Hills 6.0 kicked off—NIT Hamirpur's signature hackathon. Teams coded through the night, driven by ideas and coffee. The campus stayed alive, glowing with determination and discovery.



DAY 3:

The final day arrived with enthusiasm and anticipation. Flagship events concluded with grand finales, and the Prize Distribution ceremony celebrated not just winners but the effort and spirit of everyone involved. Special recognition was given to the clubs and teams who worked tirelessly to make Nimbus a reality. As the sun set, the Music Club gave a soulful performance, uniting the crowd in harmony under the stars. The closing ceremony wrapped up the fest, and as if on cue, fireworks lit up the sky—marking the end of three magical days.

Nimbus 2025 was more than a fest—it was an experience. A living proof that the future isn't just ahead of us. Sometimes, it begins right within us.





LITERACY MISSION

The Literacy Mission at NIT Hamirpur is more than just an initiative—it's a heartfelt journey of nurturing young minds and lighting little lamps of hope. With an average strength of 70 to 80 children, this mission has become a second home for many, a place where learning meets laughter and dreams are given wings.

With 70 to 80 children on average, the mission has developed into a thriving community of young students who arrive with open minds, eager hearts, and limitless potential.



The venue has been a hive of activity since the beginning of the year, hosting events and celebrating moments to be cherished for years to come.

The journey this year began on a patriotic note, with the celebration of Republic Day on the 26th of January. Through heartfelt dances and skits, our young stars filled the air with patriotism. Their enthusiasm was unmatched. It was a celebration of the spirit that these children, the youth of the country, hold. Soon after, we celebrated Matri-Pitra Pujan, a deeply emotional occasion where children honoured their parents with gratitude and affection.

their parents with gratitude and affection.

Watching them fold their hands, offer prayers, and speak words filled with innocence and love reminded us of the simple yet powerful values that form the foundation of this meaningful community.

As spring painted the campus in colours, Holi brought with it a splash of laughter and play. The students enjoyed Holi with the children smearing colours on each other's faces and hearts. The joy of playing Holi with our children was a reminder that love and happiness need no language, just presence.





Watching them fold their hands, offer prayers, and speak words filled with innocence and love reminded us of the simple yet powerful values that form the foundation of this meaningful community.

As spring painted the campus in colours, Holi brought with it a splash of laughter and play. The students enjoyed Holi with the children smearing colours on each other's faces and hearts. The joy of playing Holi with our children was a reminder that love and happiness need no language, just presence.

Amidst these celebrations came a moment that filled our hearts with unwavering pride. Arman, one of the children nurtured under the wings of the Literacy Mission, was selected for the Indian Navy. His journey from our evening classes to wearing the nation's uniform is a story of dreams realised.

The students were also encouraged to participate in their annual sports day, Spardha. As children gathered in true athletic spirits, the competitions were tough, not because of rivalry, but because every child had something special in them. It was a contest of talent and triumph.

This spirit of growth and courage was further seen in Prayas, one of our most treasured events. Children showed their high spirits and zeal. They rehearsed day and night and gave memorable performances. The stage was set on fire with their energetic dance performances that upheld the culture of different states across the country. Followed by a skit and speech, each performance felt like a quiet evolution where they celebrated themselves, overcoming all fears.



Through the speech they brought social issues such as child labour into light, provoking awareness and sentiment in the audience's hearts. The winners of Spardha were also awarded amidst a hall of applause on the stage.

NIT Hamirpur's Literacy Mission continues to walk beside these kids—not ahead of them, not behind them, but right next to them. Every celebration, every challenge, and every achievement serves as a reminder that real education involves more than just imparting knowledge; it also entails instilling dignity, igniting the courage to dream, and awakening their potential.

NITH in NEWS

The techfest of NIT Hamirpur kicked in with colors, with the primary focus on innovations and curiosity. The addresses to students during the opening emphasized co-working and innovating for the greater good of society. The inauguration was accompanied by the presence of Capt. Ajay Thakur, who shared his meaningful insights on many experiences. One of the main spectacles of the event was the RC racing, which hooked everyone. Other events included auto expo, exhibitions of different departmental clubs, and a countrywide hackathon.

On the second day of the ongoing tech fest, all departmental clubs presented their projects. The projects that stood out include ‘Quantumist,’ which assists precision fabrication; ‘Carbon Algae Bioreactor,’ which can prove helpful in the age of energy; and ‘Virtual Scalpel,’ which opens new horizons in the area of education. Others include ‘Automatic Waste Segregator’ and ‘Portable Power Generator.’.

रोबोवॉर्स में डिस्पेटीकॉन और आरसी रेस में आरटीआर विजेता

एनआईटी हमीरपुर में वार्षिक टेक फेस्ट निंबस 2025 का समापन, पुरस्कार बांटे

संवाद: न्यूज एडिटी



एन्फांटी हवीलपु के वार्षिक रोक रोक निष्का में विशेष टीम को नामांकित
कराई रजिस्ट्रार प्र. अर्जित संस्था गानेटी। स्रोत: संस्था

हबीरपुर): एनआईटी हबीरपुर ने जॉर्जिज जहानवी की मृत्युकास निष्पत्ति 2025 का सम्मान संस्मरण के औपचारिक रूप विष्टार में एक भाष्य सम्मान सम्मेलन के भाग हुआ। यह सम्मेलन सम्मेलन, रणनीतिक और जहानवी उद्योगिता की विशेषताओं में आधारित था।

इससे विभिन्न विधानों और सम्झौतों से आए प्रतिभाशाली छात्रों ने भाग लिया। सम्झौता सम्प्रेषित का माहौल सम्भाव्यपूर्ण था। इस दौरान संसदीय प्रणाली के प्रति अत्यधिक उत्साह और विश्वास का माहौल था।

समावेष्ट में प्रमुख व्यक्तियों के रूप में कानूनी निदेशक श्री. अरुण कुमार, रजिस्ट्रार डॉ. अरुण शर्मा, नवीनी, डॉन स्टूडेंट डॉ. आर.के. कुमार, डॉ. प्रदीप कुमार सिंह एवं मिस्टर डॉन, लक्ष्मीवी पीपीपीएल के इन्चार्ज डॉ. कवेरा शर्मा और डॉ. वीरेंद्र महाराज शर्मा

[illegible]

हार्दिकता टीम लोमेंगे स्वयं घर पर।
 टीका टुटिफिका में विजिता विजय,
 उन्डिलकल पदचरित्र और लोमेंगे स्वयं
 मेन्डोरफ को टीम पर। दूर दिखलक
 में विजिता विजय, उन्डिलकल
 में टुटिफिका व लोमेंगे स्वयं घर टुटिफिका
 पर टीम पर। उन्डिलकल में प्रेम टुटिफिका

आरम्भी रेस (इलेक्ट्रिक) में आरटीआर हबीज मिलेड, उपमिलेड पुरस्कार टीम कैप्टीनलवम और सीमा पुरस्कार ब्लैकडिप्ट के नाम रहा।

इस प्रकार आर्य समाज (नाटो) में विभिन्न आयतों का उपयोग किया जाता है। इसमें अनेक प्रकार के गीत और धार्मिक कृतियाँ शामिल हैं।

इस बीच पा. डी. रमेश शर्मा ने स्टूडेंट वॉर कमेटी के सदस्यों शिवाल कौटिल, अभिषेक, वज्रवत शर्मा, रौपर, अर्पण आनंद, और अभिषेक शेषल को निबन्ध-2025 के सरकारी प्रोग्राम और किंगडमन के लिए अभिवादन किया।

NITH in NEWS

पंजाब क़ेसरी MON, 07 APRIL 2025
EDITION: HAMIRPUR KESARI, PAGE NO. 2

एन.आई.टी. में रक्तदान शिविर आयोजित

हमीरपुर, 6 अप्रैल (राजीव) : एन.आई.टी. हमीरपुर ने छात्रों के बीच सामाजिक जिम्मेदारी और सामुदायिक सेवा को बढ़ावा देने के चल रहे प्रयासों के तहत डा. रमेशकृष्णन मैडिकल कॉलेज हमीरपुर के सहयोग से एन.आई.टी. हमीरपुर के स्वास्थ्य केंद्र में रविवार को रक्तदान शिविर का आयोजन किया।

इस शिविर में छात्रों, संकाय सदस्यों और कर्मचारियों की सक्रिय भागीदारी रही, जो करुणा और मानवता की भावना को दर्शाती है। इस कार्यक्रम का उद्घाटन एन.आई.टी. हमीरपुर की रजिस्ट्रार डा. अर्चना संतोष नानोटी ने किया। उन्होंने जीवन बचाने में रक्तदान की महत्वपूर्ण भूमिका पर जोर दिया, ऐसे सार्वजनिक कार्यक्रमों के आयोजन में एन.एस.एस. के प्रयासों की सराहना की।

इस अवसर पर गतिविधियों का समन्वयन डा. अमित चागे एफ.आई.एन.एस.एस. और एन.एस.एस. इकाई द्वारा किया गया। इस शिविर को आयोजित करने का उद्देश्य स्वैच्छिक रक्तदान के महत्व के बारे में जागरूकता बढ़ाना और छात्रों को इस नेक काम में योगदान देने के लिए प्रेरित करना रहा।



हमीरपुर : एन.आई.टी. हमीरपुर में आयोजित रक्तदान शिविर में एन.आई.टी. हमीरपुर की रजिस्ट्रार डा. अर्चना संतोष नानोटी रक्तदान करती हुई। (राजीव)

The students of NIT Hamirpur, in collaboration with RKGMC, organized a blood donation camp at the health center to promote civic responsibility and moral wellness. The camp saw active participation of students, work staff, and faculty. Everyone was obliged to participate more at such events and contribute towards the greater good of the society

सफलता एनआईटी हमीरपुर के विद्यार्थियों ने की खोज, लिखित कंटेन को स्कैन कर रियल टाइम में ब्रेल में पढ़ पाएंगे दृष्टिबाधित

अब कोई भी किताब पढ़ और सुन सकेंगे दृष्टिबाधित

कमलेश रतन भारद्वाज

हमीरपुर। दृष्टिबाधितों के लिए पढ़ाई अब और आसान हो जाएगी। एनआईटी हमीरपुर के मेकेनिकल इंजीनियरिंग विभाग के छात्रों ने एक ऐसा पोर्टेबल ब्रेल रीडर डिवाइस तैयार किया है, जो किसी भी लिखित कंटेन को स्कैन कर रियल टाइम में ब्रेल में तबदील कर देगा।

यह डिवाइस स्कैन किए शब्दों को आवाज में भी बदल देगा, जिससे यूजर उन्हें सुन भी सकता है। सबसे खास बात यह है कि यह डिवाइस बेहद कम लागत यानी महज 1400 रुपये में तैयार किया गया है, जबकि ऐसी तकनीक विदेशों में लाखों रुपये खर्च करने पर ही उपलब्ध होती है।

एनआईटी हमीरपुर के चौथे तृतीय वर्ष के छात्र शिबिर प्रियंक, द्वितीय वर्ष के छात्र कार्तिक शर्मा, अक्षय शर्मा, खुशी पांडेय और दिशा ने इस डिवाइस को संस्थान के वार्षिक टेक फेस्ट निंबस में प्रदर्शित किया। इस डिवाइस में रोबोटिक्स और कोडिंग का इस्तेमाल कर ब्रेल टेक्स्ट को उभारने की तकनीक अपनाई गई है।

इसके लिए माइक्रो कंट्रोलर, ईएसपी कैमरा मॉड्यूल और एसजी 90 सर्वो मोटर का उपयोग किया है। अब तक ब्रेल प्रिंटिंग के लिए भारी-भरकम और महंगे ब्रेल प्रिंटर इस्तेमाल होते थे। ये पर्यावरण के लिए नुकसानदायक भी थे। वहीं, यह डिवाइस पोर्टेबल है और कागज के इस्तेमाल की जरूरत भी नहीं है।

विदेश में महंगा, भारत में पहली बार : ऐसा रियल टाइम ब्रेल कलवर्टर डिवाइस अभी भारत में उपलब्ध नहीं है। अमेरिका और दूसरे देशों से इसे मंगाने पर करीब 2000 डॉलर (1.6 लाख रुपये) खर्च करने पड़ते हैं, लेकिन छात्रों ने इसे महज 1400 रुपये में तैयार कर मिसाल कायम की है। बड़े स्तर पर निर्माण होने पर इसकी कीमत घटकर 1000 रुपये तक आ सकती है।



डिवाइस तैयार करने वाले विद्यार्थी। संवाद

The students of the Department of Mechanical Engineering were able to make a portable Braille reader, which is a breakthrough innovation in the world of the blind. Prior to this, there was no braille reader available in India, and the one abroad cost upwards of 2000 dollars, whereas these students were able to make one for just 1400 rupees. With the use of some computer algorithms, a microcontroller, and a camera module, the texts are interpreted without any use of paper, promoting sustainability.



NITH in NEWS

During the Techfest, many innovations were seen. Primarily in the fields of environment, medical sciences, and industries. Maximum projects included artificial learning, machine learning, and deep learning. Projects include a green library, algae biofuel, electricity from stubble, virtually assisted surgery, smart parking, an automatic waste segregator, a virtual scalpel, a portable power generator, and a drone-based mapping and planning system.



पराली से बिजली, वर्चुअल रियलिटी से सर्जरी के अभ्यास की एआई तकनीक दर्शाई एनआईटी हमीरपुर के टेक-फेस्ट में दिखी नवाचारों की झलक; विद्यार्थियों ने पर्यावरण, उद्योगों और मेडिकल साइंस से जुड़े आइडिया किए पेश

संवाद न्यून एजेंसी

हमीरपुर। एनआईटी हमीरपुर में चल रहे टेक-फेस्ट निबस में नवाचारों की झलक देखने को मिली। विद्यार्थियों ने पर्यावरण, उद्योगों के अलावा मेडिकल साइंस से जुड़े अनेकों और उपयोगी आइडिया पेश किए। ये पर्यावरण संरक्षण, औद्योगिक क्षेत्र, मेडिकल साइंस में कारगर साबित हो सकते हैं। अतिरिक्त में आर्टिफिशियल इंटेलिजेंस (एआई), मशीन लर्निंग और डीप लर्निंग का बेहतरीन समन्वय देखने को मिला।



टेक फेस्ट में पेश नए आइडिया के मांडन का निरीक्षण करती रिसर्चर डॉ अर्चना मानोटी।
यल्लुकल विभाग के छात्रों ने शांत और पेड़ों की छांव में अध्ययन के लिए डिजाइन
हरीत तटस्थता की कल्पना प्रस्तुत की, जिसे किया गया है। वहीं, कुछ छात्रों ने जैवाल से

काबेकमूल बनाने, पराली से बिजली उत्पादन और उससे उत्पन्न धुएँ से इन बसाने का मुद्दा दिया। मेडिकल क्षेत्र में छात्रों ने वर्चुअल रियलिटी आधारित सर्जिकल ट्रेनिंग सिस्टम तैयार किया है, जिसमें विशेष गलब की मदद से असली ऑपरेशन जैसा अनुभव प्राप्त होता है। इसके अलावा, स्मार्ट पब्लिशिंग एप भी चर्चा में रहा, जो ड्राइवर्स को आस-पास के खाली पार्किंग स्पॉट्स की जानकारी रिमोट-टाइम में देता है। इसमें टैक्सी चाली, नेविगेशन और सिक्कियर पेमेंट जैसी सुविधाएँ शामिल हैं। वहीं, ऑटोमेटिक वेस्ट सेग्रेगेशन, वर्चुअल स्कैन्डल और टीम ओजस की ओर से तैयार पोर्टेबल पावर जेनरेटर ने भी सभी का ध्यान खींचा।

गणित और कंप्यूटिंग विभाग की ओर से तैयार ड्रोन-बेस्ड थ्रीडी मॉडलिंग सिस्टम विशेष आकर्षण का केंद्र रहा, जिसे सहजी योजना और भीमोबिलिटी किरलोपण में उपयोगी बताया गया। देर शाम हुए रोबोकार और आरसी रेस में छात्रों द्वारा बनाए गए रोबोट्स ने रोमांचक मुकाबले पेश किए। इवेंट्स में न केवल तकनीकी कौशल

बल्कि टीमवर्क और नवाचार में विद्यार्थियों की गहरी समझ को दर्शाया गया। संस्था के कार्यकारी निदेशक प्रो. अनूप कुप और रजिस्ट्रार डॉ. अर्चना संतोष नायोटी कहा कि निबस फेस्ट छात्रों को नवाचा के मंच पर खाने और नवीनतम तकनीक को प्रदर्शित करने का अवसर देता है। उन्होंने कहा कि इस बार एआई सहित कई आधुनिक तकनीकों पर आधारित प्रोजेक्ट्स प्रस्तुत किए गए हैं, जो भविष्य की संभावनाओं को दर्शाते हैं। रियरब व इसका समायोजन होगा।

The departmental club of Material Science developed a new and efficient solar panel that's not only transparent but also can be easily fitted into home windows.

As to orthodox solar panels, which use costly semi-metals, the panels developed here are cost-efficient in nature and are mostly made up of recycled materials.

NITH in NEWS

हिमाचल



एनआईटी हमीरपुर में हैक 5.0, टीम नल पॉइंटर्स ने एआई एमएल ट्रैक में पहला पुरस्कार जीता



हमीरपुर, (सुरेंद्र कटोच)। एनआईटी में हैक 5.0 के अंतिम दिन रचनात्मकता और तकनीकी उत्कृष्टता की एक तीव्र परिणति देखी गई। समापन समारोह की शुरुआत नाटी क्लब के अद्भुत प्रदर्शनों के साथ हुई। इस कार्यक्रम में निदेशक प्रो हीरलाल मुरलीधर सूर्यवंशी, रजिस्ट्रार डॉ अर्चना संतोष

नैनोटी, डीन छात्र कल्याण डॉ अशोक कुमार सहित कई विशिष्ट अतिथि मौजूद थे। विशेष ट्रैक में टीम नल पॉइंटर्स ने एआई एमएल ट्रैक में अपने असाधारण काम के लिए सुर्खियां बटोरीं, पहला पुरस्कार जीता, जबकि दूसरा और तीसरा स्थान टीम नेक्स्टमेड और टीम हंटर्स ने हासिल किया। ब्लॉकचेन और

डीफाई ट्रैक में नवाचार ने निष्पादन को पूरा किया क्योंकि टीम हैलीज ने पहला पुरस्कार जीता, उसके बाद टीम नल और टीम पाइडपाइप्स ने क्रमशः दूसरा और तीसरा पुरस्कार जीता। ओपन इनोवेशन ट्रैक में रचनात्मकता की लहर देखी गई जिसमें टीम पार्टटाइम ह्यूमन्स ने पहला पुरस्कार जीता टीम रनटाइम

टेरर्स ने दूसरा स्थान प्राप्त किया और टीम कोर्टेक्स ने तीसरा स्थान हासिल किया। ऑल गल्स टीम द्वारा उत्कृष्ट प्रदर्शन को मान्यता देते हुए बेस्ट ऑल गल्स टीम अवार्ड टीम नूबकोडर्स को प्रदान किया गया, जबकि टीम 404 टीम नॉट फाउंड को प्रथम वर्ष के छात्रों की प्रभावशाली क्षमता का प्रदर्शन करते हुए बेस्ट बिगिनर हैक देने के लिए सम्मानित किया गया। असाधारण उपलब्धि और नवाचार के लिए ओवरऑल ग्रैंड प्राइज टीम डेजलोपर्स को दिया गया जिसने इस कार्यक्रम के विजयी समापन को चिह्नित किया। आयोजन टीम को संस्थान के संकाय के साथ-साथ कार्यक्रम के भागीदारों द्वारा कार्यक्रम के सुचारु संचालन के लिए सराहना की गई।

The Hack 5.0 was concluded successfully with many innovations in the fields of education, healthcare, and other areas. Extensive use and promotion of AI were seen in almost every project. Different tracks were there for participation catering.

Competents from many colleges from different regions had come. Team Null Pointers won the first prize in the AI/ML track. Team Helliz won the first in the blockchain track, while the open innovation track was won by team Part-Time Humans. The grand prize was won by Digilopers.

On the ending note of the Techfest of NIT Hamirpur, gratitude was presented to everyone who poured their hearts out to make it such a remarkable success. Team Vibhay, the departmental club of Electronics and Communication engineering, was declared the overall winner considering their widespread events and projects.

During this same commemoration event, the winners of events like RC racing and Robowars were also declared. Disapticons won both categories(15kg,8kg) of s. The RC race also had two categories (electric and nitro), which were both won by RTR Hobbies.

संस्थान पत्रिका

उत्क्रांत

संस्करण 15 अंक 2

“सपनों को साकार करने का पहला कदम है
खुद पर विश्वास करना।”

DR. NEETU KAPOOR

FACULTY INCHARGE

CHINMAY SHARMA

EDITOR IN CHIEF

SAVITA DIXIT

DESIGN HEAD

NATIONAL INSTITUTE OF TECHNOLOGY

HAMIRPUR (H.P) INDIA - 177005

TEL :- 91- 01972-25011

राष्ट्रीय प्रौद्योगिकी संस्थान

हमीरपुर (हिमाचल प्रदेश) भारत - 177005

फोन :- 91- 01972-25011