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**EDUSPHERE** | **INSPIRED SOULS**



A NEWSLETTER OF JUIT

# Hilly Ramblings



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**siam JUIT**  
Society for Industrial and Applied Mathematics

# Congratulations

## On Your Promotion



**Dr. Anil Kant Thakur**  
Professor, BT & BI



**Dr. Gopal Singh Bisht**  
Professor, BT & BI



**Dr. Hemant Sood**  
Professor, BT & BI



**Dr. Rahul Shrivastava**  
Professor, BT & BI



**Dr. Amit Srivastava**  
Professor, HSS



**Dr. Pardeep Kumar**  
Professor, CSE & IT



**Dr. Shweta Pandit**  
Associate Professor, ECE



**Dr. Amit Kumar**  
Associate Professor, CSE & IT



**Dr. Sanjeev Kumar Tiwari**  
Associate Professor, PMS



**Dr. Raj Kumar**  
Assistant Professor (SG), BT & BI



**Dr. Niraj Singh Parihar**  
Assistant Professor (SC), CE



**Dr. Deler Singh**  
Assistant Professor (SG), HSS

# Welcome

## To New Faculty



**Dr. Gopendra Vikram Singh**  
Assistant Professor (SG), CSE & IT



**Dr. Jyoti**  
Assistant Professor (Grade-II), CSE & IT



**Mr. Kuntal Sarkar**  
Assistant Professor (Contractual), CSE & IT

## 6<sup>TH</sup> CONVOCATION CEREMONY

The 6<sup>th</sup> Convocation ceremony of Jaypee University of Information Technology (JUIT), Wagnaghat, Solan, H.P. was held on July 06, 2024 from 10:30AM at the university auditorium. The opulent event was graced by Honorable Governor and Chancellor of JUIT, Sri Shiv Pratap Shukla Ji, Pro Chancellor, JUIT, Sri Manoj Gaur Ji, Pro Chancellor JIIT, Professor (Dr.) S.C. Saxena, Vice Chancellor JUIT, Professor (Dr.) R.K.Sharma, Registrar and Dean of Students, JUIT, Maj Gen (Retd) Rakesh Bassi, Members of the Governing Council and Academic Council, guests, parents, faculty, staff members and alumni of JUIT. Endearing welcome address was rendered by Prof. R. K. Sharma, expressing his gratitude to all the stakeholders including parents and students for their unstinted support and cooperation in making JUIT a world class university. He also presented the annual report of JUIT highlighting the key achievements such as NAAC accreditation of JUIT with an A+ Grade on April 26, 2024 for five years, JUIT's prominent place in QS Asia University Rankings 2024 and in World University Rankings 2024 by Times Higher Education, the excellent placement records of JUIT, the patents, publications, new programs offered and other recent academic and research accomplishments of JUIT. He concluded his welcome address by motivating words to alumni and thanking all for their gracious presence. The convocation continued with the address of Honorable Sri Manoj Gaur Ji, Pro Chancellor JUIT. He started his speech with a quote by Nelson Mandela, who once said, "Education is the most powerful weapon which you can use to change the world." He shared some pearls of wisdom with the students, "I would like to tell my students that the pursuit of success should not be confined to acquiring material wealth or professional acclaim. Rather, let it be measured by the impact



you make upon the lives of others and the legacy you leave upon the records of history. Cultivate a thirst for knowledge that knows no bounds, nurture a spirit of compassion that transcends borders, and embrace future challenges with unwavering resolve. Be disciplined, read the Shrimad Bhagwat Gita". After the inspiring words by Honorable Sri Manoj Gaur Ji, Honorable Governor and Chancellor of JUIT, Sri Shiv Pratap Shukla Ji, delivered his convocation speech. He started his speech with the quote by



Arnold H. Glasow, "Success is not the result of spontaneous combustion. You must set yourself on fire." He mentioned that convocation is more than a ceremony; it is a rite of passage. It signifies the end of one chapter and the beginning of another. He urged the graduates to be at the forefront of this transformative era, equipped with the skills and knowledge to make

significant contributions in the development of the country. He also talked about the National Education Policy (NEP) and praised JUIT for shaping students into the individuals they are today. He concluded his speech by congratulating students, wishing them good luck and quoting golden words of Ralph Waldo Emerson: "What lies behind us and what lies before us are tiny matters compared to what lies within us." He exhorted the students with the words, "Embrace your inner strength, step forward with confidence, make a meaningful difference, and let your light continue to shine brightly." The conferring of degrees commenced with Dean (Academics), Prof. (Dr.) Ashok K Gupta, presenting the PhD students, Master's students and Undergraduate students of graduating batches for award of degrees. Students received their degrees by Vice Chancellor, Dr. R. K. Sharma. In total, 3125 degrees were conferred to UG students (2605), M. Tech students (305), Dual degrees (66) and PhD students (149). After distribution of degrees, the Vice Chancellor charged them by Administering 'The Pledge'. The proud UG and PG recipients of Chancellor's Gold Medals and Vice Chancellor's Gold Medals received their medals from the honorable Chancellor and Pro Chancellor of JUIT.

## PATENTS

### Patent Granted:

- **“A symbiotic formulation of sea buckthorn (*Hippophae rhamnoides L.*) berries with radical scavenging potential”**,

Inventors: Gargi Dey, Bharti Negi. Date of Grant: July 23, 2024.

### Design Patent Granted:

- **“Shared Aperture Antenna”**, Inventors: Jonny Dhiman, Sunil Kumar Khah. Journal No 30/2024 and Journal Date 26/07/2024.
- **“Portable Barcode Scanner”**, Inventors: Aman Sharma, Shruti Jain, and Sunil Khah. Journal No 30/2024 and Journal Date 26/07/2024.
- **“Phytoreactor”**, Inventors: Shivam Sharma and Hemant Sood. Journal No 27/2024 and Journal Date 05/07/2024.
- **“Clothes Dryer Machine”**, Inventors: Anita Sardana, Nancy Singla, Ekta Gandotra, and Deepak Gupta. Journal No 34/2024 and Journal Date 23/08/2024.
- **“Smart Spectacles Cleaner Case”**, Inventors: Anita Sardana, Chetna Monga, Aditya Prasad. Journal No 35/2024 and Journal Date 30/08/2024.

### Patent Published:

- **“Smart Mobile Cover System With AI-Driven Safety Features and Real-Time Protective Mechanisms”**  
Inventors: Saurav Kumar, Pardeep Garg, Akash Pratap Singh, Date: August 23, 2024.
- **“Next-Gen Extendable Dual Sun Visor System for Commercial Vehicles”**  
Inventors: Saurav Kumar, Pardeep Garg, Yash Tripathi, Shubhrang Raj , Date: August 09, 2024.
- **“Biodegradable Composite Sponge from Microalgal Biomass for Green Packaging and Water Treatment Applications”**  
Inventors: Kriti Sharma, Ashok Kumar Nadda, Date: August 09, 2024.
- **“Dynamic gesture-based control system for interactive presentations with real-time adaptive zoom and annotation capabilities”**  
Inventors: Pranjal Thakur, Aditya sood, Prateek Thakral, Shruti Jain, Date: August 02, 2024
- **“AI and ML-based Driver Behavior Monitoring System for Enhanced Accident Prevention”**  
Inventors: Hridhima Sen, Vaibhav Sharma, Tanish Mahajan, Diksha Hooda, Jata Shankar, Date: July 26, 2024.
- **“AI-Powered Dish Recommendation System for Personalized Cooking Assistance”**  
Inventors: Anita Sardana and Seema Rani, Date: July 26, 2024.
- **“IoT and AI-Powered Robotic Arm System for Automated Plant Sowing and Weed Removal”**  
Inventors: Aman Sharma, Diksha Hooda, Date: July 12, 2024.
- **“Biodegradable Biopolymeric Film Derived from Chicken Feathers for Sustainable Packaging”**  
Inventors: Piyush Kumar Kesharwani, Megha Mourya, Ashok Kumar Nadda, Date: July 12, 2024.
- **“System for Predicting User Behavior Using Advanced Keystroke and Biometric Data”**  
Inventors: Vipul Arora , Aastha Verma, Rakesh Kanji, Date: July 12, 2024.
- **“Smart Clothes Drying Appliance with Automated Shifting and AI-Enhanced Drying Mechanism”**  
Inventors: Anita Sardana, Date: July 12, 2024.
- **“AI-Powered Automatic Eyeglass Cleaning System”**  
Inventors: Anita Sardana and Vivek Sehgal, Date: July 05, 2024.

## FACULTY CORNER

- **Dr. Pardeep Garg** has been listed in the **top 0.5%** of all scholars **Worldwide** by **Scholar GPS** on August 3, 2024 for his strong publication record, the impact of his work and the notable quality of his scholarly contributions.
- **Dr. Shruti Jain**, Prof. & Associate Dean (Innovation), JUIT organised 5<sup>th</sup> International Conference on Mobile Radio Communications and 5G Networks (MRCN-2024) in collaboration with UIET , Kurukshetra from August 23-24, 2024. She also chaired a session in this conference.
- **Panel Discussion** on "Global Innovations: IEEE's Role in Engineering a Connected Future" was moderated by Prof. Shruti Jain, Associate Dean (Innovation), JUIT and Prof. Rashmi Agarwal, WIE Chair, Delhi Section. The panelists were Prof. Rachana Garg, Past Chair, Delhi Section, Sr. Prof. Mridula Gupta, Past Chair, EDS Delhi Chapter, Prof. Suparna Kar Chowdhury, Chair Kolkata Section, Prof. Rajnish Sharma, Vice Chancellor, Chitkara University, Baddi, Himachal Pradesh.
- **Dr. Niraj Singh Parihar** attended and co-organized-workshop on Disaster Risk Assessment from July 22-26, 2024. He also attended lecture series on-Field Oriented challenges in Civil Engineering from August 5-9, 2024 organized by NIT Jamshedpur. On August 23, 2024 he attended-Lecture on Forensic Geotechnical Engineering Organized by Student chapter, IGS Roorkee
- **Dr Poonam Sharma** delivered Lecture on the Significance of Sustainable Chemistry as a resource person in Inter-College Two Days Workshop “CHEMCOM” (GREEN AND SUSTAINABLE CHEMISTRY) on August 28-29, 2024 Under DBT STAR College Scheme organized by Deptt. of Chemistry, Centre of Excellence, Govt. College, Sanjauli, Shimla.
- **Prof. Ashish Kumar and Prof. Shruti Jain** attended Capacity building workshop “CATALYSING INNOVATION: Building Sustainable Incubator Growth Model” on August 22, 2024 organized by IIT Mandi.



## INSIGHT FOR SIGHT

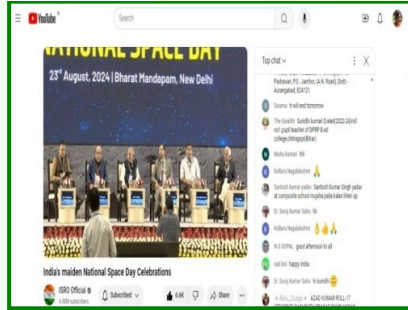
The Drishti, IEEE SIGHT JUIT SB in collaboration with SIGHT IEEE Delhi Section organized an engaging podcast titled "INSIGHT FOR SIGHT" on August 2, 2024. Dr. Diksha Hooda, Deptt of CSE & IT graced the event with prestige and setting the stage for an



enriching experience. Mr. Satvik Pandey, a third-year B.Tech.CSE hosted the event. The session aimed to explore strategies for fostering willpower and resilience in students to help them overcome academic challenges.

## NATIONAL SPACE DAY

Prof. Ashok Kumar Gupta, Dean A& R and Prof. Shruti Jain, Associate Dean (Innovation), JUIT attended the Live Streaming of the event to celebrate National Space Day held at Bharat Mandapam, New Delhi on August 23, 2024.



**Guest Lect, Poster and Model Competition, and Declamation Contest on NSD:** JUIT celebrated First National Space Day on August 23, 2024 with a series of engaging and educational events aimed at promoting interest in space science and exploration. A total of 130 students from different schools registered for the event. The schools that participated in the event were Delhi World Public School, Kandaghat, Elite International School, Genius Global School, Solan, Tagore Vanasthali Public School, Kasauli, GSSS Bhoj Anji Solan, Govt. Model SSS Barotiwala, GSSS Salogara and Him Academy, Wagnaghat. The celebration included an expert talk, a declamation contest, a poster competition, and a model making competition. The event was a resounding success, showcasing the enthusiasm and creativity of the students and all the participants. The day began with an enlightening expert talk delivered by Dr. Harish Chandra Karnatak, a renowned space scientist from ISRO. Dr. Harish shared invaluable insights into "the latest advancements in satellite technology". Dr. Harish emphasized the importance of interdisciplinary collaboration in space exploration and inspired the audience with stories of pioneering missions and



discoveries. The session concluded with a Q&A segment, where students actively engaged with the expert, asking questions about the practical challenges and exciting opportunities in space science. Following the expert talk, the declamation contest featured participants who delivered passionate speeches on various space-related topics. The themes ranged from the potential for life on other planets to the ethical implications of space colonization. The contestants demonstrated exceptional oratory skills, combining scientific knowledge with persuasive arguments and creative expression. Judges evaluated the speeches based on content, delivery, and originality. The winners were awarded for their impactful presentations, and the contest was a testament to the participants' deep interest in and understanding of space science. The poster competition showcased the artistic and scientific talents of school students. Participants created

visually captivating posters that illustrated various aspects of space science, including celestial phenomena, space missions, and the solar system. The winning posters were displayed in a dedicated exhibition area, allowing attendees to appreciate the students' efforts



and learn more about space through their work. The model making competition featured detailed and imaginative models related to space exploration. Students crafted models of rockets, spacecraft, and celestial bodies, showcasing their technical skills and creativity. The models were judged on accuracy, craftsmanship and overall design. Participants demonstrated a high level of detail and innovation, with some models incorporating moving parts and interactive elements. The competition highlighted the students' ability to translate theoretical knowledge into tangible representations of space technology and exploration.

## INDUCTION PROGRAM FOR FIRST YEAR STUDENTS 2024

The induction program for Batch 2024, was held from July 19-27, 2024. The program aimed to acclimate new students to the university environment, foster a sense of community and provide essential information and resources for their academic and personal growth. The event was meticulously planned to ensure a smooth transition for students into their new academic life.

### Objectives:

#### **Orientation to Campus Facilities and Resources:**

Introducing students to the university's facilities, including libraries, laboratories and recreational areas.

**Academic Orientation:** Providing an overview of the academic programs, curricula and examination systems.

**Social Integration:** Encouraging students to interact with their peers, seniors, and faculty members to build a supportive network.

**Introduction to Extracurricular Activities:** Highlighting various clubs, societies, sports facilities at JUIT and historical places near the campus like IAS and Tara Devi Mata temple.

**Personal Development:** Conducting sessions on time management, stress management and effective study techniques.

The students had the privilege of listening to distinguished speakers, including Honorable VC, Registrar, Dear (A & R), All HODs, Head T & P Brig. Sanjay Dawar (Retd.), TIDEC incharge Dr. Ashish, Dr. Shruti Jain, Dr. Shalni Dhadwal (Psychologist), Advocate Sanjeet Mishra, Mr. Gaurav Bedi and others who inspired and motivated with their insights on Innovation, Design and Entrepreneurship. These sessions were designed to ignite curiosity, foster creativity and equip students with the tools to excel.



## 4<sup>TH</sup> ANNIVERSARY OF NATIONAL EDUCATION POLICY 2020

In order to celebrate **4th anniversary of National Education Policy 2020** (29<sup>th</sup> July 2020), the NEP cell had organized a General Awareness Session for the **1st Year Fresher's batch (2024 admitted)** at JUIT on **July 31, 2024**. The primary focus of these small awareness sessions in the classes was to familiarize the freshers with the New Education Policy (NEP) 2020, which is set to transform the educational landscape in India. The initiative was designed to help students understand the objectives, structure, and implications of NEP 2020 on their academic journey and beyond. The team members visited the classrooms and students were provided with a comprehensive overview of NEP 2020, its key features, and how it would affect the educational framework at JUIT. They were also made aware and

familiarized with the academic flexibility offered under NEP 2020, including multidisciplinary learning, choice-based credit systems, holistic development and Academic Bank of Credits. Special emphasis was given to the importance of holistic development, including mental and physical health, ethical values, and skill development of the stakeholders. The importance and role of technology in education as envisioned in NEP 2020, focusing on digital learning and e-resources was also highlighted. Students were also made aware of the mentorship and support systems available at JUIT that aligns with the goals of NEP 2020.



To enhance students' participation and make them aware of the various reforms of the higher education system, the UGC is has launched the "NEP Student Ambassador for Academic Reforms in Transforming Higher Education in India (SAARTHI)" at campuses of HEIs. In alignment with this initiative of UGC we actively involved our **NEP SAARTHI** members in these awareness sessions.

### Ph.D. Completed:

- **Neha (PMS-186908) completed her Ph.D in July 2024. The title of her thesis was:** Visible Light Driven Hetro-Junction Based Photo-Catalyst And Charge Transfer For Photo Catalytic Application.  
**Supervisors:** Dr. Sanjeev Kumar Tiwari
- **Disha Thakur (ECE-186004) completed her Ph.D in August 2024. The title of her thesis was:** Robustness And Performance Enhancement In Smart Antenna Systems Through Novel Beam Forming Techniques.  
**Supervisor:** Dr. Vikas Baghel, Dr. Salman Raju Telluri
- **Ashok Kumar Tripathi (CSE-186207) completed his Ph.D in August 2024. The title of his thesis was:** Missing Values Imputation And Futuristic Predication Using Deep Learning Technique.  
**Supervisors:** Prof. Pradeep Kumar Gupta, Dr. Hemraj Saini and Dr. Geetanjali
- **Sargeet Kaur (BT-186555) completed her Ph.D in August 2024. The title of her thesis was:** Role Of Single Nucleotide Polymorphisms In Autophagy Related Gene Becn1 In Genetic Predisposition To Hepatitis B Virus Infection.  
**Supervisor:** Dr. Jitendraa Vashistt and Dr. Harish Changotra



## MOU

MoU Jaypee University of Information Technology (JUIT), Wagnaghat, has established a Memorandum of Understanding (MoU) with the University of Castilla–La Mancha (UCLM), Spain on Aug 09, 2024. This partnership marks the beginning of a collaborative journey aimed at enriching educational and cultural experiences for both institutions. We are eager to explore opportunities in the following areas:

**Joint Research Projects and Publications:** Collaborating on research initiatives that result in impactful publications.

**Faculty and Student Exchanges:** Facilitating academic and research exchanges to foster global learning.

**Joint Academic Programs and Courses:** Developing innovative programs and courses that benefit students and faculty alike.

**Conferences, Seminars, and Workshops:** Organizing joint events to promote knowledge sharing and professional development.






**Academic Materials and Publications Exchange:** Sharing resources to enhance academic offerings.

This MoU lays a strong foundation for a productive and enduring partnership, advancing knowledge, innovation, and mutual growth in our academic communities.

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## NCC CADETS OUTSTANDING ACHIEVEMENTS

In the Annual Training Camp at Nauli University, Our cadets made us proud with their exceptional performances, as detailed below:

- Cadet Srishti:  Best Cadet
- Cadet Ashmi:  Company Senior and  Anchoring
- Cadet Bhumika:  Anchoring
- Cadet Anshika, Cadet Ananya, Cadet Sanya, and Cadet Srishti:  Tent Pitching

These accolades are a testament to their hard work, dedication, and exemplary spirit.

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## CARE IN A KIT: FIRST AID ESSENTIALS

Reflecting this spirit of innovation, the IEEE SIGHT Affinity Group of the IEEE JUIT Student Branch recently launched a noteworthy initiative titled "Care in a Kit: First Aid Essentials." This event aimed to enhance safety and preparedness across various settings. On August 21, 2024, the event began with an insightful introduction session hosted by Dr. Hemant Sood, Dr. Nancy Singla, Preetimay Patel and Prerna Roy. Dr. Hemant Sood shared

valuable knowledge on the importance of a well-designed first aid kit, setting the stage for the day's activities. Participants, including students and faculty, collaborated to innovate and create adaptable first aid kits tailored for different settings.

The event was led by Dr. Hemant Sood, a distinguished expert in medical safety and first aid. With a wealth of knowledge and experience in the field, Dr. Hemant Sood brought valuable insights to

the event, offering participants a deeper understanding of the critical elements involved in designing an effective first aid kit.



## SESSION ON ECOSYSTEM FOR INNOVATION AND START-UP GROWTH

A workshop on the Ecosystem for Innovation and Start-Up Growth, was organized by the Institution Innovation Council (IIC) in collaboration with the Technology Incubation and Entrepreneurship Development Cell (TIEDC) on July 23, 2024. Keynote speaker Mr. Gaurav P, a renowned expert in entrepreneurship, delivered an insightful presentation covering



essential elements for building successful start-ups. His talk included assembling diverse teams,

employing lean startup methodologies, securing funding and navigating common entrepreneurial challenges. Mr. Gaurav P's session provided valuable strategies and real-world case studies. The workshop was well-received, offering students and staff actionable knowledge and inspiration to drive innovation and entrepreneurial success.

## ONE-WEEK WORKSHOP ON “FUNDAMENTALS OF DIFFERENTIAL EQUATIONS WITH APPLICATIONS TO REAL WORLD PROBLEMS”

The Department of Mathematics hosted a one-week workshop on "Fundamentals of Differential Equations with Applications to Real-World Problems" from July 8-13, 2024. The goal of the workshop was to give participants a solid grounding in the core principles and methods of differential equations, while showcasing their application in modelling and solving real-world problems in diverse fields. The

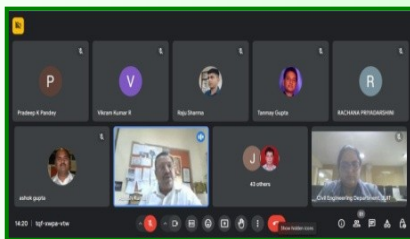


distinguished resource persons for this workshop included Prof. Syed Abbas from the School of Mathematical and Statistical

Sciences, IIT Mandi; Dr. D. N. Pandey from the Department of Mathematics, IIT Roorkee; Dr. Bidhan Chandra Sardar from the Department of Mathematics, IIT Ropar; and Dr. Tanmay Sarkar from the Department of Mathematics, IIT Jammu. The session received an overwhelming response, with 47 outstation participants and 6 research scholars from the organizing department in attendance.

## ONE WEEK ONLINE WORKSHOP ON “DISASTER RISK ASSESMENT”

A One Week Online Workshop on “Disaster Risk Assessment,” was organized by the Centre for Structural Engineering and Disaster Management, Civil Engineering from July 22–26, 2024. The workshop eminent speakers from renowned institutes who discussed various aspects of calculating hazard and risk of different types of hazards. The primary objective of the workshop was to teach the students, academics, and industry professionals, to conduct basic calculations of probability of occurrence of a hazard such as



earthquakes, floods, landslide, etc., and further calculating the risk on

infrastructure for each hazard. *The workshop was organized to fulfill the capacity building target of the United Nation's Sustainable Development Goal number 11.* Each day of the workshop covered a different type of hazard and covered a wide range of topics. Since the need for conducting such workshops is absolutely necessary for Disaster Resilient Infrastructure, the participants appreciated the workshop to quite an extent. The total number of registered participants were 105 out of which 88 were external participants.

## WORKSHOP ON AWARENESS ON ORGAN DONATION

State Organ and Tissue Transplant Organisation (SOTTO) HP, and Rotary Club Shimla Hill Queens organized “Workshop on Awareness of Organ Donation” by Prof. Puneet Mahajan, Department of Surgery, Indira Gandhi Medical College, Shimla (IGMC) Shimla in collaboration with DRISHTI, SIGHT IEEE JUIT SB, SIGHT IEEE Delhi Section and Environment, Ecology and Health Club, JYC on August 28, 2024 at 3:00 PM in Auditorium. Prof. Mahajan is the Nodal Officer of SOTTO, Himachal Pradesh. He explained various aspects of Organ donation very beautifully and in simple words. Organ donation is not just an act of generosity; it's a legacy that lives on, saving and



improving countless lives. By choosing to donate, we have the opportunity to make a lasting impact and be a part of something truly extraordinary. Organ donation is a critical issue that has the potential to save countless lives, and it is vital to raise awareness about its importance, particularly among young students. Educating them on the significance of organ

donation from a brain-dead individual can make a profound impact on our society. After this program students was inspired to consider the life-saving act of organ donation.

Organizers were thankful to Ms. Mala Singh (President), Ms. Ruchira Tangri (Assitant Governor Zone-1), Ms. Aruna Sharma (Vice President), Ms. Taruna Kaushal (Club Sectrary), Ms. Geeta Kapoor (Public Image Chair), Ms. Manjusha Pathania (Director), Ms. Sunita Jain (Member), Ms. Gurpreet Sondh (Executive Secretary) from RC Shimla Hill Queens and Mr. Naresh from SOTTO who joined the event.

## SESSION: “INCUBATION OPPORTUNITIES AND STARTUPS”

In order to sensitize the students about Incubation - Opportunities and startups two sessions were conducted in the Auditorium of JUIT Wagnaghat on July 23-24, 2024 for newly joined 1<sup>st</sup> semester students of B. Tech. The first session was taken by Prof. Ashish Kumar – Nodal Officer, Incubation Centre. In this session a total of around 300 students attended the talk. The students were familiarized about the TIEDC and about the scheme in the name of Chief Minister’s Startup Scheme under which TIEDC functions to support the startup activities. The main aim of TIEDC is to foster innovation and entrepreneurial skills among the youth. The second session was taken by Dr. Shruti Jain - Associate Dean



(Innovation) and Professor in the Department of ECE. Initially, she provided a brief history of IEEE, its global impact, and its mission. She explained the organizational structure, including global headquarters, regional sections, local chapters, and student branches. She described various technical societies (e.g., IEEE Communications Society, IEEE Power & Energy Society) and their roles. She highlighted membership

benefits like Professional Development, Networking Opportunities, Skill Development, Career Guidance and Publications and Resources. She informed the students about the “Research, Innovation, Development & Entrepreneurship (RIDE)”, a vertical of Jaypee education system which supports the innovative ideas and projects and provides the funds for the same.



## INDUSTRIAL VISIT: CS SOFT SOLUTIONS

An industrial visit to CS Soft Solutions in Mohali, Chandigarh, was organized by the CSE & IT department on August 23, 2024. 101 students along with 4 staff members embarked on a journey that promised to enhance their understanding of various technological domains, while also offering them the chance to interact with seasoned professionals who



have made significant contributions to the field. CS Soft Solutions, a prominent name in the IT sector, is

recognized for its expertise across multiple domains including software development, digital marketing, and mobile application development. The visit was meticulously planned to ensure that the students gained maximum insight into the operations and culture of a leading IT solutions provider.

## VISIT: CENTRE FOR SPACE LEARNING AND COMMUNICATION (CSLC)

A group of 10 undergraduate students from JUIT had the privilege of visiting the Centre for Space Learning and Communication (CSLC) in Shoghi, Shimla. The highlight of the day was the seminar on “A Deep Dive into ISRO's Journey” conducted by Dr. Tyagi, a distinguished scientist and the chief guest of the event. Dr. Tyagi's session was a comprehensive overview of the Indian Space Research Organization (ISRO), tracing its journey from its inception to its current status as a global space power.

Dr. Tyagi began by narrating the humble beginnings of ISRO in the 1960s, initiated under the visionary leadership of Dr. Vikram Sarabhai, often referred to as the father of the Indian space program. He spoke



about the challenges faced by ISRO during its early days, including limited resources and technological constraints. Dr. Tyagi highlighted the major milestones achieved by ISRO over the years, including the development of the Polar Satellite Launch Vehicle (PSLV), which has become one of the most reliable launch vehicles in the world, and the success of the Chandrayaan and Mangalyaan missions, which put India on the global map as a space-faring nation.

The event took an intriguing turn when Dr. Tyagi spoke about the presence of science in Sanatan Dharma and ancient Indian Shastras. He cited examples of concepts like the Pythagorean theorem, which was known to ancient Indian mathematicians like Baudhayana long before it was attributed to Pythagoras. He also discussed the advanced understanding of astronomy in ancient India, as evidenced by texts like the Surya Siddhanta, which accurately describes the motion of celestial bodies.

Students Explored Hands-On Science Activities in CSLC:

The visit to CSLC Shoghi was an enriching experience that left a lasting impression on all.

## ATC MEET OF MEI

The Department of ECE has an MoU with Mitsubishi Electric India (MEI) Pvt. Ltd. Company, Gurugram since April 2022. Under this MoU, MEI has provided JUIT with FA Learning Setups and Robotic Arm Setup. Recently, MEI signed a Supplementary MoU-II with JUIT on 20-08-2024 under

which MEI will provide JUIT with Single-Phase and 3-Phase Motor



Setup along with its simulation kit. Dr. Pardeep Garg, the Coordinator of FA Lab represented JUIT for this MoU Exchange Programme hosted by MEI at Pune from August 20-21, 2024. Also, MEI officially announced JUIT as their 10<sup>th</sup> Authorized Training Center (ATC) partner.



## SMART LIVING: HARNESSING SENSOR FUSION FOR HOME AUTOMATION

A two-day workshop on 'Smart Living: Harnessing Sensor Fusion for Home Automation' was organised by IEEE JUIT SB in collaboration with IEEE Region 10 Educational Activities Committee and IEEE Delhi Section on August 22-23, 2024. The workshop aimed to give participants an in-depth understanding of sensor fusion technology and its applications in creating smart, automated home environments that helps in startups or entrepreneurial ventures. The event covered a wide range of topics, from the basics of sensor technology to advanced integration techniques for building efficient home automation systems.



Step-by-step guidance on integrating sensors with microcontrollers to build a basic home automation system was provided. Detailed analysis of successful smart home project that

have utilized sensor fusion technology was a part of the workshop. The participants were engaged in collaborative tasks to design innovative sensor-based solutions.

## TALK: "INNOVATION & ENTREPRENEURSHIP"

An outreach activity was conducted at Gurukul International Senior Secondary School Solan, HP on July 31, 2024. The main aim of the outreach was:

- To sensitize the students about innovation and startup activities
- To foster innovation and entrepreneurial spirit at the school level.
- To familiarize the students with different Govt schemes and

incentives related to startups. There were around 90 students from class 11 to 12 who participated in the session. The session was conducted by Prof. Ashish Kumar. The students were familiarized about the startup opportunities, about the different initiatives taken by state government and central Governments and also what are various steps needed for the start-ups. They were also told how

they could enroll in the startup scheme. The students of the school were enthused after hearing about the opportunities in startups.



## ENKINDLE CLUB: INNOVATION WITH ROBOTIC ARM WORKSHOP

The Enkindle Club of the Department of CSE/IT organized a two-day workshop titled "Innovation in Motion: Robotic Arm Technology" from August 2-3, 2024. The inaugural session, held on 2nd August at 10:45 AM in the auditorium, saw enthusiastic participation from first-year students. The event was graced by Mr. Aditya Sharma and Mr. Kunal

Sharma, the Founder & CEO and CTO of Vignan Learning Solutions, who delivered an insightful presentation on the basics of robotics and robotic arm technology. The hands-on sessions for selected students were highly appreciated, marking the start of a series of similar activities planned for the semester. The workshop successfully ignited students'

interest in IoT, Robotics, and Machine Learning.



## WORKSHOP: ADVANCED EXCEL

Institution's Innovation Council (IIC) in collaboration with TIEDC, and IEEE JUIT SB organized a three-day hands-on workshop on Advanced Excel from July 15-17, 2024 in CL9, Dr. Vikas Baghel, Department of ECE was the resource person of the workshop. In total 45 faculty/staff members of different departments gained the knowledge. The aim of this workshop was to empower participants with advanced Excel

skills that are practical, efficient and applicable across various professional domains, enhancing their ability to handle complex data tasks and improve decision-making processes. Advanced Excel workshop typically includes equipping participants with more specialized skills and knowledge beyond the basics. This workshop provided significant value by equipping individuals and organizations with the skills needed

to leverage Excel as a powerful tool for data analysis, decision-making, and operational efficiency in today's data-driven world.



## TECHTREK MEME MAKING COMPETITION

The Women in Engineering (WIE) affinity group, IEEE Student Branch at Jaypee University of Information Technology (JUIT) (IEEE WIE AG JUIT) in collaboration with Membership Development Committee (MDC), IEEE Delhi Section organized an engaging event titled "TechTrek Meme Making Competition" August 2, 2024. This unique event provided students an opportunity to showcase their creativity and

humour through the creation of technology-related memes. The event aimed to foster a sense of community, encourage creative expression and promote interest in technology and engineering among students. The theme for the meme-making competition was "TechTrek," focusing on technology, engineering and student life. Participants were encouraged to create memes that were both humorous and insightful,

reflecting their experiences and perspectives on technology and engineering.



## RAKHI

The Rotaract Club of Wagnaghat, in collaboration with the Rotaract Clubs of HPNLU, Shimla Midtown, and UCBS, organized a truly heartwarming Rakhi celebration titled "Rakhi" on August 19, 2024 at the residence of the Honb. Governor of Himachal Pradesh, Sh. Shiv Pratap Shukla. The Governor welcomed the students with open arms, engaging warmly with each of them and graciously participated in the Rakhi ceremony. The opportunity to share this cherished tradition with such a respected figure made the experience



profoundly meaningful and memorable for all the Rotaractors present. The celebrations continued at ARTRAC Shimla, the Army Training Command, where students of JUIT (Rtr. Alisha Siddiqui, Rtr. Roodransh Mehta, Rtr. Aamyia

Chauhan, Rtr. Sanya Jain, Rtr. Soumya Sharma, Rtr. Aayush and Rtr. Aaditya Singh Duhoon) had the immense honor of tying rakhis to the soldiers stationed there. These brave soldiers, who selflessly protect our nation, were deeply touched by the gesture.



## INTERNATIONAL LEADERSHIP SUMMIT (ILS'24)

IEEE Women in Engineering (WIE) International Leadership Summit (ILS '24) was organized by IEEE WIE AG Delhi Section from August 10–11, 2024. The summit's theme, "Resilience and Innovation: Navigating a Sustainable Future" encapsulates the essence of adaptability and forward-thinking in the face of challenges. It integrates the essence of overcoming challenges with adaptability and fostering creativity to build a lasting and environmentally conscious tomorrow. The summit primarily focused on tracks such as Sustainability and Engineering for Social Impact, Women in Creative Art, Empowering Women Leaders in a Changing World, and more. **Mr. Deepak Mathur, 2024 IEEE Vice President -MGA, R10 was the Chief Guest of the event, Prof. Celia Shahnaz, IEEE WIE Global Committee Chair was Guest of eminence and Dr. Tanu Jain (Ex-Civil Servant, 2015 Batch & Founder Tathastu ICS) was Guest of Honor.** There was a



special virtual presentation of **Prof Takako R10 Director Global and Dr Agnes Irwanti R10 WIE Chair on Diversity & Leadership in STEM.** Prof. A.Q. Ansari, Chair IEEE Delhi Section, Prof. Subrata Mukhopadhyay, Sr PE, Adjunct Professor, Netaji Subhas University of Technology (NSUT), **Prof. Prerna Gaur, Chair Elect, IEEE India Council 2025** and Prof. Rachana Garg, Past Chair, IEEE Delhi Section were the Patrons of the event. The summit emphasized



the importance of diversity, inclusion and leadership in driving technological progress and left participants with valuable connections and insights for the future.

## TREASURE HUNT

The Omega Leo Club Waknaghat organized an exciting and adventurous Treasure Hunt event on August 25, 2024. The event, which began at 2:00 PM, was designed to foster teamwork, problem solving skills and a spirit of fun among participants. The starting point for the hunt was the Basketball Court at Waknaghat, where over 100



students gathered to test their skills and have fun.



## WINGS OF INNOVATIONS (DRONE WORKSHOP)

IEEE JUIT-SB organised a two-day Drone Workshop on August 5-6, 2024 that offered participants hands-on experience in building and flying drones. The event attracted a diverse group of students with sessions designed to provide both theoretical knowledge and practical skills.



## ANTY-RAGGING DAY

The Anti-Ragging Day was organised in collaboration with the JYC on August 12, 2024. This event was part of a broader initiative to educate students about the harmful effects of ragging and to underscore the university's unwavering commitment to a ragging-free environment. This session was a cornerstone of JUIT's observance of Anti-Ragging Week, which ran from August 12-18, 2024.



The session began with a discussion on the psychological and social repercussions of ragging on victims, emphasising the importance of cultivating a campus environment where every student feels safe and respected. JYC highlighted JUIT's zero-tolerance policy toward ragging, stressing that such behaviour has no place in the university's culture. They emphasised the university's existing policies and support systems designed to prevent ragging and provide help to any affected students.

The event was organized by department of CE which commenced at 4 PM on August 12, 2024, with Dr. Tanmay Gupta serving as the moderator. Dr. Gupta began by emphasizing the significance of the day and its relevance in the academic community. He spoke on the perils

of ragging, citing real-life incidents that underscore the need for continued vigilance, and proactive measures. Dr. Gupta also highlighted the importance of celebrating such days, not merely as a formality but as a critical step toward fostering a culture of respect, safety, and inclusivity on campus.

The event concluded with a lively Q&A session, where students posed questions about the university's anti-ragging measures and shared their thoughts on the issues discussed. The interactive session provided an opportunity for students to clarify their doubts and engage with faculty members on how they could contribute to the cause.

The Department of ECE also organized the Anti-Ragging Day on 12-08-2024 for the first year 2024-25 batch admitted students of UG and PG programmes. During the event, students made aware the students about the anti-ragging policy of JUIT. They told them about the various platforms (Anti-Ragging Cell, Anti-Ragging Squad, Resident Tutors, Warden etc.) formed at JUIT to handle the issue of ragging, if any such issue happens. Students can very easily approach to any member of Anti-Ragging committees formed at JUIT. Also, the coordinators played a relevant video related to anti-ragging to showcase the importance of this subject to the fresh admitted students.

The **Gender Champions Club (GCC)** jointly organized with the **Internal Complaint Committee (ICC)** and **Synapse Club (BT & BI)**, a poster designing competition on topic "Anti-Ragging

**Awareness"** from August 10-17, 2024. Committee received ~20 entries via online and physical mode. Evaluation was carried out as per the conditions mentioned in the flyer. The results were declared on 22<sup>nd</sup> August, 2024 and shared with all participants via mail. In the category of Hand made posters Arpita Singh (231011012) got the first rank, Shashank Sood (241030150) second and Aarushi Sood (241033122) and Tanvi Utreja (2211030037) got the third rank. In the Digital Category Navya (241032041) got the first rank, Rajluxmi Singh (221031059) second and Vansh Thakur (241034014) got the third rank.



The posters of the winners under handmade category



**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY**  
WARRANGHAT, SOLAPUR, M.P.

GENDER CHAMPIONS CLUB, JUIT

INTERNAL COMPLAINT COMMITTEE

SYNAPSE CLUB BT & BI

### Poster Designing Contest

Theme:- Anti-ragging awareness

**Terms and Condition:-**

1. The poster can be handmade or digitally made.
2. Participation Free
3. Bachelors, Post Grad, Degree pursuing and branch with computer should be restricted
4. Date of submission: 10th, 12th August 2024.
5. Link: <https://www.instagram.com/genderchampionsclubjuit>

Declaration of Result:- 18th August, 2024

Student Coordinator  
Tripti Shandani  
BT Tech, Warranghat

Faculty Coordinators  
Dr. Nancy Singla  
Prof. Hemant Sood  
Prof. Anurag Kaur

The posters of the winners under digital category

## INDEPENDENCE DAY'2024

India's 78th Independence Day was celebrated with great enthusiasm and patriotic fervour. The event was marked by various activities and ceremonies that showcased the spirit of independence and unity among the students and staff. The celebrations began with the flag hoisting ceremony, where the Vice-Chancellor of JUIT, Prof. R.K. Sharma, unfurled the national flag. This event was graced by the presence of the Registrar, Brig. (Retd.) R. Sharma, Assistant Registrar, Mr. Sanjay Kumar Verma, and Havaladar Nirmal Singh. The flag hoisting was followed by the singing of the national anthem, instilling a sense of

pride and patriotism among everyone present. One of the key highlights of the event was the rank ceremony for the 1 HP Boys Battalion NCC, Solan. Havaladar Nirmal Singh, the DI (Drill Instructor), conducted the ceremony, recognizing the cadets' commitment and dedication to the

nation. The drills were carried out under the guidance of ATO Lt. Pragya Gupta, with the support of Subedar Major Harbhej Singh and PI Subedar Jailal Thakur. The disciplined and synchronised drills performed by the NCC cadets were a testament to their rigorous training and the values they uphold.

Following the formal ceremonies, the cultural segment of the program began with performances by various student clubs. The Theatre and Music Club, JYC presented a powerful Nukkad Natak titled "Kartavya," which focused on the heroic actions of Group Captain Abhinandan Varthaman.



## SWACHHTA PAKHWADA

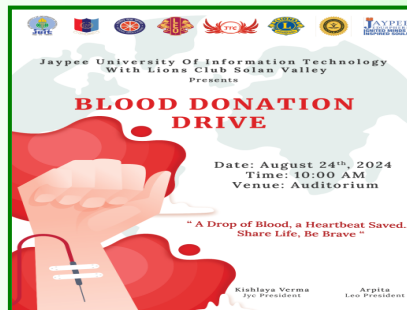
The Environment, Ecology and Health Club, a unit of JUIT Youth club (JYC) organized a cleanliness drive "Swachhta Pakhwada" on August 27, 2024. More than 50 students participated in this event.

The event was coordinated by faculty members, Dr. Poonam Sharma, Dr. Rishi Rana and student coordinator Mr. Devansh Som and Mr. Anshuman Rawat.



## BLOOD DONATION DRIVE

On August 24, 2024, the GCC and Omega Leo Club of Wagnaghat, in collaboration with the Lions Valley Club of Solan, organized a monumental Blood Donation Drive supported by the National Cadet Corps (NCC), JYC Health Club and NSS Club. The event embodied the spirit of community service, compassion, and social responsibility, setting a new benchmark for future initiatives. The event was graced by the presence of Mr. Vineet Rai Sood, Chairman, Lions Club Solan,



Co-Chairman Mr Sumit Dang and the President Mr Vijay Verma. Their speeches underscored the significance of blood donation and highlighted the collective effort required to make such initiatives



successful. A remarkable total of 75 units of blood was donated by faculty, staff and students of JUIT and Lions Club members.

## DIKSHA

JUIT came alive with color and music on the evening of August 1<sup>st</sup>, 2024 as it hosted the eagerly anticipated "DIKSHA" Freshers' Night. This year, the theme of the event was 90's Retro, which transported everyone back to an era of iconic music, fashion, and culture. The highlight of the evening was undoubtedly the spectacular performances that graced the stage, as students showcased their incredible talents in dance and music. One of the most



eagerly awaited moments of the evening was the announcement of Mr. Fresher and Miss Fresher. The titles were awarded to Mr. Fresher Mohammad Abbas Rizwi and Miss

Fresher Ashika Gulati. In addition to the entertainment, the event also marked the official handover of responsibilities to the new tenure of the Jaypee Youth Club, with Kishlaya Verma assuming the role of JYC President, Aastha Bansal as JYC Secretary, and Satvik Pandey as JYC Treasurer. In a special segment dedicated to academic excellence, meritorious students who had achieved a CGPA of 9 and above were recognized for their outstanding performance.

## RACHNA

The Rotaract Club of Wagnaghat recently hosted its flagship club services event, RACHNA, with a focus on revitalizing membership and fostering a deeper connection with the college community. Aimed primarily at first-year students, the event was designed to introduce newcomers to the dynamic spirit of Rotaract while highlighting the fun, camaraderie, and opportunities for personal growth that the club offers. The two-day event kicked off with a lively jamming night that brought together Rotaractors and first-year students for an evening of music, laughter, and community building.



The relaxed atmosphere allowed new students to connect with existing members, creating a welcoming environment. The night also featured engaging activities, including the popular "Two to Tango" game, which paired

participants to complete fun tasks, fostering teamwork and collaboration.

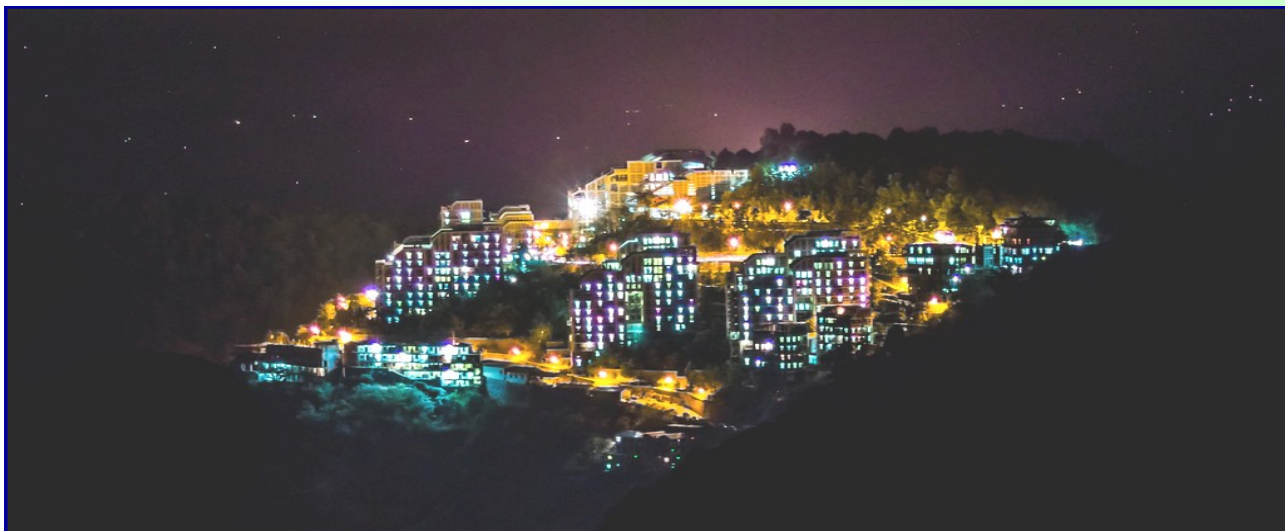
Day two of RACHNA focused on showcasing talent and creativity, with a talent hunt that provided a platform for students to demonstrate their skills. This event underscored the Rotaract Club's commitment to personal development, offering a space for members to express themselves and contribute meaningfully. The diverse talents on display impressed the audience and highlighted the club's role in nurturing individual growth.

## JAMMING NIGHT

On August 22, 2024, the Omega Leo Club of Wagnaghat transformed the open cafeteria into a celestial stage for an unforgettable evening of music and camaraderie. As dusk settled, the campus buzzed with anticipation, setting the perfect mood for the jamming night that

would not only kickstart the Treasure Hunt events but also leave an indelible mark on the hearts of all who attended. From 8:00 PM to 9:30 PM, the cafeteria echoed with a symphony of sounds, as students from every year brought the house down with performances that

spanned genres and generations. The classics from the 80s took the audience on a nostalgic journey, while modern hits had everyone on their feet, dancing and singing along in unison.



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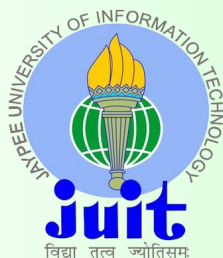
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