A NEWSLETTER OF JUIT

Hilly Ramblings

JAIPRAKASH SEWA SANSTHAN

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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
JUIT
विद्या तत्त्व ज्योतिसमः

NAAC ACCREDITED GRADE A+

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https://www.youtube.com/watch?v=LpEitGwcQ1s

Jaypee University of Information Technology, Waknaghat
www.juit.ac.in
https://www.juit.ac.in/news/hilly-ramblings

DSIR CERTIFICATION

It is a pleasure to inform you that the JUIT proposal for registration with the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, has been approved for customs duty exemption. Our registration is valid until 31.08.2027.

TELEGRAM : SCINDRECH
दूरभाष/ TEL : 26962819, 26567373
: 26565694, 26562133
: 26565687, 26562144
: 26562134, 26562122 (EPBAX)
फैक्स/FAX : 26960629, 26529745
: 26516078
Website : http://www.dsir.gov.in

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
वैज्ञानिक और औद्योगिक अनुसंधान विभाग
टेक्नोलॉजी भवन
नया महरौली मार्ग, नई दिल्ली – 110 016
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
Department of Scientific and Industrial Research
Technology Bhavan
New Mehrauli Road, New Delhi-110 016
Dated: 28.05.2025

No. TU/V/RG-CDE (971)/2025

To
The Registrar
Jaypee University of Information Technology
P.O. Dumehar, Waknaghat, Kandaghat
Solan – 173 234
Himachal Pradesh

Subject: Registration of Public Funded Research Institutions or a University or an Indian Institute of Technology or Indian Institute of Science, Bangalore or a Regional Engg. College, other than a Hospital*, for purposes of availing Customs Duty exemption in terms of Notification No. 51/96-Customs dated 23rd July, 1996, amended by Notification No. 43/2017 dated. 30.06.2017, further amended by Notification No. 42/2022-Customs dated 13.07.2022, Notification No.07/2024-Customs dated 29.01.2024; amended further vide Notification No. 38/2024-Customs dated 23rd July, 2024 as amended from time to time.
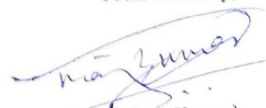
With Reference: Your requisition dated 30.08.2024 on the above subject, this is the certificate registration.

CERTIFICATE OF REGISTRATION

This is to certify that **Jaypee University of Information Technology, Solan, Himachal Pradesh** other than Hospital*, is registered with the Department of Scientific and Industrial Research (DSIR) for purposes of availing Customs Duty exemptions in terms of Notfn. No. 51/96- Customs dt. 23.07.1996, amended by Notification No. 43/2017 dated. 30.06.2017, further amended by Notification No. 42/2022-Customs dated 13.07.2022, Notification No.07/2024-Customs dated 29.01.2024; amended further vide Notification No. 38/2024-Customs dated 23rd July, 2024 as amended from time to time for research purposes only. This Registration is subject to terms and conditions mentioned overleaf.

This Registration is valid upto **31.08.2027**
Please acknowledge the receipt.

Yours faithfully,

(Vinay Kumar)
Scientist – 'F'

* Certificate of registration is not valid for activities falling within the definition of "hospital" as per notification no. 51/96 – Customs dated 23-07-1996 issued by the Department of Revenue. The institutions are cautioned to go through the notification before availing duty exemptions under this notification.

EXPANSIONS AND MODERNIZATION

DIGITAL LEARNING CENTRE (DLC)

World class facility enabled DLC with capacity of 120 students and surveillance camera including digital screens with video conferencing.

CAFETERIA

There are some significant extensions took place in JUIT Cafeteria, like beautification of interiors with more broader glass view of the valley and new ice cream parlour.

ADMISSION CELL

Exclusive well-structured, and exquisite-designed admission cell with ample space and fraternity for handling exclusive concerns regarding admissions.

THE IMPACT RANKING

OVERALL RANK

1501+ out of 2318 institutions

4 QUALITY EDUCATION

QUALIFYING SDG - 26% OF OVERALL

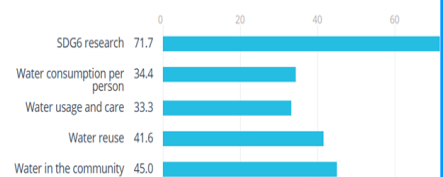SCORE **65.7** RANK **201–300** out of 1975 institutions

Details

SDG4 research	65.8
% grads w/ teaching quals	98.5
Lifelong learning measures	37.5
% 1st gen students	73.8
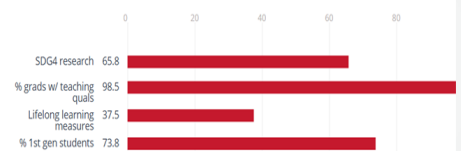
6 CLEAN WATER AND SANITATION

QUALIFYING SDG - 26% OF OVERALL

SCORE **47.1** RANK **401–600** out of 1042 institutions

Details

SDG6 research	71.7
Water consumption per person	34.4
Water usage and care	33.3
Water reuse	41.6
Water in the community	45.0

R World Institutional RANKING

TITANIUM

RANKED IN THE TITANIUM BAND:
Sustainable Institutions in India BY R WORLD INSTITUTIONS RANKING 2025

R World Institutional RANKING

PLATINUM

RANKED IN THE PLATINUM BAND:
OBE (outcome-based approach to education) BY R WORLD INSTITUTIONS RANKING 2025

PATENTS

Patent Published:

- **"A system and a method to display and navigate images using Voice Commands"**
  Inventors: Devank Kansal, Saksham Mittal, Vikas Baghel, and Shruti Jain.
  Application No.: 202511025087
  Date: April 04, 2025

- **"A composition and a process to extract and apply biopolymer-based Melanin Dye from as pergillus niger"**
  Inventors: Gunjan Dhupper, Jata Shankar, Ashok Kumar Nadda.
  Application No.: 202511027148
  Date: April 04, 2025

PhD COMPLETED

- **Suhani Bhagta (BT-196552)** completed her Ph.D. in May 2025.
  Title: RNAi Mediated Spray-Induced Silencing of Multiple Genes of Venturia Inaequalis for Apple Scab Management.
  Supervisor: Prof. Anil Kant, Dr. Vinay Bhardwaj

- **Jyoti (Maths-206851)** completed her Ph.D. in May 2025.
  Title: Iterative Methods for the Solution of Nonlinear Differential Equations.
  Supervisor: Dr. Mandeep Singh

- **Shalini Sharma (ECE-216005)** completed her Ph.D. in May 2025.
  Title: Quality of Service-Based Service Composition Optimization in Smart Agriculture.
  Supervisor: Prof. Rajiv Kumar, Dr. Bhupendra Kumar Pathak

- **Vishakha Thakur (ECE-196002)** completed her Ph.D. in May 2025.
  Title: Design and Development of Compact Mimo Antenna System for 5G Smartphone Applications.
  Supervisor: Dr. Naveen Jaglan

MoU WITH DR. PARTEEK KUMAR'S LAB, WSU, USA

The MoU was signed on June 02, 2025, between lab of Dr. Parteek Kumar, Associate Professor, School of Electrical Engineering and Computer Science, Washington State University (WSU), Pullman, WA, USA and JUIT especially in the area of Computer Science Engineering. Under this MoU, Dr. Parteek Kumar will provide opportunities in research and internship in the area of Machine Learning, Explainable AI, Large Language Models and AI Applications. Students will acquire hands-on experience in his lab by analyzing data with a range of computational tools.

BEST OF HIMACHAL' 2025
HONORED BY DEPUTY CHIEF MINISTER OF HIMACHAL PRADESH

विभिन्न क्षेत्रों में उल्लेखनीय उपलब्धियों के लिए 26 हस्तियों को किया सम्मानित

डिप्टी सीएम ने बेस्ट ऑफ हिमाचल कॉफी टेबल बुक का किया विमोचन

शिमला। अपने जीवन में विशेष उपलब्धियों, राज्य के विकास और प्रगति में योगदान देने के लिए हिमाचल प्रदेश के 26 गणमान्य लोगों को सम्मानित किया गया। यह सम्मान अमर उजाला बेस्ट ऑफ हिमाचल कॉफी टेबल बुक के लोकार्पण के अवसर पर बतौर मुख्य अतिथि पहुंचे उप मुख्यमंत्री मुकेश अग्निहोत्री ने दिए। इस समारोह में उद्यमी, कारोबारी, शिक्षा, चिकित्सा समेत विभिन्न क्षेत्रों में लोक से हटकर काम करने वालों को अलंकृत किया गया। कार्यक्रम की शुरुआत दीप प्रज्वलन से हुई। सरस्वती वंदना और लोकनृत्य की भी प्रस्तुति दी गई। समारोह का आयोजन गोयल मोटर्स के सहयोग से किया गया। मुकेश अग्निहोत्री ने इस अवसर पर कहा कि हौसलों से ही उड़ान होती है और निजी क्षेत्र में वही ठहर सकते हैं, जो काबिल हों और जिनके इरादे मजबूत हों। ब्यूरो

अपने काम से मिसाल पेश करने वाले ये लोग किए सम्मानित

सुकांत गोयल सुद एमडी गोयल मोटर्स, सहज शब्द गोयल सीईओ गोयल मोटर्स, जेपी यूनिवर्सिटी सोलन से वाइस चांसलर प्रो. डॉ. राजेंद्र कुमार शर्मा, बाहरा यूनिवर्सिटी वाकनाघाट सोलन के अनुराग अवस्थी, गौरव बाली, साहिल कुमार, कपूर सैनेटरी स्टोर सोलन से पंकज कपूर, हिमाचल हाउस सोलन से मुकेश जिंद, न्यू कृष्णा आभूषण भंडार घुमारवीं से संजय सोनी, डॉ. वाणी शर्मा मदर क्राफ्ट हॉस्पिटल कांगड़ा, अमित ठाकुर एमडी गुरुकुल पब्लिक स्कूल हमीरपुर, अनिल राणा एमडी सूर्य सिरमौर, राजीव वर्मा एमडी उषा सन्स ऑटो सिरमौर, जय सिंह ठाकुर एमडी द हॉलीडे पार्क प्रा. लि. मनाली, डॉ. शिवदीपानंद

शर्मा चीएमओ हॉस्पिटल सरकाघाट, चिरंजीव सेठी मैनेजिंग पार्टनर फार्म कमिको लेबोरेटरीज सोलन, संदीप राणा व मोहित सिंह ठाकुर डायरेक्टर आरटी बिल्डटेक प्राइवेट लि., विपुल गोयल समाजसेवी सोलन, अभिषेक जायता-अखिल मेहरा व अश्व जायता एमएस एकेडमी नादौन हमीरपुर, अनुज गुप्ता अध्यक्ष नगर पंचायत अर्की, रजत चौहान एमडी सनबीम इंटरनेशनल स्कूल जुब्बल, पंडित रवि शंकर (रवि मूर्ति वाले) कांगड़ा, कैप्टन एजो सिंह निदेशक षड़नोव स्कूल सोलन के अलावा एनाएचबीसी बनोखेट पंचा और चौकसी लेबोरेटरी लिमिटेड को भी सम्मानित किया गया।

मस्कुलर डिस्ट्रॉफी ने 16 साल की उम्र में व्हील चेयर पर बैठा दिया, फिर इसी पर किया काम

सोलन के विपुल गोयल 16 साल की उम्र में मस्कुलर डिस्ट्रॉफी की वजह से व्हील चेयर के सहारे चलने-फिरने को विवश हो गए। आज वह 67 वर्ष के हो गए हैं। उन्होंने इस पर काम करने को ही ध्येय बना लिया। वर्तमान में वह इंडियन एसोसिएशन ऑफ मस्कुलर डिस्ट्रॉफी के महासचिव हैं। उनका दावा है कि सोलन में उनके संस्थान में इस रोग पर विश्वस्तरीय काम हो रहा है। भारत के अपने मरीजों के अलावा पाकिस्तान, सऊदी अरब आदि से भी यहां इलाज के लिए लोग आ रहे हैं। उप मुख्यमंत्री मुकेश अग्निहोत्री ने मंच से नीचे उतरकर विपुल गोयल को सम्मानित किया और उनके जज्बे को समाज के लिए प्रेरणा बताया। उन्होंने कहा कि इनसे अन्य लोगों को भी प्रेरणा लेनी चाहिए।

अमर उजाला बेस्ट ऑफ हिमाचल कॉफी टेबल बुक के लोकार्पण के अवसर पर सम्मानित किए गए लोगों के साथ उप मुख्यमंत्री मुकेश अग्निहोत्री। -संवाद

समारोह में पंकज कपूर ने परिवार के साथ ग्रहण किया सम्मान। -संवाद

डॉ. वाणी शर्मा सम्मान ग्रहण करती हुई। -संवाद

जेपी विवि के वीसी डॉ. राजेंद्र शर्मा सम्मान ग्रहण करते हुए। -संवाद

बाहरा विवि के अनुराग अवस्थी सम्मान ग्रहण करते हुए। -संवाद

JUIT ALUMNI ACHIEVE GLOBALACADEMIC SUCCESS

From JUIT's Department of Biotechnology and Bioinformatics, Chirag, Ishika, and Rimjhim have completed their Master of Science (MS) degrees, while Payal and Priya have earned their Doctor of Philosophy (Ph.D.) degrees from the South Dakota School of Mines and Technology (SD Mines), USA, in the domain of Chemical and Biological Engineering.

Their academic pursuits were guided and financially supported through research assistantships under the mentorship of Dr. Rajesh Sani, a renowned expert in microbial engineering and sustainable biotechnology. The students were actively involved in cutting-edge research aligned with environmental sustainability and industrial bio-processes.

These accomplishments not only reflect the talent and diligence of the students but also underscore JUIT's emphasis on research, innovation, and international collaborations. The university continues to foster a culture that prepares students to contribute meaningfully to global scientific communities.

Such international recognition strengthens JUIT's reputation as a launchpad for aspiring researchers and professionals in biotechnology and engineering.

HR Conclave 2025

HR Conclave 2025 was a landmark event that brought together over 16 HR leaders, CEOs, Founders, and CXOs from across India. The event was organized by Training and Placement Team, JUIT from May 01-02, 2025. The event created a vibrant platform for networking, thought leadership, and strategic collaboration. Attendees hailed from major metro hubs and regional talent clusters, amplifying the conclave's national reach.

DISTINGUISHED HR SPEAKERS & ATTENDEES

1. Narinder Ahluwalia, Executive Vice President, Covalience
2. Debashish Ghosh, Senior Vice President, Berkadia
3. Ravneet Malik, Head - Campus Hiring & IB, Netsmartz
4. Ritu Sharma, Head - University Relations, Brillo
5. Teevrta Kaul, Head - Human Resource, Netsolutions
6. Anisha Raghav, Director - Human Resource, Edifecs
7. Akash Deep Sharma, Vice President – HR, Ind-Swift Group
8. Manisha Parmar, Associate Director, KPMG
9. Rishika Vohra, Manager - Talent Acquisition, Blu-Smart
10. Sanjeev Shantkumar Doshi, Chief General Manager (HR), RCFL
11. Narendra Sharma, Addl. General Manager – PMI, NTPC
12. Madhuri, Manager - Talent Acquisition, Paxcom
13. Jahanvi Singh, Digital Growth Specialist, SEO Discovery
14. Karishma Sharma, Assistant Vice President, EY
15. Sanjay Kumar Sharma, General Manager – HR, NFL Nangal
16. Riya Sharma, Head – HR, SEO Discovery

The recent initiative has significantly enhanced **JUIT's corporate branding**, positioning the university as a preferred destination for industry collaboration and academic excellence. The event has also driven **increased interest in internships and placements,** with leading organizations actively engaging with students.

Innovate to Excel 2025

The three-day innovation event, **Innovate to Excel 2025**, hosted by **JUIT, Waknaghat**, began on **May 2, 2025,** with the arrival and verification of participants. As a residential event, hospitality and logistics played a crucial role in setting the tone, ensuring that each participant especially those from outside campuses was smoothly checked in and allotted their accommodation. Students traveled from across North India to participate, including representatives from **Jaypee University, Anoopshahr, JIIT Noida, Kurukshetra University, Polytechnic College for Women, Kandaghat**, and other regional institutions. With over **100 enthusiastic participants,** the event promoted diverse cultural ex-change, collaborative energy, and a multidisciplinary innovation environment.

On May 3, 2025, the second day began with great enthusiasm and a vibrant schedule. The day opened with the Hacking Hills Hackathon, a 24-hour coding marathon hosted by **ACM** and **SIAM** student chapters in LT2. Teams formed to tackle real-world problems using their creativity and technical skills in software development. Running parallel to it was **Hard-Wired,** a hardware-based prototype challenge conducted in the ground floor hallway by **IEEE JUIT,** where teams engaged in component-level innovation and system assembly. These events tested both theoretical knowledge and real-time problem-solving under pressure.

The official kickoff of the festival took place at LT3 with the **Inaugural Ceremony**, followed by an insightful session led by a distinguished guest speaker Dr. Surender Singh Saini, Senior Principal Scientist at ISTC-CSIO, Chandigarh, who shared his journey in industrial innovation and research, compelling perspectives on international research collaboration and the role of youth in driving technological progress.

Soon after, the creative energy of the participants was channeled into Lenscape, a visual storytelling competition hosted by CSA, where participants captured themes like innovation, humanity, and change through their camera lens. At the same time, Hard-Wired teams began their evaluations, presenting their working prototypes to judging panels.

The afternoon featured two flagship events under TIEDC. The first was the Startup Panel discussion held in the DLC, which welcomed well-known startup consultants, founders, and investors. Mr. Ekant Aggarwal, Mr. Amit Madan, Mr. Hitesh Gulati, and Mr. Anmol Jamwal offered deep insights into entrepreneurship, funding, and the journey of building a startup. These professionals shared practical insights on business modeling, funding, go-to-market strategies, and the evolving Indian startup ecosystem. This interactive session gave participants direct exposure to what drives startup success and innovation leadership. Following the panel, the BoardRoom Simulation took place, providing students a dynamic setting to act as CEOs, CFOs, and startup founders pitching business plans and making executive decisions. The simulation was realistic and intense, pre-paring students for actual entrepreneurial board-level challenges.

In the engineering block, students took part in **Bridge Building** and **Tower Making**, events where teams constructed architectural models using basic materials and applied physics, creativity, and teamwork to compete for structural integrity and design innovation.

On **May 4, 2025**, the final day opened with **Codathon**, a coding competition hosted by the **Technical Club JYC**, running simultaneously with the final evaluation round of the *Hacking Hills* hackathon. These concluding events focused on logical thinking, software design, and product viability. Participants showcased their final builds and explained the impact, scalability, and usability of their solutions.
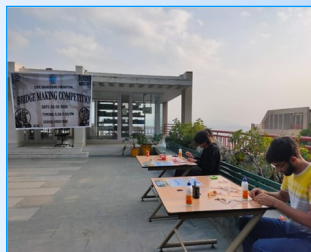
The Grand **Prize Distribution and Closing Ceremony** was held in CR3, where top performers across all events were honored.

FACULTY DEVELOPMENT PROGRAM
VLSI DESIGN: BRIDGING THEORY AND PRACTICE

The Department of ECE organised FDP on VLSI Design : Bridging Theory and Practice in collaboration with Electronics & ICT Academy, Centre for Development of Advanced Computing (CDAC),

Mohali, IEEE R10 EAC, IEEE India Council, IEEE Delhi Section, IEEE MDC, SAC and WIE AG Delhi Section and IEEE JUIT SB from June 9-13, 2025.

The FDP was formally inaugurated by the Chief Guest, Mr. V.K. Sharma, Scientist-G and Director at CDAC Mohali on June 9, 2025. Dr. Manoj Saxena from University of Delhi, and Dr. Balwinder Singh from CDAC Mohali were guest of eminence and guest of honor respectively.

In the inaugural address, Mr. Sharma emphasized the importance of VLSI design in the context of India's growing semiconductor ecosystem. He highlighted ongoing national initiatives focused on self reliance in chip design and manufacturing. His insights motivated the participants and outlined the critical role of academic-industry collaboration in building future-ready engineers in the field of VLSI.

Resource persons of the FDP were

1. Mr. V.K. Sharma, Scientist-G, Director, CDAC Mohali (Chief Guest)
2. Prof. Rajendra Singh, Department of Physics, IIT Delhi (Resource Person)
3. Prof. Sudeb Dasgupta, Department of ECE, IIT Roorkee (Resource Person)
4. Dr. Balwinder Singh, Scientist-E, CI, E&ICT Academy, CDAC Mohali (Guest of Eminence & Resource Person)
5. Prof. Manoj Saxena, Department of Electronics, University of Delhi (Guest of Honor & Resource Person)

6. Mr. Harpreet S. Jatana, Former Group Head, SCL Mohali and ISRO (Resource Person)

With the participation of 42 participants from 13 states across 28 institutions, this professional development initiative aimed to bridge the gap between academic teaching and industry demands in VLSI technology.

ACM India Summer School 2025

The ACM India Summer School 2025 on Quantum Circuits and

Quantum Algorithms was organized and hosted by the CSE Department from June 9 to 20, 2025. The summer Sshool brought together lead-ing faculty and 38 selected students for an intensive 11-day training program in quantum circuits and algorithms. Sessions featured a blend of theory, problem-solving, and hands-on simulation using Qiskit. The active involvement of esteemed instructors from premier institutions across India and abroad ensured high-quality delivery and engagement. The school also served as a platform to identify and en-courage two outstanding students, who will be nominated for recogni-tion at the upcoming ACM India Annual Summit. An intellectually

vibrant and deeply engaging two-week journey, the ACM India Sum-mer School 2025 concluded with a valedictory ceremony.

FAREWELL – JUIT BATCH OF 2025

JUIT Solan, witnessed a poignant and unforgettable moment on May 16, 2025, as the university extended a warm and emotional farewell to its graduating batch of 2025. Organized by the JUIT Alumni Cell, the valedictory Dinner with the Vice Chancellor was held at the university auditorium and later transitioned into a celebratory evening at the porch area, capturing the spirit of camaraderie and nostalgia.

The event was flawlessly coordinated under the leadership of Dr Saurabh Bansal, faculty in charge JAC and his core team of students, Unnati Pant, Shantanu Tripathi, Shreshth, Arin, Vardaan, Anvesha, Ridhima, Vidit, Mannat , Shrishti and Raghav . A highlight of the evening was the cake-cutting ceremony, which was met with cheers, laugh-ter, and heartfelt farewells. The farewell was a testimony to the bonds formed at JUIT—bonds that will be carried forward into the future.

TWO-WEEK NATIONAL WORKSHOP ON DYNAMICAL SYSTEMS AND CONTROL

A two-week National Centre for Mathematics (NCM) workshop on "Analysis of Dynamical Systems and Applications to Control Systems" was successfully organized by the Department of Mathematics, JUIT Waknaghat, Solan, Himachal Pradesh, from June 9-21, 2025.

The workshop was conducted in collaboration with the National Centre for Mathematics (a joint centre of IIT Bombay and TIFR, Mumbai). This academically enriching event brought together eminent mathematicians, researchers, and students from across the country to delve into advanced topics in dynamical systems and their applications in control theory.

The workshop hosted a distinguished panel of speakers including Prof. Syed Abbas from IIT Mandi, Prof. A. K. Nandakumaran from IISc Bangalore, Prof. Mani Mehra from IIT Delhi, Dr. D. N. Pandey from IIT Roorkee, Dr.

Bidhan Chandra Sardar from IIT Madras, and Dr. Tanmay Sarkar from IIT Jammu. Their lectures spanned a wide range of topics in mathematical modeling, stability analysis, nonlinear systems, and control theory, providing the participants with deep theoretical insights and current research trends in the field.

In addition to the lectures, tutorial sessions were conducted by Dr. Ranjith T from IISc Bangalore, Ms. Deeksha Srivastava from IIT Roorkee, Mr. Shivam Mishra from IIT Mandi, and Mr. Sarvesh from IIT Delhi. These sessions focused on hands-on problem-solving and helped participants to apply theoretical knowledge to practical and computational problems. Participants, including faculty members, doctoral candidates, and postgraduate students from various parts of India, actively engaged in the discussions and sessions throughout the two-week program.

JOURENY FROM IDEA TO PATENTS

The IPR Cell of JUIT organized an insightful knowledge-sharing session titled "Journey from Idea to Patent" on 21st May 2025. The event was well-attended by faculty members and Ph.D. scholars of the university, reflecting the growing interest and importance of Intellectual Property Rights in academic research and innovation. The session was graced by Dr. Anita Sardana as the resource person. Dr. Anita shared her valuable knowledge and experiences from her journey in the field of patents, covering critical aspects of how an idea is nurtured, developed, and protected through patent filing and prosecution. She explained the process flow

of Patent filing till grant and importance of various steps in it. She resolved the queries of participants on matter of utility and grant patents.
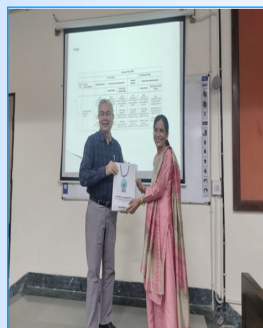
HOW TO WRITE A SUCCESSFUL RESEARCH PROJECT

A one-day Faculty Development Program (FDP) titled *"How to Write a Successful Research Project"* was successfully organized on 03 May 2025 from 11:00 AM in **Digital Learning Center**. The resource person of the event was **Prof. Mukesh Singh**, Senior Member IEEE, Department of Electrical and Instrumentation Engineering Thapar Institute of Engineering and Technology (TIET), Patiala. An alumnus of IIT Guwahati, Prof. Singh brings with him a wealth of experience, having secured a cumulative research grant of ₹23 Crores.

The event was aimed at equipping faculty members and Ph.D. scholars with practical insights into writing effective and fundable research proposals.

Prof. Mukesh Singh's sessions covered key elements of a compelling proposal, including clarity of objectives, alignment with funding agency priorities, structuring the proposal, and budgeting strategies. Prof. Singh discussed examples from his own funded projects, highlighting common pitfalls and best practices that contribute to successful grant acquisition.

The interactive format allowed participants to engage with the resource person, ask questions, and reflect on their own research plans. The session concluded with a vote of thanks to Prof. Singh for his time and expertise, and to all participants for their enthusiastic involvement. Feedback from the attendees was overwhelmingly positive, with several suggesting follow-up workshops and extended sessions on related themes.

WORKSHOP ON FOSTERING VISIONARY ACADEMIC LEADERSHIP FOR INSTITUTIONAL EXCELLENCE

On **June 02, 2025**, at the **DLC,** the event was commenced at **10:00 AM**, aiming to promote awareness and academic engagement.

The event was graced by **Dr. Prateek Kumar**, a distinguished faculty member from the **School of Electrical Engineering and Computer Science, Washington State University, USA**, as the keynote speaker. Insights into graduate studies and collaborative research in the USA

Dr. Kumar's presentation was followed by an interactive Q&A session where participants enthusiastically engaged in discussions on signal processing applications, research pathways, and global opportunities.

MONSOON-MIND: PREDICT THE RAIN- AN AI CHALLENGE ON CLIMATE ACTION

The Monsoon-Mind: Predict the Rain-An AI Challenge on Climate Action was organized by the Centre of Excellence in Artificial Intelligence for Education (CoE-AIE) during 17 April –14 May 2025. This event is inspired by United Nations Sustainable Development Goal 13: Climate Action. Through this challenge, aimed to foster data-driven thinking and innovation in climate modeling using Artificial Intelligence. This event empowers students to contribute meaningfully to one of the most pressing global challenges, climate change, through the lens of AI and sustainability.

A total of **8 teams** registered for the event, representing a diverse mix of students from second-year to pre-final-year students. The participants came with backgrounds in python programming, artificial intelligence, and related fields, bringing unique perspectives and skillsets to the competition.

The broad diversity in experience levels and the collaborative spirit of the event led to the generation of innovative solutions that were both technically sound and creative.

Over the course of four weeks, participants were tasked with developing machine learning and deep learning models to predict Indian Summer Monsoon Rainfall (ISMR) using historical climate and rainfall data. The core objectives of the challenge included:

- **Understanding and Preprocessing Monsoon Data:** Participants worked with historical rainfall datasets, potentially combined with other climate indicators like temperature, pressure, or Niño indices.
- **Building Predictive Models:** Competitors applied techniques such as:
  Classical ML models (Linear Regression, Random Forests, etc.)
  Deep Learning models (ANNs, LSTM, Bi-LSTM, etc.)
- **Evaluating Prediction Accuracy:** Models were judged based on accuracy metrics like RMSE, MAE, and visualizations comparing predicted vs actual rainfall.

Winners

First Place: Aditya Singh & Bhumika Gupta (Pre-Final-Year Students)

Second Place: Ramandeep Singh Makkar (Pre-Final-Year Student)

Third Place: Deepankar Sharma (Pre-Final-Year Student)

Connecting Students to Semiconductor Industry

The Department of ECE organized a one-day expert workshop on Very-Large-Scale Integration (VLSI) and related career opportunities on May 01, 2025. The event

was conducted in collaboration with VLSI for All Pvt. Ltd., Noida (U.P.), and featured a keynote session by Mr. Rajat Kumar Singh, CEO of VLSI for All and a seasoned professional in the semiconductor industry.

Mr. Singh opened the session with an in-depth overview of the current state of VLSI technology and its transformative impact across industries such as mobile communications, autonomous vehicles, IoT, and artificial intelligence. Emphasizing the rapidly growing demand for skilled VLSI professionals, he highlighted the significant talent gap, particularly in India, and the need for academic institutions to prepare students accordingly.

Drawing from his own academic and professional journey, Mr. Singh offered students valuable insights on building a career in the VLSI domain. He stressed the importance of industry-recognized certifications, int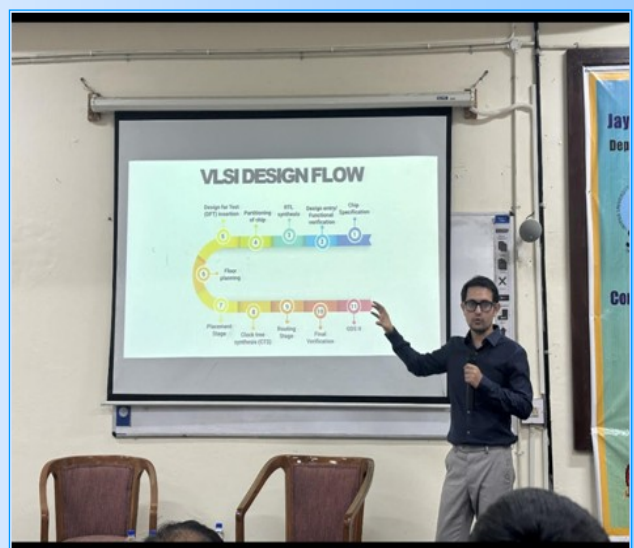ernships, project-based learning, and staying updated with the latest technological trends. "Stay curious and keep learning—the VLSI industry thrives on innovation and continuous advancement," he advised.

The session stood out for its **interactive format**, with Mr. Singh responding to student queries and engaging in discussions around career pathways, essential technical skills, and global industry trends. His personal anecdotes as a former student helped create a motivational connection with attendees.

A key take away from the session was Mr. Singh's emphasis on practical exposure, encouraging students to actively pursue hands-on projects, internships, and entrepreneurial ventures in the semiconductor space. He underlined that innovation in VLSI offers vast potential not only for employment but also for start-up opportunities in the Indian context.

The workshop witnessed enthusiastic participation from both B.Tech. and M.Tech. students, as well as faculty members from the ECE department. The session aimed to provide a holistic understanding of the global VLSI ecosystem and to motivate students to explore the multitude of opportunities available in this rapidly evolving field.

In his concluding remarks, Mr. Singh expressed optimism about India's potential to lead in the global semi-

conductor arena, and encouraged students to take advantage of the emerging prospects in the VLSI industry.

FELICITATION PROGRAM FOR JUIT GAT - B MOCK TEST ACHIEVERS

At the beginning of the event the students and guests were welcomed by Prof Anil Kant the coordinator of the event. He told the Graduate Aptitude Test (GAT-B) is conducted by DBT, Govt. of India via NTA and

qualified student get opportunity to get admissions in post graduate programs in Biotechnology and related fields in some the the topmost institutes of India with a

scholarship ranging from Rs. 5000 to Rs. 12000 depending upon the stream. He hailed the students for

their achievement and said that every achievement is a promise that their potential has no limits. The event was conducted on 10th May, 2025.

Prof Rahul Shrivastva took feedback from the students about their experience and exposure. He also thanked JUIT administration and authorities for all the facilities and approval to carry out the Mock GAT B test at various colleges.

After the main event a visit of invited students to laboratories and facilities in the Department of Biotechnology and Bioinformatics and Jaypee University Campus was carried out.

SUMMER TRAINING WORKSHOP

A Six-Week Summer Training Workshop was organized by the Department of Biotechnology and Bioinformatics for M.Tech./B.Tech./M.Sc./B.Sc. students from June 03—July 15, 2025. The workshop provides lectures and rigorous Hands-on-Training to outside participants in various modules - Molecular Biology and Genetic Engineering Techniques, Bioinformatics, Industrial Plant Tissue Culture, Microbial Pathogens, Medical Genomics & Animal Handling etc.

# MICROSOFT AZURE IGNITE 2.0 – A DAY OF INSIGHT, INNOVATION, AND INSPIRATION

Three students (Nivi Jha (Roll No. 231030106), Aarya Gupta (Roll No. 231030108), and Raavi Aggarwal (Roll No. 231031009)) from JUIT, Solan recently had the opportunity to attend **Microsoft Azure Ignite 2.0** in Noida, that brought together industry leaders, developers, and students to explore the future of cloud, AI, and software innovation on June 20, 2025. The event was a transformative experience for the attendees, offering not only technical knowledge but also actionable career guidance and invaluable networking opportunities.

One of the key highlights of the event was the session by **Mr. Ashish Kumar Verma,** who delivered a compelling talk on advanced Artificial Intelligence systems. He broke down complex concepts such as Large Language Models (LLMs), Minecraft agents, Retrieval-Augmented Generation (RAG) pipelines, and Agentic Memory into digestible insights that were accessible to both students and professionals. His session challenged attendees to think beyond technical implementation and explore AI as a mindset and a problem-solving approach.

Another standout session was led by Mr. Ankush Dharkar, who provided practical career advice tailored to aspiring technologists. He emphasized the importance of building resumes that reflect impact rather than just listing skills, understanding the nuances of Applicant Tracking Systems (ATS), and using referrals and personal branding as strategic tools in the job market. His guidance resonated with students seeking direction in a competitive landscape.
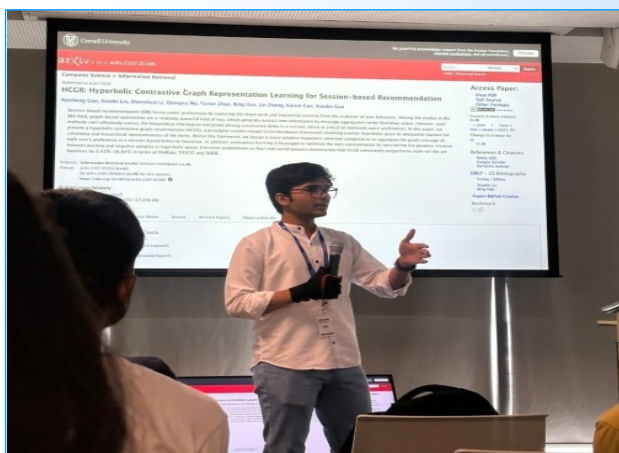
Harsh A., known for his product and startup insights, focused on the evolving SaaS ecosystem. He outlined
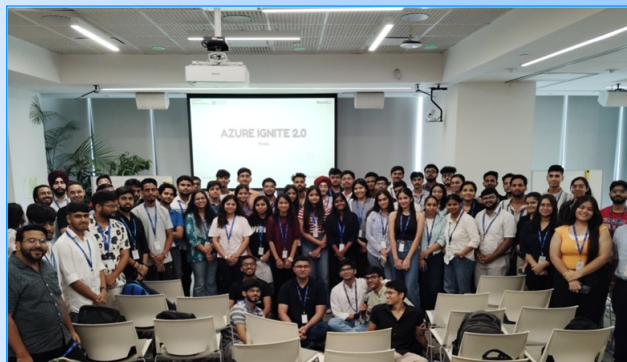
how today's most successful products are those that solve real problems and highlighted the role of platforms like G2 and Product Hunt in product discovery. He also explored how psychological triggers, such as FOMO (Fear of Missing Out) and YAMO (You're Also Missing Out), can be powerful tools for product posi-

tioning and user acquisition.

The event was expertly curated by **Azkar Uddin Khan** and hosted with great energy by **Devansh Singh Parmar**, ensuring smooth transitions between sessions and maintaining a vibrant atmosphere throughout the day.

All three students (Nivi, Aarya, and Raavi) reflected positively on their experience, noting that the event provided a rare blend of technical learning, industry exposure, and motivational storytelling. In particular, they found value in the direct interactions with professionals who bridged the gap between academic knowledge and real-world application.

FACULTY CORNER

- **Prof. Hemant Sood** from the Department of Biotechnology and Bioinformatics, JUIT delivered an insightful expert lecture on "Intellectual Property Rights: Management and Commercialization as part of the Faculty Development Programme (FDP) organized by IQAC of Centre of excellence at Government College Sanjauli, Shimla on May 15, 2025. The session offered deep insights into the importance of IPR in academia and research, fostering awareness and innovation among faculty members.

- **Dr. Kaushal Kumar** served as a session chair at – ISCESTI (International Conference on Innovations and Sustainability in Civil Engineering) 2025 organized at National Institute of Technology (NIT) Patna on May 14–16, 2025.

- **Dr. Amardeep** successfully completed the NEP 2020 Orientation & Sensitization Programme under the UGC's Malaviya Mission Teacher Training Programme (MMTTP), held from June 9–18, 2025, at Shri Mata Vaishno Devi University, Katra. He was awarded an "A+" grade, demonstrating excellence in understanding and aligning with NEP 2020 principles.
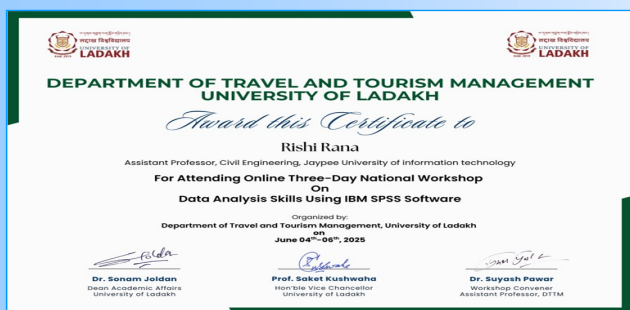
- **Dr. Rishi Rana Kalia** attended Three-Day National Workshop on "Data Analysis Skills Using SPSS Software", held from June 4 to June 6, 2025 through virtual mode at Department of Travel and Tourism Management, University of Ladakh.

BRIDGE MAKING COMPETITION

A Bridge Making Competition igniting innovation through structural ingenuity was organized by Civil Engineering Consortium (CEC) in Collaboration with IIC on May 03 & 04, 2025 at Dhyan Kaksh (DK) & Open Cafeteria (OC), JUIT. The competition was successfully coordinated by a dedicated team of 3rd-year CEC members, who managed everything from logistics to participant engagement with professionalism and enthusiasm. Teams of 4–5 participants were tasked with building structurally sound and aesthetically creative bridges within a fixed time frame using only the provided materials. A total of 16 students took part in this exciting challenge. The construction phase witnessed impressive displays of ingenuity. The enthusiasm of the participants, the dedication of the organizing team, and the gracious support of our esteemed faculty members turned this event into a memorable and meaningful experience .


OUTREACH ACTIVITY

Prof. Ashish Kumar on 29th May, 2025 delivered lecture at the District-Led Deliberation (DLD) organized under the aegis of CBSE, held at Gurukul International Sr. Sec. School, Solan (HP). The event was part of CBSE's in-house teacher training of the CBSE Training Modules, focusing on "Experiential Learning through motivated STEM." He conducted two interactive sessions on the topic: Project-Based Learning (PBL) & Real-World Application in ICT and Assessment and Implementation Strategies for Experiential ICT. A total of 40 PGT Teachers from 8 different schools of Solan District attended the session. They were motivated to implement Project-based learning in their academic activities.
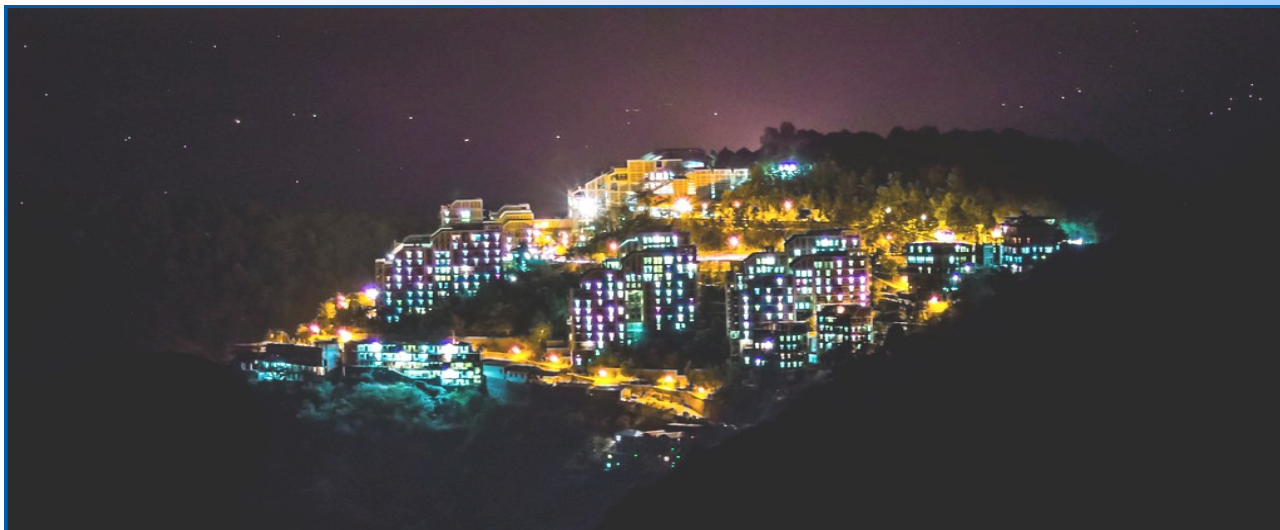
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