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A NEWSLETTER OF JUIT
Hilly Ramblings

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PATENTS

Patent Published:

- **"A system and method for Non-Invasive Biomedical Diagnostics using Multi Patch Antenna"**
  Inventors: Naresh Rana, Shruti Jain, and Sunil Kumar Khah
  Application No.: 202511100339
  Date: December 05, 2025

- **"A method, a device, and a system for Intelligent Document Reproduction and Management"**
  Inventors: Anita Sardana and Nancy Singla
  Application No.: 202511097894
  Date: December 05, 2025

- **"A System and a method for AI-Enabled Structural Health Monitoring of Dams in Flood-Prone Areas"**
  Inventors: Anita Sardana and Aman Sharma
  Application No.: 202511097451
  Date: December 05, 2025

- **"A system and method for Smart Bucket with In-Built heating and Intelligent Safety Management"**
  Inventors: Nancy Singla, Anita Sardana, Deepak Gupta and Ekta Gandotra
  Application No.: 202511095090
  Date: November 28, 2025

- **"A Method and Formulation for Herbal Cream Using Tridax procumbens for Wound Healing"**
  Inventors: Vipasha Sher, Megha Mourya, Poonam Sharma and Ashok Kumar Nadda
  Application No.: 202511093887
  Date: November 14, 2025

- **"A system and method for Intelligent Dermatological analysis and personalized Skincare Recommendation "**
  Inventors: Nishant Jain, Vikas Baghel, Shruti Jain
  Application No. 202511095799
  Date: December 05, 2025

Patent Filed:

- **"A Method and a system for AI-based Personalized Learning using Blockchain and Cognitive Feedback"**
  Inventors: Anubhav Kumar
  Application No. 202511117939
  Date: November 27, 2025

- **"A System and a Method to remove Water Vapour from Biogas in Low-Cost Reactors"**
  Inventors: Prof. Sudhir Kumar, Prof. Ashish Kumar and Karam Dass
  Application No. 202511115531
  Date: November 22, 2025

PhD Completed

- **Mr. Munish Bhardwaj (ECE - 206008)** completed his Ph.D. synopsis on 03 November 2025.
  Title: Development of Advanced Fuzzy C-Means Clustering Methods for Robust Road Crack Segmentation and Detection
  Supervisor: Dr. Vikas Baghel and Dr. Nafis Uddin Khan

- **Ms. Neha Thakur (CSE - 206207)** completed her Ph.D on 11 November 2025.
  Title: Design of Novel Deep Learning Framework for Early Detection of Breast Cancer
  Supervisor: Prof. Pardeep Kumar and Dr. Amit Kumar

- **Ms. Pragya Gupta (ECE - 186006)** completed her Ph.D on 12 December 2025.
  Title: Fusion Based Enhancement of CT and MRI Images for Improved Diagnostic Decision-Making
  Supervisor: Dr. Nishant Jain

MoU-International Scientific Collaborative Initiatives

A Tripartite Memorandum of Understanding (MoU) was formally signed with Dr. Ritesh Arya (Tethys Fossil Museum, Kasuali, HP), Prof. Rajesh K. Sani, (South Dakota Mines USA), and Prof. R.K.Sharma JUIT, marking a significant step toward strengthening international research collaboration. The agreement establishes a framework for sharing scientific resources, co-authoring high-quality research publications, exchanging data, and jointly pursuing grant opportunities. Through this partnership, the three institutions aim to enhance interdisciplinary research, promote the exchange of knowledge and expertise, and create new opportunities for students and faculty engagement. By combining their complementary strengths in fossil studies, geological sciences, biotechnology, and related fields, the collaboration is expected to produce impactful scientific outcomes and foster long-term academic cooperation between India and the United States.

Faculty Corner

- Dr. Shruti Jain sessioned a chair in 4th IEEE International Conference on Robotics, Automation, Artificial-intelligence and Internet-of-Things (RAAICON 2025) from 27-28 November 2025 organised by IEEE Bangladesh Section (IEEE BDS) and IEEE Robotics and Automation Society (RAS) Bangladesh Chapter at the Military Institute of Science and Technology, MIST, Dhaka, Bangladesh.

- Dr. Nishant Jain was invited as an external examiner to evaluate Basic Electronics and Digital Electronics Practicals and Lab Viva of B.Tech. Students at UIT, Himachal Pradesh University, HP, on 18th and 19th December 2025.

- Prof. Sudhir Syal was invited as an external examiner to conduct an examination on 20 December 2025 in the Department of Microbiology, Himachal Pradesh University, Shimla.

- Dr Hemant Sood was expert consultant with Nishant Biotech, Plant Tissue Culture Lab,Bilaspur HP from November 2025.

- Prof. Hemant Sood was invited as an external examiner to conduct PhD Viva Voice on 21 December 2025 in the Department of Biotechnology, Dr YS Parmar University of Horticulture and Forestry, Nauni, Himachal Pradesh.

- Dr. Shruti Jain examined PhD thesis entitled "Non-Invasive Cardiovascular/Stroke Risk Stratification", of Ms. Mrinalini Bhagawati, under the guidance of Dr. Sudip Paul and Prof. Jasjit S. Suri, North Eastern Hill University, East Khasi Hills, Shillong.

PLACEMENT DRIVE

The Training & Placement Cell, successfully organized an HR Round Table Conference at the campus, bringing together senior HR leaders from reputed organizations to deliberate on emerging industry expectations on 19-20 December, 2025 .

The conference aimed to strengthen industry–academia collaboration and provide strategic insights to align academic practices with evolving workforce requirements. The interactive format encouraged open dialogue, experience sharing, and constructive recommendations relevant to student preparedness and institutional growth.

The distinguished HR professionals who participated in the conference included:

- Mr. Sanjeev Pathania, Country Head, BasWare
- Mr. Vipin Sharma, Director HR, Mit Hill
- Ms. Kudrat Sharma, Vice President, GetWork
- Mr. Bikramjit Singh, Global Vice President, Digi Mantra
- Mr. Paramveer Pupneja, Associate Director – Talent Acquisition, Fitelo
- Ms. Amandeep Kaur, Associate Human Resource Manager, Antire

Key discussions focused on future-ready skills, industry expectations from graduates, bridging the employability gap, and the role of internships, experiential learning, and continuous skill development. The HR leaders shared valuable perspectives on recruitment trends, leadership competencies, and best practices in talent management.

The conference concluded with actionable takeaways to enhance student employability and reaffirmed JUIT's commitment to fostering meaningful industry partnerships.

ALUMNI UPDATES

- Tarandeep Kaur, alumna of B.Tech, CSE (2007–08), is working as a Senior Product Manager at Red Ventures, Charlotte, North Carolina, United States.

- Neha Justa, alumna of B.Tech, CSE (2007–08), is working as a Data Analyst (Freelancer) with uTest, Ashburn, Virginia, United States.

- Bhuvan Sethi, alumnus of B.Tech, CSE (2007–08), is working as a Managing Director at capSpire, Calgary, Alberta, Canada.

- Ravi Chaturvedi, alumnus of B.Tech, CSE (2007–08), is working as a Technical Account Lead (DGM – Government Accounts, North and East India) at Tata Communications, Pune, India.

- Ali Yasir, alumnus of B.Tech, CSE (2008–09), is working as a Lead Solution Architect at QBE Insurance, Sydney, Australia.

- Rahul Sharma, alumnus of B.Tech, CSE (2008–09), is working as a Cloud & Network Security Solutions Architect at Allegis Group, Ellicott City, Maryland, United States.

- Chhavi Garg, alumna of B.Tech, CSE (2008–09), is working as a Data Scientist at Tata Consultancy Services, Bengaluru, Karnataka, India.

- Ankita Taneja, alumna of B.Tech, CSE (2008–09), is working as a Senior Technical Consultant at adidas, Portland, Oregon, United States.

- Kumar Vaibhav, alumnus of B.Tech, CSE (2008–09), is working as a Principal ML & Data Engineer at Fidelity Investments, Bengaluru, Karnataka, India.

- Neha Srivastava, alumna of B.Tech, CSE (2008–09), is working as a Product Manager at Taggd, Gurgaon, Haryana, India.

ONLINE TRAINING SESSION ON QUILLBOT

An online training session on the effective use of QuillBot, an advanced AI-based writing and editing tool, was conducted for the students and faculty of JUIT on 19th November 2025 from 3:00 PM onwards. The session aimed to familiarize participants with QuillBot's features and demonstrate how the tool can significantly improve academic and research writing. The session was led by Mr. Aman Jain, Business Development Specialist at QuillBot, who provided an in-depth overview of the platform and its practical applications. He highlighted that JUIT possesses multiple licenses for QuillBot, enabling widespread access for academic writing support. Mr. Jain explained the diverse functionalities of QuillBot, starting with its core feature of text rephrasing, which helps users enhance clarity and coherence in their writing. Participants were also introduced to the Grammar and Spell Check tool, which ensures error-free writing, and the Writing Style Enhancement module that improves tone, structure, and readability.

Further, the session covered advanced tools such as summarization, enabling users to condense long passages while retaining key ideas, and Vocabulary Improvement suggestions that help strengthen academic expressions. Emphasis was placed on QuillBot's user-friendly interface, making it accessible and convenient for learners at all levels. Overall, the session was highly informative and beneficial, equipping attendees with effective techniques to enhance their writing quality using QuillBot's comprehensive tools.
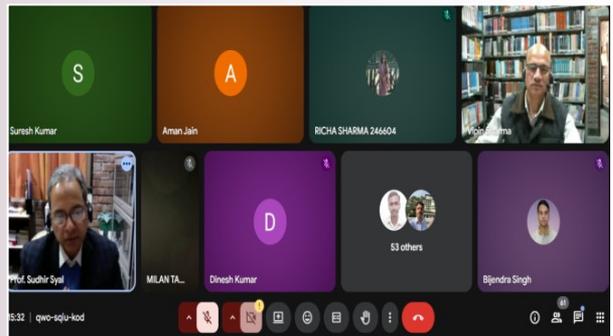
SESSION ON CYBER SECURITY AWARENESS AND BEST PRACTICES

The SYNAPSE Club, Department of BT & BI JUIT, organized a seminar titled "Cyber security Awareness and Best Practices" on 24 November 2025. The seminar was conducted as part of National Cyber Security Awareness Month to promote awareness about emerging cyber threats and safe digital practices. The session was delivered by Dr. Hari Singh from the Department of CSE. Dr. Hari Singh is a recognized expert in the field of cyber security, and he shared valuable insights on current challenges in cyberspace and the need for responsible digital behavior.

The key objectives of the seminar were to make participants aware of emerging cyber security threats and trends, common cybercrimes, safe online practices, digital hygiene, the importance of data privacy, and the role of individuals in creating a secure cyber ecosystem.

The seminar was highly interactive and engaging in discussions about real-life cyber incidents and protective measures.

The event saw active participation from students, faculty, and staff across departments, reflecting widespread interest in cyber security awareness. The seminar successfully achieved its goal of educating the university community about the increasing importance of cyber safety.

INTERNATIONAL SYMPOSIUM ON ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

The International Collaboration Centre of JUIT Waknaghat, organized an international symposium on Artificial Intelligence (AI) and Data Science bringing together participants from India and abroad for an enriching academic exchange. The event commenced with a keynote address by Hon'ble Vice Chancellor, Prof. R. K. Sharma, who delivered an insightful talk on the historical evolution of Machine Learning and its wide-ranging applications. His lecture provided a comprehensive perspective on the growth of ML—from early conceptual foundations to advanced contemporary models. A major highlight of the keynote was the discussion on the landmark Vaswani model, "Attention Is All You Need," which revolutionized modern AI through the introduction of transformer-based architectures. Prof. Sharma emphasized the importance of crafting effective prompts and demonstrated how innovative uses of AI can accelerate business development and entrepreneurial ventures. This segment particularly resonated with participants, offering new directions for exploration and research. The event witnessed active participation from both off-line and online attendees, including international delegates from Nepal, Cameroon, Nigeria, and Bangladesh. The keynote session stimulated meaningful conversations, and participants raised thoughtful queries regarding the implementation of various AI models in Computer Science Engineering and Civil Engineering, highlighting the interdisciplinary relevance of these technologies. The symposium concluded with the felicitation of international participants, followed by a guided tour of JUIT's state-of-the-art facilities and laboratories. The event successfully opened numerous dimensions of AI and ML applications across diverse fields and strengthened international academic collaboration.

EXPERT AND INVITED TALK

- **Dr. Anita Sardana** from the Department of CSE & IT delivered an expert session, "AI to Detect Fake Research & AI-Generated Papers," as part of the online Faculty Development Program on "Next GEN Research Writing: Applications of AI Tools in Academia." The Amity School of Engineering & Technology, Amity University Lucknow Campus, organized the FDP on 13-14 November 2025. Her session took place on 14th November 2025. Key highlights included copyright, AI tools, plagiarism tools, government initiatives, and the ethics of generated work.

- **Dr. Nishant Jain** delivered an expert lecture on November 27, 2025 as part of the Faculty Development Program, titled "Introductory Course in Artificial Intelligence & Its Application," which was organized from November 24-29, 2025, at Chandigarh Group of Colleges (CGC), Landran, Mohali, and funded by E&ICT, CDAC, Mohali.

- **Dr Bhupendra Pathak** delivered an expert invited talk at the 4th International Conference on Recent Trends in Advanced Sciences and Computing (ICRTASC-2025), held at VIT Bhopal University from November 17–19 2025 in collaboration with IIT Indore.

- **Prof. Sudhir Kumar** was an invited speaker in a symposium on "Fuels of the Future: Powering Sustainable Mobility" which was organized by Guru Nanak Dev University, Amritsar from December 22–23, 2025.
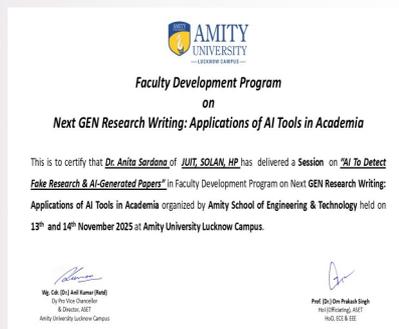
BIO-IDEATHON

The Bio-Ideathon is an innovative competition organized to inspire students to apply their scientific knowledge and creativity to solve real-world problems through biotechnology. It serves as a platform for young minds to brainstorm and present novel ideas that can contribute to advancements in health, environment, agriculture, and industry. The Bio-Ideathon Competition commenced on 07 November, 2025 at 5:00 PM from students across various semesters. The event began with a motivational address by Prof. Jata Shankar, Head of Department, who inspired the participants to think innovatively and utilize their scientific understanding to tackle global challenges. Following this, Dr. Saurabh Bansal, also motivated the students with his encouraging words and guidance. A total of 24 teams participated in the competition, presenting their innovative ideas under the following themes:

- Healthcare & Diagnostics Innovation
- Sustainable Biotechnology and Bioengineering
- Computational Biology Solutions
- Environmental & Agriculture Biotechnology
- Bio-Entrepreneurship & Human Welfare

The final evaluation took place on 08 November, 2025 at 10:00 AM, where the shortlisted teams presented their refined ideas before an esteemed panel of judges. The faculty evaluated the projects based on innovation, practical applicability, and overall impact. After a thorough assessment, the top three teams were selected for their outstanding ideation and presentation skills.

AAROHAN – LEADERSHIP DEVELOPMENT PROGRAM

The Rotaract Club of Waknaghat successfully organized Aarohan on 02 November 2025, a dynamic learning initiative aimed at empowering Rotaractors with essential leadership and organizational skills. Organized in the spirit of World Students' Day (15 October), the program drew inspiration from Dr. APJ Abdul Kalam's vision of youth excellence, leadership, and continuous

learning. The district-level event was designed to enhance professionalism, nurture teamwork, and prepare young leaders to take on greater responsibilities within the Rotaract community and beyond. The event witnessed enthusiastic participation from several Rotaract clubs, including RC Waknaghat, HPNLU, GDC, GC Sanjauli, and RKMV, making it a vibrant and collaborative platform for skill-building. Through interactive modules, practical exercises, and engaging discussions, the Rotaract Training Program (RTP) strengthened communication skills, boosted confidence, and fostered unity among participants. Key sessions focused on public speaking, project planning, event management, and effective teamwork—core competencies essential for both personal development and impactful community leadership.

Aarohan also had distinguished guests in attendance, including Rtn. Karan Bamba (President, Rotary Shimla), Rtn. Dr. Sundeep Sauhta (Secretary, Rotary Shimla), Rtn. Arjun Goel (President Elect, Rotary Shimla), Rtn. Amit Pal Sood (Vice President & District Additional Secretary, Rotary Shimla), Rtn. Sachin Verma (Club Treasurer & District Chair Youth Membership, Rotary Shimla), Rtr. Ritik Nagpal (District Rotaract Representative), and Rtr. Manu Gupta (DRR Elect). Their presence added immense value and encouragement to the participants.

Overall, Aarohan proved to be an enriching and inspirational program, reinforcing the district's commitment to growth, professionalism, and meaningful service while honoring the spirit of World Students' Day.

MASS SINGING OF VANDEMATRAM

On November 07, 2025, the NSS unit of JUIT organized a special event to celebrate the 150th anniversary of "Vande Mataram," a patriotic song written by Bankim Chandra Chattopadhyay in 1875. The occasion aimed to honor the song's significance in India's history and to inspire a collective sense of national pride among students. The event was a heartfelt tribute to the legacy of the song and its role in uniting Indians in their fight for independence. The highlight of the event was students singing "Vande Mataram" together in a spontaneous and unrehearsed manner.

FROM IDEAS TO IMPACT:
INNOVATION, TECHNOLOGY & ENTREPRENEURSHIP WITH IPR

The Institution Innovation Council (IIC), in collaboration with the Technology Incubation and Entrepreneurship Development Cell (TIEDC), Gender Champions Club, and the Department of Biotechnology and Bioinformatics, organized a session to enrich students with the basics of IPR. The session highlighted its relevance to future entrepreneurship or research projects and was titled "From Ideas to Impact: Innovation, Technology & Entrepreneurship with IPR." It took place at JUIT on 03 November, 2025. This special interactive session was organized to inspire students to think creatively, develop entrepreneurial mindsets, and understand the importance of protecting their innovations through IPR. The session aimed to bridge the gap between ideation

and implementation by emphasizing how technology and IPR play a vital role in transforming innovative ideas into successful ventures. Prof. Hemant Sood delivered an insightful talk. He focused on how innovation and technology serve as the backbone of modern entrepreneurship.

MESH MINDS (IDEATHON)

The Boot Camp on Problem Solving and Ideation, organized under the IIC, was conducted on 08 November, 2025 as a focused capacity-building session aimed at nurturing creativity, analytical thinking, and innovation-driven mindsets among students. The workshop provided participants with structured exposure to identifying real-world problems, analyzing their root causes, and generating feasible, impactful solutions through systematic ideation techniques. The session emphasized how the Internet of Things (IoT) and other emerging technologies can be leveraged to conceptualize and prototype solutions for societal, industrial, and environmental challenges. Participants were introduced to essential innovation frameworks, such as design thinking, problem decomposition, user-centric analysis, and rapid

prototyping. Through hands-on activities, brainstorming exercises, and guided facilitation, students were encouraged to explore diverse problem areas and transform broad ideas into structured concepts. The collaborative nature of the boot camp promoted teamwork, open discussion, and peer learning, enabling participants to refine their ideas based on feedback and critical evaluation.

NATIONAL ENTREPRENEURSHIP DAY

The event was organized by TIEDC on the occasion of National Entrepreneurship Day with the objective of promoting entrepreneurial awareness and innovation among students on 9th November 2025. The primary aim of the event was to help students understand how real-world market problems can be identified and transformed into feasible startup ideas. The initiative focused on encouraging creative thinking, structured problem-

solving, and confident communication, while introducing participants to the fundamentals of entrepreneurship and startup development.

HANDS ON DRONE

ICP CREWSPHERE JUIT, in collaboration with Technovatorz, the IEEE JUIT Student Branch, and the Enkindle Club JUIT, organized a highly practical and immersive Drone Bootcamp on 12th November 2025. The camp was designed to equip students with real-world exposure to modern drone technology. The event demonstrated the effectiveness of multi-club collaboration, showcasing how collective effort can build high-value, skill-oriented engineering learning environments that strengthen the culture of innovation on campus.

The bootcamp provided participants with a comprehensive, hands-on understanding of drone systems emphasizing real hardware interaction, flight behavior, stability control, system reliability, and troubleshooting techniques. Students were encouraged to move beyond theoretical learning and gain confidence in assembling, calibrating, and operating drones—an experience crucial for those interested in advanced robotics, UAV applications, and emerging tech fields.

Overall, the Drone Bootcamp effectively promoted a mindset of innovation, entrepreneurship, and startup-oriented thinking, aligning strongly with IIC's mission of nurturing future-ready innovators and technology leaders.

BOOTCAMP ON ROBO DOG

ICP CREWSPHERE JUIT, in collaboration with Technovatorz, the Enkindle Club JUIT, and the IEEE JUIT Student Branch on Nov 13, 2025, organized a highly engaging Robo Dog Bootcamp aimed at providing students with a practical, hands-on introduction to modern robotics. The collaborative initiative reflected a strong institutional commitment to fostering experiential, skill-based learning and cultivating an ecosystem of innovation on campus.

The bootcamp allowed participants to work directly with

robotic hardware, explore sensor-based interactions, and understand authentic robotic behavior. Through guided demonstrations and supervised experimentation, students gained insights into the fundamentals of robotic control, automation logic, and real-time response systems. This exposure played a crucial role in developing technical confidence and problem-solving abilities—skills essential for emerging technology landscapes.

CONSTITUTION DAY CELEBRATION

On November 26, 2025, the NSS unit of JUIT organized a special Constitution Day celebration at the Vivekananda Statue within the campus to honor the adoption of India's Constitution in 1949. The event, held at 1:00 PM, gathered around 15 NSS volunteers who participated in a series of activities designed to increase awareness about the Constitution's significance. This occasion served as a reminder of the importance of civic duties, fundamental rights, and responsibilities enshrined in the Constitution, fostering a sense of patriotism among students.

SPECIAL SESSION BY PROF. PETER HORE

The Synapse Club at JUIT Waknaghat, hosted an online academic session on 13th November 2025 with renowned chemist Prof. Peter Hore from the University of Oxford at Digital Learning Centre. Prof. Hemant Sood welcomed Prof. Hore, who delivered a lecture titled

"Animal Magnetism: How do migratory Songbirds Find Their Way?" Prof. Hore, an authority in Spin Chemistry, has contributed to NMR methodology, protein structure analysis, and photosynthetic energy conversion. Recently, he has focused on the biological mystery of animal navigation.

The core of Prof. Hore's lecture was a compelling explanation of how animals, particularly migratory songbirds, detect the Earth's extremely weak magnetic field. He introduced the audience to the Quantum Compass concept, arguing persuasively that the biological sensor must rely on a subtle quantum-mechanical process rather than traditional electromagnetic induction. The event proved highly successful for the Department of Biotechnology and Bioinformatics, showcasing the strength of interdisciplinary research. The blend of

physical chemistry and biology provided valuable insights to students from diverse scientific backgrounds. The interactive Q&A session saw active participation from the JUIT community, with questions focused on experimental validation and the broader role of quantum effects in therapeutic and bioengineering fields. Overall, Prof. Peter Hore's session on Animal Magnetism offered an enriching academic experience and deepened understanding of one of nature's most intriguing phenomena.

CHILDERN'S DAY CELEBRATION AT SANSKRITI SCHOOL SHIMLA

On the occasion of Children's Day, members of the Koshish Club and Gender Champions Club in collaboration with Admission Cell of JUIT organized an educational and interactive visit to Sanskriti School, Ghanahatti, Shimla. The event was planned under the guidance of Professor Hemant Sood and Mr. Prateek. The aim of the visit was to create an engaging learning environment for students through Vedic Mathematics sessions and fun interactive activities that promote curiosity, logical thinking, and confidence. The team interacted with students across different classes and ensured that every activity was both informative and enjoyable. Students were given a hands-on introduction to various Vedic Mathematics techniques. Concepts were explained through real-life examples, board demonstrations and active student participation, ensuring clarity and practical understanding. A short, interactive segment was conducted to help students understand the importance of computers in the modern world. This session helped broaden their perspective about technol-ogy and its significance in their future studies and careers. Prizes were awarded to winners of quizzes, puzzles, and group activities conducted during the sessions. This boosted the students' confidence and motivated them to participate actively. Chocolates were distributed to all students towards the end of the event, contributing to a joyful Children's Day celebration and adding to the overall positive experience. The sessions successfully blended learning with celebration, inspiring students through interactive teaching methods and real-world examples.

ANTI CHITTA WALKATHON

The NSS volunteers of JUIT actively participated in the Anti-Chitta Walkathon held in Shimla on November 15, 2025, as part of the Himachal Pradesh government's statewide campaign against 'Heroin'. The event, which began from The Ridge and concluded at Chaura Maidan, saw enthusiastic involvement from youth, students, and citizens from various sections of society. The volunteers demonstrated their commitment to the cause by spreading awareness about the dangers of drug addiction and encouraging community participation in combating the drug menace, aligning with the campaign's goal of trans-forming it into a mass movement. Their participation highlighted the importance of youth engagement in social issues and contributed to the collective effort to eradicate drug abuse in the state.

IPR AWARENESS WEEK

The IPR Awareness Week has been organized from 12–19 November 2025. Prof. Sudhir Syal, Prof. Shruti Jain, Dr. Aman Sharma, Dr. Anita Sardana, Dr. Pankaj Dhiman, and Dr. Saurav addressed various batches of UG/PG students, focused on intellectual property (IP) awareness and innovation. Team also elaborated on the various IP resources and financial support mechanisms available on campus to encourage and assist students in filing patents for their innovative ideas. During the address, emphasis was laid down on the importance of safeguarding intellectual creations and explained how patent filing plays a vital role in promoting research and entrepreneurship. Members of IPR Committee also motivated students to think creatively, pursue original ideas, and strive to develop high-quality patents that can contribute meaningfully to technological advancement and societal benefit. IPR Week aims to foster a culture of innovation and research-driven thinking among the students of JUIT.

EDUCATIONAL TOUR TO JUIT, WAKNAGHAT

An educational tour to JUIT Waknaghat was organized for the students of Dayanand Adarsh Vidyalaya, Kandaghat on 05 December 2025. A group of approximately 49 students, accompanied by 2 faculty members, visited the University to gain practical exposure to various advanced scientific and engineering laboratories.

Prof. Jata Shankar, HoD of Biotechnology and Bioinformatics at JUIT, organized the visit, welcomed attendees, and presented souvenirs. He discussed career opportunities in BT & BI and highlighted JUIT students' placements and internships at top companies like Amazon, inspiring the visitors.

The tour included a detailed visit to several state-of-the-art laboratories, where students had the opportunity to observe equipment, technologies, and ongoing research projects. Students enthusiastically learned about experimental techniques, research methodologies, and the real-world applications of concepts studied in their curriculum.

In addition to the BT & BI facilities, students also explored other departments of the University. This exposure allowed them to understand a wide range of engineering disciplines and sparked curiosity about diverse career paths.

INNOVATE WITH NVIDIA (HACKATHON)

The Innovate with NVIDIA hackathon was conducted on November 9th, 2025, as a 24-hour offline innovation challenge aimed at fostering creativity and hands-on technical learning. The event brought together enthusiastic participants from diverse domains such as artificial intelligence, blockchain, Internet of Things, game development, and generative AI. Organized into teams of four to six members, participants worked intensively on real-world problem statements across tracks, including Sustainability, Agri-Tech, FinTech, Product Development, GenAI, and Agentic AI. Expert mentors guided teams throughout ideation and development. Projects were evaluated on innovation, technical complexity, real-world impact, and presentation quality, concluding with live demonstrations and expert jury evaluation.

WIKIPEDIA RACE

ICP CREWSPHERE JUIT organized the Wikipedia Race on 8th November, 2025, a larger fest collaboratively conducted by the IEEE JUIT Student Branch and SIAM JUIT. Designed as a challenge of strategy and intuition, the event leveraged the inherently interconnected nature of Wikipedia to test participants' ability to navigate through quick decision-making. The collaboration showcased how mentally stimulating activities can be seamlessly integrated into large academic festivals. Core focus areas covered are strategic knowledge navigation, pattern and link recognition, decision-making under uncertainty, real-time adaptability and competitive analytical thinking. The collaborative initiative successfully delivered a curious, unconventional, and intellectually exciting experience that blended learning with high-paced strategy.

GOOGLE SUMMER OF CODE

ICP CREWSPHERE JUIT conducted an insightful and strategically curated session on Google Summer of Code on 10th November 2025, designed to provide students with a clear, practical, and industry-aligned understanding of the program. Moving beyond common myths, the session emphasized the true professional value of GSoC working with global open-source communities. The event maintained an interactive flow throughout, guiding students toward understanding how to begin their open-source journey. The session received active participation, with students demonstrating keen interest in structured open-source development and seeking clarity on how to begin contributing even before GSoC applications open. ICP CREWSPHERE successfully provided students with direction, confidence, and a realistic understanding of GSoC's long-term impact on technical growth, problem-solving maturity, and future career opportunities. A follow-up resource guide or study group was recommended to support sustained open- source engagement and deeper skill-building.

OUTREACH ACTIVITIES

Outreach activity to Roorkee and Karnal

Dr. Raj Kumar from the Department of BT & BI , conducted outreach sessions at various schools of Roorkee and Karnal from 28-10-2025 to 01-11-2025. In Roorkee, the major schools covered included Montfort School and Shivalik School, whereas in Karnal, Nishan Public School was covered.

Outreach activity to Sundernagar and Sarkaghat

Dr. Raj Kumar from the Department of BT & BI, conducted outreach sessions at various schools of Sundernagar and Sarkaghat from November 04-08, 2025. Major schools covered were Hillock Model SS School, Govt SS Girls School Sundernagar, DAV School Sundernagar, Mahavir Public School Sundernagar, BSL Public School Sundernagar, SPS International School Tatahar Sarkaghat, and Government Senior Secondary School Baldwara.

Outreach activity in Kullu region

A school outreach activity was conducted in the Kullu region from 10-15 Novermber, 2025 to create awareness about the academic offerings, career prospects, and scholarship opportunities at JUIT. The outreach team comprised Mr. Akash Bhardwaj, CE Department, and Mr. Praveen Kumar, Admission Cell. The objective of this visit was to interact with students from Class 12 (both medical and non- medical streams), provide career guidance, conduct technical sessions, and spread awareness about JUIT's programs.

Outreach activity in Solan region

A school outreach activity was conducted in the Solan region from 10-14 November, 2025 to create awareness about the academic offerings, career prospects, and scholarship opportunities at JUIT. The outreach team comprised of Dr. Rishi Rana Kalia, CE Department, and Ms. Jyoti Sharma, Admission Cell. The objective of this visit was to interact with students from Class 12 (both medical and non- medical streams), provide career guidance, conduct technical sessions, and spread awareness about JUIT's programs.

Career counseling session in School Fair at Convent of Jesus and Mary, Chelsea, Shimla

A career counseling session was organized at the School Fair at Convent of Jesus and Mary, Chelsea, Shimla, on November 13, 2025, at the mentioned institute with an objective to give publicity to the UG programmes being offered by the JUIT. Prof. Poonam Sharma, Deptartment of BT & BI, Dr. Shweta Pandit, Department of ECE and Ms. Deepalika Thakur were nominated to carry out this outreach activity. More than 200 students from X, XI and XII classes attended this Career Counseling Fair.

Outreach Activity at Ambala

An outreach activity was conducted on 23rd November 2025 at hotel Gagan Ambala. Around 200 students were gathered there from various schools of amabla and Chandigarh region. Dr. Ashok Kumar Nadda and Dr. Pardeep Garg were nominated to carry out this outreach activity. The students were guided about the scope of Engineering sciences incuding CSE & IT, AI/ML/DS, ECE, BT & BI, Microbiology, CE, mathematical Computing, and BBA or MBA courses.

Outreach Activity at JCB Senior Secondary School New Shimla and Chapslee School, Elysium Hill, Shimla

An outreach activity was conducted on 25th November 2025 at JCB, Senior Secondary School, New Shimla and Chapslee School, Elysium Hill, Shimla. Dr. Anil Kant addressed approximately 100 students at JCB Senior Secondary School and around 50 students at Chapslee School of the 10+2 level, in two separate sessions at the respective institutions. Dr. Anil Kant elaborated on how JUIT. stands out among private universities in terms of these parameters and overall student development. He informed that JUIT alumni are working in many MNCs worldwide, and have accomplished Masters & Doctoral level programs in world top ranking Universities including US, Europe.

Outreach Activity at Army Public School, Dagshai

A career counseling and awareness camp was conducted on 25th November 2025 at the school fair organized by Army Public School, Dagshai. The primary objective of the visit was to guide school students regarding higher education pathways, career opportunities, and the academic programs offered at JUIT. Students from Classes X, XI, and XII visited the JUIT counseling stall, and approximately 50 students interacted for career guidance and information about the courses offered. Students were guided on various career options in engineering, biotechnology, computer science, and allied disciplines.

Outreach at Kunihar and Arki

The sessions were conducted by the JUIT team, comprising Dr. Tyson and Mrs. Jyoti Sharma, who represented the university across multiple schools. On 28 November 2025, the outreach team visited GBSSS Arki, GGSSS Arki, and GSSS Kunihar, where students were briefed about higher-education opportunities, curriculum structures, campus facilities, and prospects for personal and professional development. On 29 November 2025, similar technical counseling sessions were conducted at SVN Kunihar and Lakshay Public School, Arki, ensuring that students from diverse academic backgrounds received appropriate guidance.

Outreach - OJT Program for Kohbhag Students at JUIT

Jaypee University of Information Technology (JUIT) organized a comprehensive residential On-the-Job Training (OJT) program for students specializing in the Information Technology Enabled Services (ITES) sector. Prof. Sudhir Syal discussed with Ms. Deepshikha Gaur, Principal of Kohbhag School, Shimla, regarding On-the-Job Training (OJT) program at JUIT and discussed its objectives and benefits for the students. After receiving her approval, Dr. Ankush Tanta from the Admission Cell coordinated and facilitated the organization of the OJT program with CSE&IT Department.

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