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A NEWSLETTER OF JUIT

Hilly Ramblings



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JAYPEE | **IGNITED MINDS**
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A PROUD ACHIEVEMENT IN EXCELLENCE!



From 2024 to June 2027



Our BTech Biotechnology Program
of the department of
Biotechnology and Bioinformatics,
JUIT, Solan H.P. is again
NBA ACCREDITED -
Raising the bar in education

Welcome
to JUIT family

Mr. Manu Bhasker Gaur Ji
Chief Executive Officer, JUIT





PATENTS

Design Patent Granted:

- **“Solar powered go cart”**, Inventors: Vikas Baghel, Nishant Jain, Shruti Jain. / Journal No is 36/2024 and Journal Date is 06/09/2024.
- **“AI-Powered Smart Nail Clipper”**, Inventors: Deepak Gupta, Ekta Gandotra, Anita Sardana, and Devansh Moudgil. / Journal No is 41/2024 and Journal Date is 11/10/2024.
- **“AI-Enabled Smart LPG Cylinder”**, Inventors: Deepak Gupta and Ekta Gandotra. / Journal No is 42/2024 and Journal Date is 18/10/2024.
- **“Personal Belongings Monitoring Device”**, Inventors: Anita Sardana, Ekta Gandotra, and Deepak Gupta. / Journal No is 42/2024 and Journal Date is 18/10/2024.

Patent Published:

- **“A System and Method for Remote Door Lock Automation with Advanced Security Features”**.
Inventors: Manav Modi, Vridhi, Rajiv Kumar, Date: October 11, 2024.
- **“Integrated Smart Water Bottle System For Hydration Monitoring, Medication Management, And Temperature Control”** / Inventors: Ekta Gandotra, Deepak Gupta, Anita Sardana, Nancy Singla, Date: October 11, 2024.
- **“A System and Method for Detecting Forgotten Belongings and Monitoring Individual Movements”**
Inventors: Anita Sardana, Ekta Gandotra, Deepak Gupta, Date: October 11, 2024.
- **“Blockchain-Based Paper Leak Prevention System for Secure Exam paper creation and distribution”**
Inventors: Seema Rani, Aayush Sharma, Date: October 11, 2024.
- **“Intelligent Gas Stove System With Ai-Controlled Flame, Gas Leak Detection, And Multi-Functional Burners”** / Inventors: Ekta Gandotra, Deepak Gupta, Date: October 4, 2024.

Patent Filed:

- **“A Green Biocomposite of Wheat Straw, Mycelium, and Pine Needle for Cushioning in Packaging Applications”**. / Inventors: Himanshu Kumar, Suhani Bhgata, Anil Kant . Date: October 28, 2024.

Design Patent Filed:

- **“Dual Open fruit Harvesting Bag”** Inventors: Technology Incubation and Entrepreneurship Development Cell (TIEDC), Suraj Kumar. Date: September 2, 2024

Copyright:

- **“AI-Powered Spiritual Intelligence Apps for Ethical Decision-Making and Employee Well-Being”**.
Inventors: Rajender Jamwal, Aman Sharma, Tanu Sharma. Date: October 4, 2024.

PADAM SHRI PADAM BHUSHAN: DR. ANIL PRAKASH JOSHI

On October 8, 2024, JUIT hosted Padam Shri, Padam Bhushan Dr. Anil Prakash Joshi in JUIT. Dr. Joshi is the Founder of Himalayan Environmental Studies Conservation Organization (HESCO), Dehradun-Uttarakhand. Dr. Joshi is the recipient of many prestigious awards Padma Bhushan, Padma Shri, Jammalal Bajaj Award, Ashoka Fellowship, The Week Man of the Year Award, and Jawaharlal Nehru Prize bestowed upon by ISC. Dr. Anil Prakash Joshi is an environmentalist, green activist, and the founder of Himalayan Environmental Studies and Conservation Organization (HESCO), a Dehradun-based voluntary organization. His work majorly includes developing sustainable technologies that are ecology inclusive economy for ecosystem development. He has coined GEP (gross environmental product), an ecological growth measure parallel to GDP. GEP has been accepted as a growth measure by the state of Uttarakhand on June 5, 2021. He was selected as the man of the year by Week Magazine in 2003. He is a recipient of the Jammalal Bajaj Award and is an Ashoka Fellow. The Government of India awarded him the fourth highest civilian honour of the Padma Shri, in 2006, for his contributions to Indian society. He was also awarded Padma Bhushan, third highest



civilian award in 2020 for environmental conservation in Uttarakhand. Dr. Joshi appeared in the Kaun Banega Crorepati, Karamveer episode, aired on December 25, 2020. Dr. Joshi has launched several social programs, based on resource-based rural development, such as *Women Technology Park*, *Technology Intervention for Mountain-Eco System*, *Ecological Food Mission in Mountain* and *Women's Initiative for Self Employment* (WISE) and has been reported to be successful in providing the villages with

water mills, composting pits, toilets, plant-based drugs and herbal pesticides and rainwater harvesting techniques. Finding usages for a local shrub, *Kurri*, which had been considered a weed, by utilising it for making furniture, incense sticks and using the left-overs as fodder was one initiative developed by Joshi. He is credited with over 60 articles and ten books on the subject.

Dr. Anil Prakash Joshi and his organization HESCO will work closely with the Centre of Sustainable Technologies for Rural Development (CESTRD) of JUIT. CESTRD focuses on the development of rural personnel and imparts awareness about the recent sustainable technologies for their convenient livelihood. The CESTRD transfers technologies to the rural people especially in the field of bioenergy.

KIRAN SETH'S VISIT TO CAMPUS

On September 1, 2024, JUIT hosted Dr. Kiran Seth, Padma Shri awardee, Spic Macay founder, and IIT Delhi Professor Emeritus. Dr. Seth shared his passion for preserving Indian culture, captivating the audience with insights on Spic Macay's mission. He led a practical yoga session, demonstrating postures to enhance relaxation, focus, and

productivity. He also showcased Indian classical dance forms, emphasising their role in personal growth and cultural preservation. Dr. Seth's visit inspired attendees to embrace mindfulness, balance, and cultural awareness in their lives. The event concluded with heartfelt applause, marking an unforgettable experience for all.



RIDE HACK PHASE 2

Team ReZen from JUIT achieved the second position at the highly competitive RIDEHACK Phase 2, 2024 for their innovative solutions and exemplary teamwork. The event, held from September 28-29, 2024 at Jaypee Institute of Information Technology, Noida, saw participation from over 100 teams across various Jaypee Higher Education System (JHES). The team consisting of Yash Tripathi, Saurav Kumar, Shreya Tyagi and

Shubhrang Raj stood out for their technical ingenuity and collaborative spirit. Further highlighting JUIT's strong performance, all five of its teams (Look Tech AI, Entique, ReZen, Trash2treasure, and Tree as Natural Turbines) successfully qualified for Phase 3 of the competition, reinforcing the university's reputation for fostering talent and technical excellence.



MEMORANDUM OF UNDERSTANDING (MOU)

A Memorandum of Understanding (MOU) has been established (October 25, 2024) between JUIT and Federal Research Centre - Pushchino Scientific Center for Biological Research of the Russian Academy of Sciences (PSCBR RAS) for a duration of five years. The MOU facilitates close collaboration between the Department of Biotechnology and Bioinformatics (JUIT) and G.K. Skryabin Institute of Biochemistry and Physiology of Microorganisms at PSCBR RAS.

Ph.D. Completed:

- **Nidhi Sharma (CSE-166206) completed her Ph.D. in September 2024. The title of her thesis was:** Security and Privacy Preservation in Environmental Monitoring and Healthcare Applications.
Supervisors: Dr. Ravindara Bhatt
- **Lalita Sharma (BT-186554) completed her Ph.D. in September 2024. The title of her thesis was:** Synthesis, Characterization, and Biological Evaluation of Cationic Peptide Based Compounds.
Supervisors: Prof. Gopal Singh Bisht
- **Piyush Sewal (CSE-196211) completed his Ph.D. in September 2024. The title of his thesis was:** Improving Execution Workloads In In-Memory Distributed Computing Platform-Spark.
Supervisors: Dr. Hari Singh
- **Praveen Modi (CSE-166217) completed his Ph.D. in October 2024. The title of his thesis was:** Design of Efficient Classifiers for Diabetic Retinopathy.
Supervisors: Dr. Yugal Kumar
- **Niveditta Thakur (ECE-196003) completed her Ph.D. in October 2024. The title of her thesis was:** Neighborhood Processing Based Spatial Filtering Approaches for Adaptive Image Enhancement and De-Noising
Supervisors: Dr. Nafis Uddin Khan, Dr. Sunil Datt Sharma

INTERNATIONAL CONFERENCE ON RECENT DEVELOPMENTS ON INTERFACES OF CHEMISTRY, BIOLOGY AND MATERIAL SCIENCES

International Conference on Recent Developments on Interfaces of Chemistry, Biology and Material Sciences towards Health and Environment was organized from October 8-10, 2024 by Centre of Sustainable Technologies for Rural Development and Department of Biotechnology and Bioinformatics which was funded by Anusandhan National Research Foundation. The chief guest of the event was Dr. Anil Prakash Joshi (Padma Bhushan, Padma Shri & Jannalal Bajaj Awardee). Other eminent speakers across the globe and from various Indian Universities including Prof. R.K. Sani (USA), Prof. Yen Wah Tong (Singapore), Prof. V.K. Thakur (UK), Prof. Felix Bast (CU Punjab) and Prof. Venkata Krishnan (IIT Mandi) delivered



their lectures to describe the role of chemistry, biology and material sciences in environmental sustainability.

INTERNATIONAL CONFERENCE ON CIVIL, MATERIALS, AND ENVIRONMENT FOR SUSTAINABILITY (ICCMES 2024)

The International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024) successfully took place from October 4-5, 2024 at Department of Civil Engineering. Dr. Saurav, Conference Chair, delivered the opening remarks, highlighting the importance of sustainability in modern infrastructure development. This was followed by a welcome address from Shri Manu Bhaskar Gaur ji, the Chief Executive Officer of JUIT, emphasizing the role of academia and research in driving global sustainability initiatives. Prof. Dr. Ashish Kumar, Head of the Civil Engineering Department, concluded by highlighting the importance of sustainability in modern infrastructure development. Dr. Sushil Kumar Himanshu delivered a lecture on “Modern Technologies for Smart and Sustainable Irrigation Management”, Dr. Rohit Tiwari delivered a lecture on “Physical Model Testings in Geotechnical Earthquake Engineering”, Dr. Harinarayan Tiwari delivered a lecture on “Risk-Informed Dam Safety



Management”. With over 140 papers submitted from different countries, the sessions offered diverse perspectives on sustainable materials, advanced construction techniques, environmental protection, and resource management. ICCMES 2024 concluded with a closing ceremony, where the organizing committee expressed their appreciation to all the speakers, participants, sponsors, and volunteers who made the event a success.

JUIT-STEM QUEST

Prof. Sudhir Kumar and Dr. Ankush Tanta recently introduced JUIT-STEM QUEST to 12th-grade students from both medical and non-medical streams. This state-level quiz competition offers attractive rewards, including scholarships, cash prizes, mementos, and certificates for the top 50 students of 12th science stream. They emphasized the value of STEM education in fostering blended learning environments and demonstrating the application of the scientific method in everyday contexts.

- **Visit to Jawahar Navodaya School, Recong Peo, Kinnaur:** Prof. Sudhir led an experimental session for 11th and 12th graders, where they performed the KOH String Test to identify Gram-positive and Gram-negative bacteria. This hands-on experiment engaged students and the science faculty, leading



to a successful completion. Students asked insightful questions, reflecting their keen interest in the subject matter. The JUIT team expressed gratitude to Principal Madam Asha for her warm welcome and support in organizing the STEM-QUEST, and they acknowledged Sh. Arun, the school's Biology faculty, for his assistance during the quiz.

- **Visit to Kendriya Vidyalaya (KV), and S D Public School, Recong Peo, Kinnaur October 23, 2024:** The JUIT Team met with Principal Sh. Sanjiv Rana of KV School and the coordinator of SD Public School to discuss the significance and execution of JUIT-STEM QUEST. They provided insights into the competition's objectives and benefits. Additionally, a brief interaction with 12th-grade students from KV School took place, allowing them to learn more about the initiative and engage with the JUIT representatives.
- **Visit to Govt. Senior secondary School, Recong Peo, Kinnaur, October 24, 2024:** JUIT STEM QUEST was held on the premises of the school, where students from 11th and 12th both medical and non-medical streams actively participated. Prof. Sudhir Kumar provided hands-on training in basic microbiology test. The JUIT team expressed their gratitude to Principal Mr. Jia Lal Negi for his support and the faculty of Chemistry, for his cooperation during the visit.
- **Visit to Govt. College, Recong Peo Kinnaur, October 24, 2024:** The JUIT team met with Principal Dr. Uttam Chauhan, who warmly welcomed them and provided a tour of the campus. During the tour, he shared new initiatives into the college's new infrastructure development, which the JUIT team appreciated. A detailed discussion took place regarding the signing of a Memorandum of Understanding (MoU) between JUIT and Government College, Kinnaur, with plans to finalize the agreement in the near future. Additionally, a Faculty Development Program (FDP) focused on teaching methodology for the college faculty was also proposed for upcoming implementation.
- **Visit to Project Senior Secondary School Bhaba Nagar, Kinnaur, October 25, 2024:** The JUIT team visited the school premises and met the Principal. 12th medical and non medical stream students were offered knowledge about JUIT-STEM QUEST and its importance in preparing NEET/JEE exams. JUIT STEM QUEST was conducted in the school with notable participation of students.

- **Visit to Jindal Vidya Mandir School, Sholtu, Kinnaur, October 25, 2024:** Prof. Sudhir Kumar and Dr. Ankush Tanta met with school authorities to present the JUIT-STEM QUEST initiative, which received enthusiastic approval for implementation in the near future. The school, previously known as Jai Jyoti School, was established by Jaiprakash Associates Limited. The staff expressed their gratitude towards Jaypee Management, sharing numerous positive experiences that highlighted their generosity and support for the school community.



- **Visit to Delhi Public School, Jhakri, Kinnaur, October 25, 2024:** The outreach team visited DPS Jhakri and had an interaction with school Principal and Science Coordinator. They were briefed about JUIT STEM QUEST and question papers were handed over to coordinator. STEM QUEST to be conducted in near future as conveyed by the coordinator.



- **Visit to Spring Dale School, and Himalayan Public Senior Secondary School, Rampur, Shimla, October 25, 2024:** Dr. Ankush Tanta visited Spring Dale School and provided an insight and significance of JUIT-STEM QUEST for 12th science stream students. The coordinator faculty members were appreciative of this effort and committed to conduct the test soon for their students.

- **Sunshine Public School :** Dr. Tanta and Prof. Sudhir visited Sunshine Public School, which focuses on commerce in the 12th grade. They discussed the strengths of the JUIT BBA program with the school principal and extended an invitation for her and students to visit JUIT.

CAREER GUIDANCE & E-RESOURCE MANAGEMENT

On September 27, 2024, a Career Guidance & E-Resource Management event was held at Govt. Senior Secondary School, Domehar, organized by members of the Unnat Bharat Abhiyan (UBA), under the supervision of the college placement officer, Mr. Pankaj Kumar. The event aimed to promote career awareness and provide insights into future career options, including paths in the

Army, Law, Civil Services, and the teaching profession. A significant aspect of the event was the introduction of e-resources, such as AI-powered tools and platforms like Harghar Pathshala and NDLI, which were presented to students as innovative methods to enhance their learning experience.



FACULTY CORNER

- **Prof. Ashok Kumar Gupta** attended 1-Day UHV-Leadership Development Program (UHV-LDP) held at Himachal Pradesh Technical University Hamirpur held on October 26, 2024.
- **Prof. Sudhir Kumar** was the resource person in an FDP organized by Desh Bhagat University, Mandi Gobindgarh, Punjab on Teaching methods and Innovations on September 26, 2024
- **Prof. Tiratha Raj Singh** delivered a one day session in ‘One Week Faculty Development Programme’ on “*Network Science: An Interdisciplinary Approach*” on October 9, 2024, organized by Teaching-Learning Center, DIT University, Dehradun, Uttarakhand. The topic of his session was “*Complex Biological Networks: Analysis and Annotation*”.
- **Prof. Shruti Jain** delivered lecture in one week Faculty Development Program (FDP) on "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications" by Department of Electronics and Communication Engineering, JUIT in collaboration with Electronics & ICT Academy, and Centre for Development of Advanced Computing (C-DAC), Mohali from September 2-7, 2024 on Bioengineering Breakthroughs: Pioneering Advances in Health and Environment” .
- **Prof. Shruti Jain**, chaired a session in IEEE TENSYP2024 at Welcome Hotel, Sector 10, Dwarka, New Delhi on September 27, 2024.
- **Mr. Kaushal Kumar** was awarded a Certificate of Appreciation for his presentation on "*Strength and Durability Assessment of High Strength Concrete with Processed and Unprocessed Recycled Aggregates*" at the ICCMES 2024 conference, held October 4-5, 2024.
- **Prof. Shruti Jain** organised Membership development Congress, during IEEE International Conference TENSYP2024 at NSUT, Delhi from September 28-29, 2024.
- **Mr. Kaushal Kumar** participated in the 5th International Conference on Trends & Recent Advances in Civil Engineering (TRACE-2024) held on October 15-16, 2024, at Amity University, Uttar Pradesh. He presented a paper on the effects of recycled concrete aggregates on high-strength concrete properties.
- **Dr. Kushal Kanwar**, published paper entitled “A survey on feature extraction and learning techniques for link prediction in homogeneous and heterogeneous complex networks” in the “Springer Netherlands” with impact factor of 10.1.
- **Dr. Vipal Sharma**, published paper entitled "A survey of deep learning techniques for detecting and recognizing objects in complex environments" in the “Computer Science Review” with impact factor of 13.3



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

Faculty @JUIT, Wagnaghat

Listed in World's Top 2% Scientist's, 2024
Researchers list, published by The Stanford University, Elsevier.



Prof. (Dr.) Shruti Jain
Associate Dean (I)



Dr. Pardeep Kumar
Professor, CSEAIT



Dr. Garlapati Vijay Kumar
Associate Professor, BT&I



Dr. Naveen Jaglan
Associate Professor, ECE



Dr. Ashok Kumar Nadda
Assistant Professor, BT&I

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Certificate of Appreciation

ICCMEs 2024

INTERNATIONAL CONFERENCE ON CIVIL, MATERIALS AND ENVIRONMENT FOR SUSTAINABILITY

We are pleased to award this certificate to Mr. Kaushal Kumar from Jaypee University of Information Technology, Wagnaghat, Solan, India for his research contribution and presentation for Paper entitled *Strength and Durability Assessment of High Strength Concrete with Processed and Unprocessed Recycled Aggregates* in an International Conference on Civil, Materials and Environment for Sustainability held at Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh, India during 4th - 5th October 2024.

Dr. Vipal Sharma
President General of Chair, ICCMEs 2024



congratulations

DR. VIPAL KUMAR SHARMA

DR. V. K. SHARMA, DEPARTMENT OF CIVIL ENGINEERING, JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAGNAGHAT, SOLAN, HIMACHAL PRADESH, INDIA



DR. KUSHAL KANWAR

Congratulations

He has published a journal article 'A Survey on Feature Extraction and Learning Techniques for Link Prediction in Homogeneous and Heterogeneous Complex Networks' in a prestigious journal 'Artificial Intelligence Review'.



AMITY UNIVERSITY

A RESEARCH & INNOVATION DRIVEN UNIVERSITY | GRADE 'A' ACCREDITED BY NAAC

5th International Conference on Trends and Recent Advances in Civil Engineering (TRACE-2024)

Organized by
DEPARTMENT OF CIVIL ENGINEERING
AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY
AMITY UNIVERSITY UTTAR PRADESH, NOIDA

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Kaushal Kumar from Jaypee University of Information Technology, Wagnaghat has participated and presented research paper on 'Effect of Unprocessed and Processed Recycled Concrete Aggregates on the Mechanical Properties of High Strength Concrete in the 5th International Conference on 'Trends & Recent Advances in Civil Engineering' (TRACE-2024) held on 15th - 16th October, 2024 at Amity University Uttar Pradesh, Noida.

EUREKA

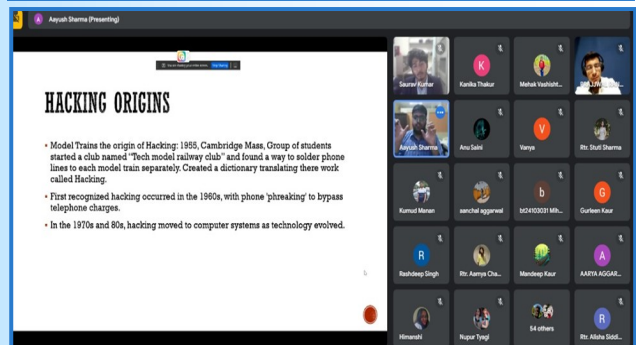
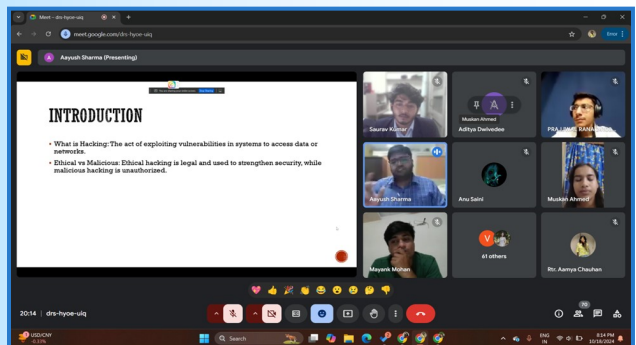
On September 15, The Rotaract Club of Wagnaghat, Rotary Club of Shimla, and the Centre of Excellence in Artificial Intelligence for Education hosted *Eureka*, a vibrant Engineer's Day celebration honoring engineers' contributions to society while fostering innovation among students. The chief guest of the event was Er. Rakesh Kumar Thakur, a respected DRDO scientist, received special recognition for his exceptional contributions to engineering. Addressing the attendees, Er. Thakur encouraged students to explore and innovate, emphasizing the importance of advancing technology to solve real-world challenges. His words left a lasting impression, motivating aspiring engineers. Eureka's highlight was an inspiring showcase of student projects judged by a panel of experts. Team Obscura (Kartik Sharma, Khushi Goyal, Rajluxmi Singh) claimed first place with a prize of Rs. 5000, followed by Team Nirvana (Krishna Pratap Singh, Haripriya Tripathi, Akash Pratap Singh) in second (Rs. 3000) and Team Bug



Brigade (Ritik Joshi, Omansh sharma, Kritika Pandey) in third (Rs. 2000). Each team demonstrated remarkable creativity, earning applause for their ingenuity and potential impact. Rotarians and other distinguished guests also shared their experiences, underscoring the evolving role of engineers as societal leaders and innovators. Eureka was a fitting tribute to engineers, celebrating achievements and inspiring the next generation to lead with creativity and purpose.

CYBER VIGILANCE WORKSHOP

On October 18, 2024 The Rotaract Club of Wagnaghat held a successful Cyber Vigilance Workshop, featuring Mr. Aayush Sharma as the guest speaker. The workshop aimed to raise cyber-security awareness among students, emphasizing the importance of digital safety in today's online landscape. The event opened with welcoming remarks by Rtr. Saurav Kumar, who co-anchored the session with a fellow Rotaractor. Rtr. Bhavika introduced participants, setting a collaborative tone for the workshop. Mr. Aayush Sharma led an engaging discussion on cyber threats, equipping students with practical tools to protect personal data and maintain digital vigilance. His talk resonated strongly with the audience, sparking an interactive Q&A session. Participants from various clubs joined, expanding the outreach and fostering valuable connections among attendees.



KALARIPAYATTU PERFORMANCE LIGHTS UP JUIT

JUIT hosted an electrifying Kalaripayattu performance, celebrating India's martial arts heritage. The event was organized by the JYC Cultural and Dance Club in association with SPIC MACAY. The stunning demonstration of agility, discipline, and skill by performers from Kerala led by Mr. Rajiv. The audience was captivated by the martial art's spiritual and physical elements. The JYC's seamless organization and dedication ensured the event's success, leaving a lasting impression on attendees and promoting cultural appreciation.



IIT ROORKEE THOMSO 2024

JUIT participated in different events at IIT Roorkee's Thomso 2024, held from October 4-5, where students showcased their talents in literary, music and theatre categories. In the literary event Model United Nations (MUN), the Shield Committee, chaired by Abhinav Bajpai, engaged in discussions on the topic of "Dealing with Extraterrestrial Threats to Earth." Aditya Singh from our institution earned a Special Mention Award for his outstanding contribution.. JUIT presence at Thomso 2024 was notable, with achievements in MUN and praiseworthy performances in music and theatre, providing

valuable experience that enriched our students' skills and exposure in a competitive environment.



HIMACHAL TECH LEAGUE

The Inaugural Ceremony of HimachalTech League 2024 was held on September 14, 2024 in the JUIT Auditorium, celebrating innovation and technological advancements in agriculture. Organised by the Enkindle Club (CSE/IT) of JUIT in collaboration with Vignan Learning Solutions and TeckyBot. The event focused on the theme "Where Innovation Meets Agriculture," highlighting the impact of technologies such as AI, Robotics, Drone Technology, IoT, 3D Printing, and Clean Energy on the future of agriculture. Mr. Aaditya Sharma and Mr. Kunal Sharma from Vignan Learning Solutions and Mr. Venkat Reddy, CEO of TeckyBot, were the main organisers of the event. The guests of honor of the event were Mr. Guman Thakur and Mr. Surender Rangta, former Director of Samagra Shiksha,

Himachal Pradesh. With participation from 14 schools and 3 universities from Himachal Pradesh, more than 200 students competed in two divisions: the Junior Division (grades 6 to 12) tackling challenges in 3D Printing, Robotics, Drone Technology, and Clean Energy, and the Senior Division (university-level) focusing on advanced problems in AI, Robotics, IoT, and Drone Technology in agriculture. The HimachalTech League 2024 successfully celebrated technological innovation, fostering creativity and excellence in agriculture, leaving a lasting impression on all. The closing ceremony was held in the afternoon and various students in different categories won prizes in junior and senior division.



INCIPERE 2024

Department of Biotechnology and Bioinformatics

INCIPERE-24

SYNAPSE family warmly invite you to join us for INCIPERE, We look forward to celebrating together!

LECTURE THEATER 3 (LT3)
Friday, 18 October 2024
05:00pm

Organized by SYNAPSE Club

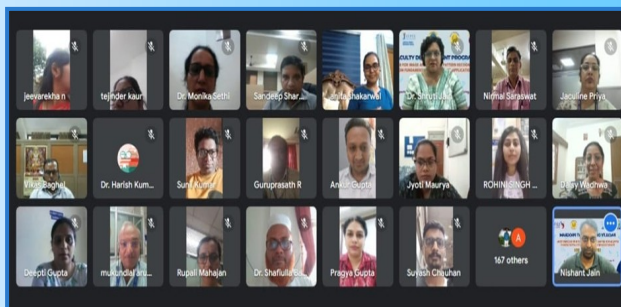
The "INCIPERE" event took place on October 18, 2024, as an annual event welcoming for welcoming the first year students of B.Tech. BT and BI, M.Sc. BT and Microbiology, M.Tech. BT and Ph.D students organized by the Synapse Club of the Department of Biotechnology and Bioinformatics. The inspiring speeches artistic showcases, and lively performances created a memorable atmosphere that encouraged connection and reflection.

FDP ON "MATLAB FOR IMAGE ANALYSIS AND PATTERN RECOGNITION: FROM FUNDAMENTALS TO ADVANCED APPLICATIONS"

One-week Faculty Development Program (FDP) on "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications" by the Department of Electronics and Communication Engineering, JUIT, Himachal Pradesh, in collaboration with Electronics & ICT Academy, and Centre for Development of Advanced Computing (C-DAC), Mohali from September 2-6, 2024. FDP aimed to equip academicians and lab staff from polytechnic and engineering institutes/universities with the latest skills in image analysis and pattern recognition using MATLAB.

The speakers of the FDP were: Prof. Tapan Kumar Gandhi; IIT Delhi, Dr. Taranjit Kaur; IIT Jodhpur, Dr. Satyasai Jagannath Nanda; MNIT Jaipur, Dr. Meenakshi Sood Sood; NITTTR Chandigarh, Dr. Anjali Gautam; IIIT Allahabad, Dr. Akshay Pandey; IIIT Jabalpur, Prof. R.S. Anand; IIT Roorkee, Dr. Chandresh Kumar Maurya; IIT Indore, Dr. Jitendra Virmani; CSIR-CSIO,

Dr. Anita Singh; Scientist 'E', IRDE, DRDO, Ministry of Defense, Prof. Shruti Jain, Associate Dean (I), JUIT, Dr. Nishant Jain; JUIT, Dr. Vikas Baghel; JUIT who shared their knowledge with over 200 online participants.



TRAINING PROGRAM ON SCHOOL SAFETY AND DISASTER MANAGEMENT

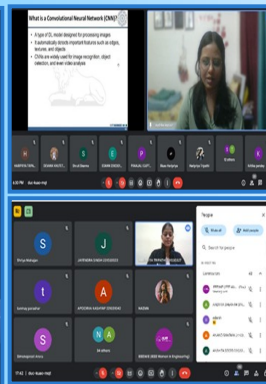
The four-day Training on School Safety and Disaster Management, held from September 24-27, 2024, for Junior Engineers under the Samagra Siksha Abhiyan (Civil Wing), was organized by the Department of Civil Engineering, JUIT in collaboration with DIET Shimla. The training aimed to equip field engineers with the essential knowledge and skills needed to handle school safety and disaster preparedness in the challenging and hazard-prone regions of Shimla. A total of 16 participants including 11 Junior Engineers from DIET Shimla and 5 M.Tech students from CED JUIT joined the programme. The technical sessions included the visual and theoretical explanations of emerging technologies in the civil engineering field for betterment

of disaster preparation and to counter the negative impact of hazard mitigation. A hands-on laboratory training was also provided for destructive and non-destructive assessment of quality of construction in the hilly sub-stratum. The program was concluded by Mrs. Shalika Sharma from DIET Shimla delivering the vote of thanks. She recognized the collaborative efforts of the organizers



EVENTS BY IEEE JUIT STUDENT BRANCH

- *Tech Mavens 2.0* (Oct 1): Coding, research, and trivia event
- *All India Elocution (Internal Round)* (Sep 30): Focus on "India's Imbalanced Development.
- *Poster Design Competition* (Sep 28): Collaborative design event at NSUT, New Delhi.
- *Drone Workshop* (Sep 26-27): Hands-on drone assembly and flight sessions.
- *Federated Learning Workshop* (Sep 23-25): Intro to privacy-focused AI with Python.
- *Membership Setup Workshop*: Guided new members in account creation.
- *Recruitment Drive*: Expanded IEEE JUIT-SB member base.
- *AI for Smart Cities Workshop* (Sep 9-14): Python applications for urban challenges



CLEARVISION CHALLENGE: IMAGE AND VIDEO DEHAZING COMPETITION

The *ClearVision Challenge: Image and Video Dehazing Competition* was organized by the Centre of Excellence in Artificial Intelligence for Education (CoE-AIE) during September 23 – October 11, 2024 with the aim of encouraging participants to develop cutting-edge solutions to dehaze images and videos obscured by haze or fog. These tasks hold practical importance for improving visibility in applications like autonomous vehicles, surveillance systems, and professional photography. Over the course of two weeks, participants were challenged to apply image processing techniques, machine learning algorithms, and other innovative methods to enhance visibility in hazy conditions. The event attracted a diverse range of participants including students and professionals, all eager to showcase their technical skills.

The goal was to inspire participants to explore solutions that could directly translate into real-world applications, pushing the boundaries of current dehazing techniques and technological possibilities.



Teams showcased their work through detailed reports, visual examples, and live demonstrations of the before-and-after effects of their dehazing techniques on the provided images and videos. Judges evaluated the presentations based on the clarity of their explanation, the effectiveness of the dehazing process, the efficiency of their algorithms, and the innovation behind their solutions.

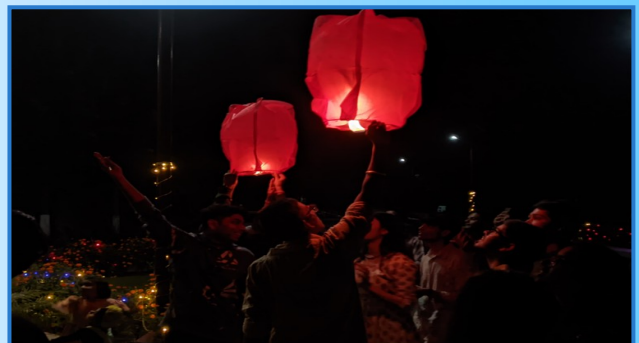
Saransh, Saarvi, and Nandini, Second Year Students, bagged the first position; Second prize was bagged by Om Vishal, a Final year Student; Ramandeep and Aditya, Third-Year Students bagged the third position.

EKATVA: ROSHNI KI MEHFIL

October 19, 2024 Bringing in the festive spirit with a unique focus on sustainability and community, the Rotaract Club of Wagnaghat hosted *Ekatva: Roshni ki Mehfil*, a cracker-free Diwali celebration that showcased the power of meaningful connections and eco-friendly practices. Held at the scenic Vivekananda Statue at JUIT, the event aimed to support local artisans, promote environmentally conscious festivities, and create a memorable evening of joy and togetherness.

To support the local community, the club sourced over 100 beautifully crafted clay diyas and 50 sky lanterns from nearby vendors. This initiative not only illuminated the event but also demonstrated the Rotaract Club's commitment to empowering small businesses, directly impacting local livelihoods. Faculty, students, and Rotaract members gathered at the site to light diyas, symbolizing

unity and the triumph of light over darkness. The ambiance was thoughtfully decorated, with fairy lights illuminating the venue and enhancing the festive atmosphere. By choosing a cracker-free celebration, the Rotaract Club promoted an environmentally friendly Diwali, sparing the air of harmful pollutants and underscoring the importance of preserving nature in our celebrations.



DESIGNING BOOTCAMP: The JYC Technical Sciences, Movies & Photography Club, in collaboration with the ACM Student Chapter JUIT, organised Graphic Designing Bootcamp from September 23-25, 2024 in LT1. This Bootcamp is designed to introduce the essential principles and tools of graphic design, offering students hands-on experience in creating visually stunning content. Under the guidance of skilled mentors, students explore new techniques, creative tips, and ways to elevate their design skills.

Creative Minds and Powerful Voices Shine at JUIT's Debate and Poster-Making Competition: On October 19, 2024, JUIT's Literary and Debating Club and Creative Arts Committee, under the JYC, held an inspiring Poster-Making and Debate Competition. The event fostered intellectual and artistic expression. Kartikeya won the debate, with Karunesh and Abhinav Bajpai in second and third positions respectively. In the poster-making contest, Shruti Sharma and Sanya Sharma took top honors. Judges praised the participants' creativity and critical thinking, making this event a memorable showcase of JUIT's vibrant student talent.

Workshop in G. B. Pant Memorial Govt. College Rampur Busharh, Shimla: A workshop on Basic Biotechnology Techniques and Career Prospects in Life Sciences was jointly organized by the Department of Zoology at Government College Rampur and the Department of Biotechnology and Bioinformatics at JUIT on October 26, 2024. Prof. Sudhir Kumar served as the resource person, while Dr. Ankush assisted in the workshop's execution. Ms. Yojana Thakur from the Zoology faculty coordinated the event from the college side. During the workshop, Prof. Sudhir provided insights into national-level entrance examinations such as GAT-B, IIT-JAM, and CUET, and also introduced the PGET-JUIT program. M.Sc. and B.Sc. students from Zoology and Botany department of College actively participated. Students engaged in hands-on activities, including the KOH String experiment, and observed bacterial growth patterns on media plates. They explored concepts such as inoculum and cell wall composition, which are crucial for differentiating various bacterial categories. Additionally, they learned the basics of preparing laboratory solutions and performing related calculations.



HINDI DIWAS REPORT

The Hindi debate organized by the JYC, on 14th September 2024 on topic Is the Future of Hindi Secure in the Digital Age? The Registrar's address highlighted Hindi's cultural significance, setting the stage for insightful debates on its role in the digital era. Participants engaged the audience with



thought-provoking perspectives, underscoring Hindi's value in a modern context. Winners were Abhinav Bajpai, Kartikeya, and Suryanshu. Bhumika Gupta concluded the event with a thank-you note, celebrating JYC's commitment to campus enrichment.

PANCHAYAT VISIT AND SWACHHTA AWARENESS DRIVE

On 2nd October 2024, a Panchayat Visit and Swachhta Awareness Drive were organised at Chausa Village, Solan District, by the UBA Cell and the National Service Scheme (NSS) of JUIT. The event was focused on raising awareness about cleanliness, promoting sanitation, and strengthening the connection between the university and the local community. Through this initiative, the organisers aimed to foster better rural governance

and contribute to the village's overall well-being. The key activities of the event included a Gram Sabha interaction where students observed the governance practices of the Panchayat, gaining valuable insights into its decision-making processes. They conducted interactive activities and health awareness sessions, encouraging children and parents to adopt healthier habits.



SEMESTER TOURNAMENT

The Semester Tournament at JUIT, organised by JYC and the Sports Club, was a highlight of the academic year, uniting students through diverse sports and esports events. Participants competed passionately in activities from basketball and cricket to BGMI and FIFA, with standout performances across all events. Winners included Ipshit Singh



(marathon), Phantompur (cricket), Hericanes (girls' basketball), and Saya XO (BGMI). The tournament celebrated teamwork, fair play, and athleticism, culminating in a lively closing ceremony with awards, performances, and acknowledgments from faculty and student leaders.



Prof. Rajendra Kumar Sharma, Vice-Chancellor of JUIT felicitating Dr. Kiran Seth in a function on Monday.

Padma Shri Dr Kiran Seth visits JUIT campus

Excelsior Correspondent

JAMMU, Sept 2: Padma Shri Dr Kiran Seth, founder of Spic Macay (Society for the Promotion of Indian Classical Music and Culture Amongst Youth) and Professor Emeritus at IIT Delhi today visited the campus of Jaypee University of Information Technology (JUIT).

In this regard an event was organized by Prof. Rajendra Kumar Sharma, Vice Chancellor of JUIT.

The event was attended by a large number of students and faculty members.

Dr Kiran Seth began his lecture with an engaging question to the youth: "What does Indian history mean to you?"

This thought-provoking question set the tone for the rest of his lecture, as he aimed to deepen the audience's understanding of Indian Culture and its relevance in the modern world.

One of the central themes of Dr. Seth's lecture was the importance of Indian music in daily life.

He emphasized that Indian classical music is a source of entertainment

our heritage that has the power to enhance mental focus, reduce stress and improve overall well-being and spoke about the significance of learning and preserving this art form, which is deeply intertwined with India's rich cultural history.

One of the most impactful segments of the session was Dr Seth's practical demonstration of yoga. He not only guided us through basic yoga postures but also explained their significance in our daily lives. Through simple yet effective exercises, he highlighted how yoga can correct our posture, alleviate stress and bring about a sense of calm and balance.

The audience was particularly inspired by his explanation of why Spic Macay's mission to preserve and promote traditional Indian culture is vital in today's fast-paced world.

The event concluded with a round of applause for Dr. Seth, who left us with the realization of how Spic Macay continues to make a difference in the lives of many by connecting them to India's rich cultural roots. It was a truly enlightening and enjoyable experience.

ClearVision Challenge: Image & Video Dehazing Competition concludes at JUIT

EARLY TIMES REPORT

SOLAN, Oct 23: The Centre of Excellence in Artificial Intelligence for Education (CoE-AIE) at Jaypee University of Information Technology (JUIT) successfully organized the ClearVision Challenge: Image and Video Dehazing Competition from 23 September to 11 October 2024. The competition encouraged participants to create innovative dehazing solutions for images and videos.

Coordinated by faculty members Dr. Hari Singh, Dr. Vipul Sharma, Prof. Tirath Raj Singh, and Prof. Shruti Jain, along with M.Tech students Kunal and Robinson, the event saw 14 teams from various academic levels participate. The evaluation took

place on 11 October, followed by a prize distribution on 18 October.

Winners included: First Place: Team NPKs (Second-year students: Sa-rush, Saary, Nandini)

Fried Neurons (Third-year students: Ramandeep, Aditya) Faculty coordinators encouraged participants to continue refining their projects and highlighted the poten-



Participants gathering for a group photo during the program

Second Place: Om Vishal (Final-year student) Third Place: Team Deep

इंटरनेशनल कॉन्फ्रेंस ऑन सिविल मटेरियल्स और एनवायरनमेंटल सस्टेनेबिलिटी का उद्घाटन



सवेरा न्यूज सोलन, 5 अक्टूबर : अंतर्राष्ट्रीय सम्मेलन आईसीसीएमएस-2024 का उद्घाटन कार्यक्रम सोलन में आयोजित किया गया।

गौर जो जेयूआईटी के सीईओ हैं ने सस्टेनेबिलिटी के महत्व पर बहुमूल्य उद्योग अनुभव साझा किए और वर्तमान वैश्विक चुनौतियों में अपनी परामर्शदाता की

JUIT celebrates Engineer's Day with grand event 'Eureka'

Excelsior Correspondent

JAMMU, Sept 19: Jaypee University of Information Technology (JUIT) celebrated Engineer's Day with great enthusiasm, hosting a vibrant event named 'Eureka'.

Organized by the Rotary Club of Shimla, the Rotaract Club of Wanknaghat, and JUIT's Centre of Excellence in Artificial Intelligence for Education, the

ments and continue their pursuit of knowledge and invention.

One of the key highlights of 'Eureka' was the project presentation competition, wherein students from various years showcased their innovative ideas and projects. A panel of experts carefully evaluated each project, assessing them based on creativity, practicality, and potential impact. The competition concluded with the announcement of the winners, who were recognized for their exceptional contributions to engineering and innovation.

The first position was secured by Team Obscura, which was awarded Rs 5000, Team Nirvana claimed the second position with a prize of Rs 3000, while Team Bug Brigade secured the third position and was awarded Rs 2000.

The event concluded with a special felicitation ceremony honoring all the engineers present. JUIT's Vice-Chancellor, Dr. Rajendra Kumar Sharma, delivered closing remarks, emphasizing the critical role engineers play in shaping the future and driving societal progress. Dr. Sharma highlighted the importance of passion and creativity in advancing technological developments and encourage students to contribute meaningfully to the



JUIT VC Dr. RK Sharma awarding winners of project presentation competition during a function.

event aimed to honor the contributions of engineers while fostering innovative thinking among the next generation of problem-solvers.

The event was graced by the presence of Rakesh Kumar Thakur, a distinguished scientist associated with the Defence Research and Development Organization (DRDO), who served as the chief guest. During his keynote address, Thakur motivated participants to explore new horizons in the fields of engineering and innovation. His words encouraged students and faculty alike to push the bound-

जेयूआईटी के ऑडिटोरियम में करवाया हिमाचलटेक लीग का उद्घाटन समारोह

सवेरा न्यूज/आकाश द्विवेदी सोलन, 15 सितंबर : जेयूआईटी के कुलपति प्रोफेसर राजेंद्र हिमाचलटेक लीग 2024 का उद्घाटन समारोह 14 सितंबर को जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी (जेयूआईटी) के ऑडिटोरियम में आयोजित किया गया, जिसमें कृषि में नवाचार और तकनीकी प्रगति का जश्न मनाया गया। यह कार्यक्रम विद्या तत्व न्यातिसम जेयूआईटी के सीएसई विभाग के एकाइडल क्लब द्वारा विन्यास लॉनिंग

आयोजक थे। इस आयोजन का निर्देशन प्रोफेसर अशोक कुमार गुप्ता, अकादमिक और अनुसंधान डीन, बिगिडियर आरके शर्मा, रजिस्ट्रार और छात्रों के डीन, प्रोफेसर विवेक सैगल, विभाग के प्रमुख, प्रोफेसर राजीव प्रमुख, प्रोफेसर श्रुति जैन, नवाचार के एसोसिएट डीन



दैनिक सवेरा टाइम्स जेयूआईटी टीम ने राइड हैक 2024 में जीत हिसिल की



सवेरा न्यूज नई दिल्ली, 3 अक्टूबर : जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी की टीम रेजेन ने अपने यश त्रिपाठी, सौरव कुमार, श्रेया त्यागी और शुभरंग राज को टीम अपनी तकनीकी सरलता और सहयोगात्मक भावना के लिए विशिष्ट रहीं।

केरल के कलारीपयट्टू के प्रदर्शन से रोशन हुआ जेपी विश्वविद्यालय

सवेरा न्यूज/सतीश शर्मा सोलन, 20 सितंबर: भारत की प्राचीन मार्शल आर्ट विरासत के उत्सव में जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी (जेयूआईटी), सोलन, हिमाचल प्रदेश ने कलारीपयट्टू के एक आकर्षक प्रदर्शन को मेजबानी की, जो एक मार्शल आर्ट है जो केरल में सदियों से फल-फूल रहा है। स्मिक मैके के सहयोग से जेवाईसी कल्चरल एंड डांस क्लब के सहयोगात्मक प्रयासों से आयोजित यह कार्यक्रम जेयूआईटी समारोह में आयोजित किया गया। कार्यक्रम सुबह 11 बजे पारंपरिक दीप प्रज्वलन समारोह के साथ शुरू हुआ। कलारीपयट्टू के गहरे महत्व को



जेपी विवि में केरल से आए मुख्य अतिथि दीप प्रज्वलित कर समारोह का शुभारंभ करते हुए व (दाएं) जेपी विवि में आयोजित कार्यक्रम में कला का प्रदर्शन करते छात्र समझाकर दर्शकों का ध्यान आकर्षित किया। मेघ कनवन्- शरीर को एक आंख बनाओ वाक्यांश को जीवंत कर दिया गया क्योंकि कलाकारों ने



अपने मार्शल आर्ट एक्ट में अविश्वसनीय समन्वय, चपलता और अनुशासन का प्रदर्शन किया। इसके पश्चात् कुलपति डा. आरके शर्मा ने उल्लेखनीय प्रदर्शन के लिए आभार व्यक्त करते हुए एक प्रेरक भाषण दिया। इस कार्यक्रम में प्रसिद्ध कलाकार राजीव और उनकी प्रतिभाशाली मंडली का अभिनेता भी किया गया। जेवाईसी अनुशासन समिति के सदस्यों को कार्यक्रम के उनके निबंध प्रबंधन के लिए विशेष मान्यता दी गई। इस सफल सांस्कृतिक प्रदर्शन का श्रेय सही मायने में जेयूआईटी यूथ क्लब (जेवाईसी) के मेहनती और भावुक सदस्यों को है।



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