A NEWSLETTER OF JUIT

Hilly Ramblings

https://www.facebook.com/JUITWSolan

https://www.linkedin.com/school/496220/admin/

https://www.instagram.com/juit_waknaghat/

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

https://www.twitter.com/JuitWaknaghat

IEEE
JUIT STUDENT BRANCH

acm JUIT
Communitate Valemus

siam JUIT
Society for Industrial and Applied Mathematics

ABOUT JUIT

- JUIT was conceived by a joint vision of the Govt of Himachal Pradesh and the Founder Chairman of Jaypee Group Shri Jai Prakash Gaur ji in 2000. The university was established by Act No 14 of 2002 vide Extraordinary Gazette Notification of the Govt of Himachal Pradesh dated May 23, 2002. The University Grants Commission accorded its approval under Section 2(f) of the UGC Act vide their Letter No. F 9-10/2002(CPP-1) dated 09 Dec 2002. JUIT is also a member of the Association of Indian Universities (AIU).
- The university has been accredited by NAAC, NBA, NIRF.
- The university campus is spread over 25 acres of lush green picturesque slopes of Waknaghat hills in the Solan District of Himachal Pradesh. The smart campus is pollution free and enjoys lovely weather throughout the year. The maximum summer temperatures touch 32 to 35 degrees centigrade for one month in a year. The world class infrastructure has been beautifully designed by M/S Arcop Associates Pvt. Ltd. an eminent Montreal based Canadian architecture firm.

1. PROGRAMS OFFERED – ACADEMIC YEAR 2023 - 24

B.Tech. Programs
- Bioinformatics (BI)
- Biotechnology (BT)
- Civil Engineering (CE)
- Civil Engineering with Computer Science (CECS)
- Computer Science & Engineering (CSE)
- CSE with specialization in Artificial Intelligence & Machine Learning (CSE-AI&ML)
- CSE with specialization in Artificial Intelligence & Data Science (CSE-AI&DS)
- CSE with specialization in Cyber Security (CSE-CS)
- Electronics & Communication Engineering (ECE)
- Electronics and Computer Engineering (ECS)
- Information Technology (IT)
- IT with specialization in Artificial Intelligence & Machine Learning (IT-AI&ML)
- IT with specialization in Artificial Intelligence & Data Science (IT-AI&DS)

M.Tech. Programs
- Biotechnology
- Civil Engineering
  - specialization in Construction Management
  - specialization in Environmental Engineering
  - specialization in Structural Engineering
- Computer Science & Engineering
  - specialization in Data Science
  - specialization in Information Security
- Electronics & Communication Engineering
  - specialization in Internet of Things

B.Tech. Programs (Direct Admission to 2nd Year through Lateral Entry)
- Bioinformatics (BI)
- Biotechnology (BT)
- Civil Engineering (CE)
- Civil Engineering with Computer Science (CECS)
- Computer Science & Engineering (CSE)
- Electronics & Communication Engineering (ECE)
- Electronics and Computer Engineering (ECS)
- Information Technology (IT)

B.Sc. Program
- B.Sc.(Hons) in Mathematics and Computing

BBA Program
- Bachelor of Business Administration (BBA)

M.Sc. Programs
- Biotechnology (BT)
- Microbiology (MB)
- Physics (PHY)

Ph.D. Programs
- Bioinformatics
- Biotechnology
- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Humanities & Social Sciences
- Mathematics
- Physics & Materials Science

2. SEMINAR ON EXPLORING EMERGING SEMICONDUCTOR HORIZONS BY AETHER SEMICONDUCTORS

Department of Electronics & Communication Engineering and Computer Science Engineering & Information Technology jointly organized a seminar titled "Exploring Emerging Semiconductor Horizons" in association with Aether Semiconductors Mohali. The seminar was hosted in CR3, ground floor, Vivekanand Bhawan at JUIT. The primary objective of the seminar was to raise awareness among the students about career opportunities in the semiconductor field which are predicted to rise at a faster pace in line with GoI semiconductor policy. By sharing their industry insights, experts from 'Aether Semiconductors equipped the students with the knowledge necessary to fit in and excel in this field of technology.

An exhibition of technical expertise was organized to showcase the technical capabilities of Aether Semiconductors & to make the students aware of the seminar details and its tentative agenda. Visually appealing flex-boards highlighted the diverse aspects of the semiconductor business including Supply Chain Management, Product Management, RF Engineering and more.
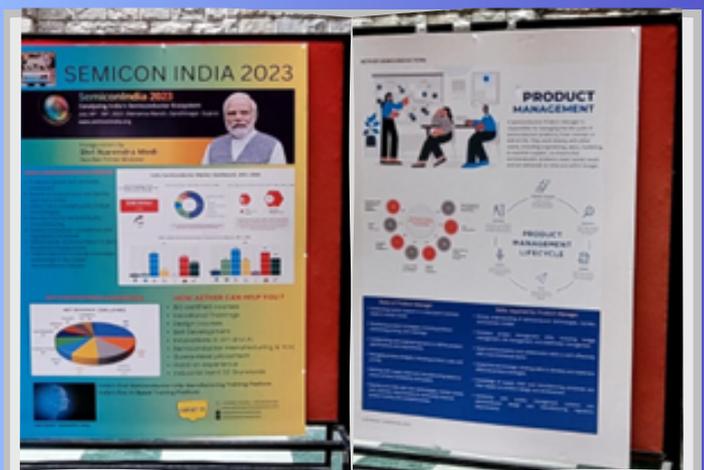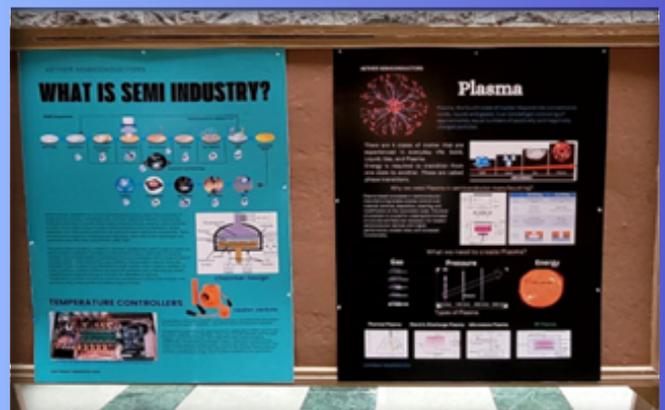
# 3. TWO DAYS WORKSHOP ON VLSI (CADENCE DESIGN TOOLS)

Electronics and Communication Engineering Department

Jaypee University of Information Technology

organises

Two day VLSI workshop on Cadence Virtuoso EDA tools

Day1: Entire Full Custom IC Design flow using CMOS Inverter

Day2: Entire Semi Custom IC Design will be demonstrated using Counter as an example

Speaker

Mr. Anish Kumar Sharma

Sr. Field Application Engineer, Entuple Technologies Pvt. Ltd. Bangalore

Venue: Mitsubishi FactoryAutomation Lab (ECL6), ECE Department JUIT

Date: 5th -6thJune, 2023
Time: 10:00 - 17:00 IST
Medium: In Person; GoogleMeet
https://meet.google.com/qss-gjwq-pni

Department of ECE, organized a "Two days VLSI (Cadence Virtuouso) workshop on June 5-6, 2023" in hybrid mode in collaboration with Entuple Technology Pvt. Ltd. In line with the Government of India, VLSI initiative, JUIT has gone ahead in providing the faculty and students with state of art VLSI tools.

The various topics covered during the workshop are schematic capture, analog simulations, layout extraction, physical verification and post layout simulation and digital design using Cadence ASIC design tools following with RTL design, functional simulations, synthesis, and physical design.
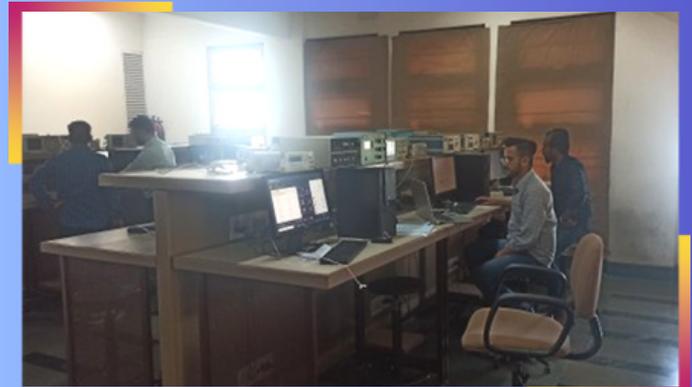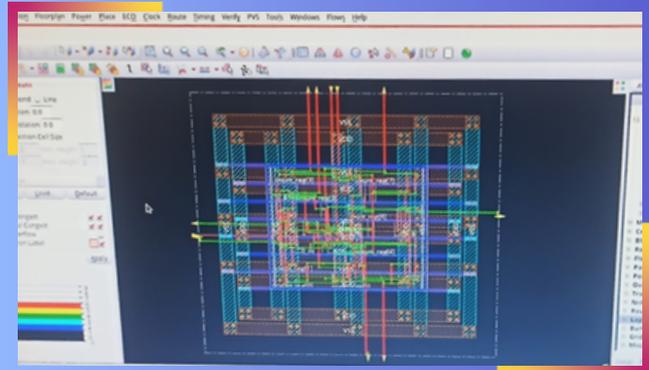
4. ONE WEEK 'MEGADRONE' WORKSHOP

One week 'Megadrone' workshop was organized by IEEE JUIT SB in collaboration with IEEE R10 Education Activities and IEEE Delhi section from August 24 -30, 2023.

'MEGADRONE' WORKSHOP

The JUIT Student Branch of IEEE proudly inaugurated the Megadrone Workshop, a comprehensive exploration into the world of drones. This workshop aimed to delve into the benefits, applications, types, and motions of drones.

The mega drone workshop kicked off on the first day with a inauguration ceremony. The event began with an inspiring keynote speech by Dr. Vikas Baghel, a renowned expert in the field of drone technology. The inaugural session set the tone for an exciting and informative workshop.

5. ONE WEEK 'ROBOTRIX' WORKSHOP

One week 'ROBOTRIX' workshop was organized by IEEE JUIT SB in collaboration with IEEE R10 Education Activities and IEEE Delhi section from August 17–23, 2023.

WORKSHOP ON ROBO-RACE & ROBO-WARS

The event's resource person was Dr. Vikas Baghel, Coordinator of e-Yantra, an MHRD-funded project started by IIT Mumbai. The Robotrix Workshop, spanning six enriching days, was a comprehensive program designed to introduce participants to the exciting world of robotics, and theoretical knowledge about IoT concepts and Arduino electronics to demonstrate basic principles behind their design and functioning, and to provide hands-on experience of working on an Arduino interface and build a strong foundation in robotics.

6. 2nd International Conference on Biotechnology and Bioinformatics (ICBAB-2023) Jaypee University of Information Technology

Department of Biotechnology and Bioinformatics organized '2nd International Conference on Biotechnology and Bioinformatics' (ICBAB-2023) from July 11-13, 2023. This conference was financially supported by CSIR-HRDG and SERB DEST, Government of India.

Hon'ble Vice-Chancellor Prof. (Dr.) Rajendra Kumar Sharma, Dean (A&R), Prof. (Dr.) Ashok Kumar Gupta, Head Biotechnology and Bioinformatics Prof. (Dr.) Sudhir Kumar, Registrar, Maj. Gen. Rakesh Bassi and Conveners Prof. (Dr.) Jata Shankar & Dr. Udaybanu had lit the ceremonial lamp and released the conference abstract book. More than 180 participants participated in this hybrid conference. Various experts/keynote speakers from national and international institutes delivered their invited lectures

Joint Convener, Dr. Abhishek Chaudhary coordinated the oral presentation, where Chinmaya Mahapatra-NIT-R, Ms. Chandrika Mittal-CURAJ, Mr. Pradeep Kumar N -IARI begged the 1st, 2nd, 3rd prize respectively. In poster category, Himanshu-JUIT and Babita Thakur-Chandigarh University received 3rd prize, Sanchita Singh-Lucknow University got 2nd prize and Ananya Singh-Allahabad University, received 1st prize.

7. TALKS & TRAINING PROGRAM

Dr. Sudhir Kumar delivered an expert lecture entitled 'Application of Genomics in Human Health' on 10 July, 2023 at two week training program on Drug Discovery & Development as a part of National Academic Immersion Program (NIAP) of Dr. Vishwanath Karad MIT World Peace University from 30th June to 14 July 2023.
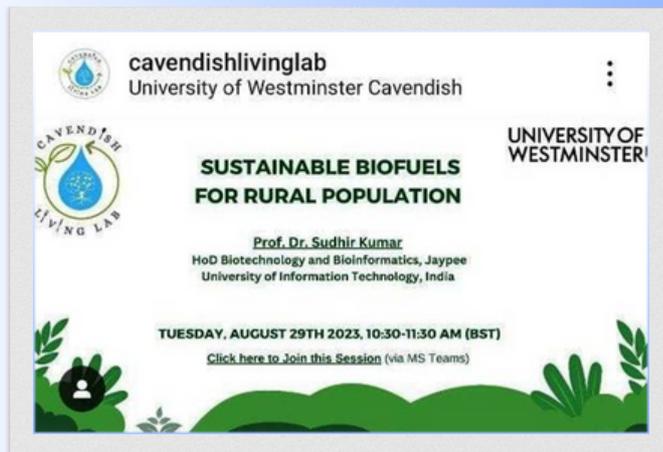
Invited talk by Prof. Sudhir Kumar for the Cavendish Living Lab (CLL) talk series at the University of Westminster London, UK, 29 August, 2023, Online Mode.

Keynote Talk on Biohydrometallurgy by Prof. Sudhir Kumar in a symposium of WITS University, Johannesburg, SA. Prof. Sudhir Kumar, HoD BT&BI delivered an online keynote talk in a symposium on "Bioprocessing: Unlocking Prospects for a Sustainable Future". This was convened by Prof. Sehliselo Ndlovu of Chemical and Metallurgical Engineering at WITS University, Johannesburg, SA. Prof. Kumar's talk was on Mining Industry future – Biohydrometallurgy. He highlighted the need of academia and industry connect in this field of research. The significant milestones of this area of research, gaps, and leads were discussed.

Training Program

Online 5-day capacity building training program on 'Integrative design approach and energy simulation to make the building ECBC compliant' was organized by Directorate of Energy, Shimla and State Energy Efficiency Agency on August 9-11, 2023 & August 17-18, 2023.

A total 4 faculty members namely Dr. Sugandha Singh, Dr. Saurabh, Dr. Niraj Singh Parihar and Mr. Akash Bharadwaj from CED, JUIT participated in the 5-day workshop. The workshop aimed to provide basic knowledge and hands-on training towards development of energy-efficient architecture of buildings in different climatic environments with focus on development of energy efficient infrastructure in hilly regions such as Himachal Pradesh. A comprehensive detailing was presented during the workshop about the parameters to be considered for integrated, passive and thermal comfort in such buildings in compliance with guidelines presented by Energy Conservation Building Code (ECBC) and Eco-Niwas Samhita (ENS). A hands on training was also provided by the experts for a application based exposure of e-Quest software for fulfillment of the foresaid purpose.

8. WORKSHOP ON CHEMISTRY INNOVATIONS

One day workshop on 'Chemistry Innovations' was organized by the Department of Biotechnology and Bioinformatics. More than 100 participants from various colleges and universities attended the workshop. Prof. Venkata Krishnan, IIT Mandi delivered a talk on Green Chemistry. This event was coordinated by Dr. Poonam Sharma along with organizing members Dr. Hemant Sood, Dr. Ashok Kumar Nadda and Dr. Gopal Singh Bisht under Scientific Social Responsibility Scheme in DST-SERB sponsored project. This workshop is also a training activity under MOU signed between Jaypee University of Information Technology Waknaghat and Rajiv Gandhi Govt. Degree College Chaura Maidan Shimla.

9. UNNAT BHARAT ABHYIAN

INDEPENDENCE DAY CELEBRATION AT WAKNA GRAM PANCHAYAT

On the auspicious occasion of India's Independence Day, the Unnat Bharat Abhiyan (UBA) team was invited to participate in a flag hoisting ceremony organized by Wakna gram panchayat. The event was a remarkable showcase of patriotism and community spirit, as the team actively engaged in various activities to celebrate the 77th year of India's independence.

VISIT TO WAKNA VILLAGE

On August 20, 2023, a group of students from JUIT participated in a visit to Wakna village as part of the UBA initiative. The purpose of the visit was to engage with the villagers, introduce them to the concept of UBA, understand their issues and concerns, and establish a connection for future collaboration and support.

FROM VISION TO VENTURE

"From Vision to Venture," aptly signifies the transformation of dreams into reality and this transformation is possible through right guidance at the right time. As the saying goes, "In the journey of life, guidance is the map that leads us through uncharted territories and helps us reach our desired destination." Therefore, in light of this, the CR team of TIEDC JUIT conducted a webinar featuring Mr. Dhruv Soni as the guest speaker on August 22, 2023, at 3 pm, Mr. Dhurv Soni is the founder of KD Ventures, which featured in Shark Tank India Season 1, Mr. Soni is an alumnus of IIT Mumbai and IIM Bangalore. As the guest speaker who graced the webinar with his presence and began by sharing his journey of life from the time, he entered school to the time he came out as a graduate from IIT Bombay to an MBA from IIM Bangalore, his journey was not only worth listening but also very informative.

The webinar included discussion on several engaging topics, with the highly anticipated discussion being his experience on Shark Tank India. Participants also gained valuable insights into entrepreneurship skills, bridging the gap between tech and non-tech fields, self-exploration, and the significance of sharing college experiences.

BREAKOUT: PATH TO INNOVATION

As the first event for first year students, Breakout: Path to Innovation, enabled them to learn about the diverse activities that TIEDC organizes. It also aimed to ignite curiosity, stimulate critical thinking, and promote effective teamwork, all the while enhancing participants' researching skills.

The event consisted of 5 rounds. The 1st round started in CR5 where all the participants were made aware of the rules of the event. Every team was provided with a riddle which consisted of clues regarding any business, technology or startup. The teams were given 5 chances to solve the riddle and the ones who solved the fastest moved on to the next round. The rounds continued till a certain number of teams had cleared the round or a pre-decided amount of time had passed. This continued for four more rounds and finally ended with the last round at the cell.

BIZ QUIZ 23

The central aim of the Biz Quiz, which is the flagship event of TIED cell was to instill inquisitiveness and heighten public consciousness regarding the ever-present realm of businesses. Through diverse and captivating rounds, the event sought to test the participants about a range of business aspects, spanning from corporate innovations to fun facts.

Spanning three days, the event comprised three distinct rounds, infusing excitement and knowledge acquisition. The inaugural day witnessed all teams engaging in the initial round, where individuals within each team tackled a 25-question multiple-choice quiz, encompassing a broad spectrum of business knowledge. After amalgamating the scores of both team members, the top 29 teams earned passage to the ensuing round.

11. FROM THE DESK OF IPR CELL

INNOVATION (PATENTS PUBLISHED)

S.No.	Patent Title	Inventors	Date of Published
1	Household Waste Heat Harvesting System for Energy Generation	Shruti Jain, Meenakshi Sood, Pramod Kumar	August 11, 2023
2	Real-Time Monitoring and Identification System for Diabetic Retinopathy with Remote Consultation Capability	Anmol Goyal, Vansh Bansal, Himanshu Jindal, Shruti Jain, Monika Bharti	July 21, 2023
3	Psychological Chatbot and Voice Bot system for The Treatment of Mental illnesses	Aman Shrama, Rajni Mohana, Sanskriti Priya, Shruti Shree	July 07, 2023
4	Landslide Prediction System using IOT and Machine Learning	Prof. Ashok Kumar Gupta, Prof. Vivek Kumar Sehgal, Tanmay Gupta, Arush Kaushal	July 07, 2023
5	Machine Learning-Based Method for classifying Alzheimer's Disease-Associated Genes	Rohit Shukla, Tiratha Raj Singh	July 07, 2023

12. Ph.D. COMPLETED

1. Niraj Singh Parihar (166607) completed his Ph.D. on July, 2023. His topic was: Stabilization Of Expansive Soil Using Leather Industry Waste Ash.
   Supervisor: Prof. Ashok Kumar Gupta, Dean (Academics & Research).

2. Sudheer Kumar Jala (186602) completed his Ph.D. on August, 2023. His topic was: Performance of high confined stone columns in pond ash fills: An Experimental and numerical study.
   Supervisor: Dr. Saurabh Rawat (Associate Professor) & Prof. Ashok Kumar Gupta, Dean (A&R).

3. Amit Kumar (186802) completed his Ph.D. on August, 2023. His topic was: An Empirical Study on Customer Complaint Behavior.
   Supervisor: Prof. Anupriya Kaur.

13. INDUCTION ORIENTATION PROGRAM - 2023 BATCH

As per the directives of UGC implemented through AICTE, the university conducted one week induction orientation program for first year batch w.e.f. July 25-31, 2023. The aim of this program was to enable students to settle down into university life after their school. Towards this end the structure of the program primarily focused on motivational talk, physical activities and campus awareness activities.

14. SWACHHTA PAKHWADA

The Environment, Ecology and Health Club, JUIT Youth Club (JYC) marked Swacchata Pakhwada from September 01-15, 2023. On the inaugural day, a dedicated team of 25 students and faculty members initiated a plastic waste removal campaign near the university market. This campaign aimed to raise awareness among shopkeepers and the public about the detrimental impact of plastic on the environment, as well as strategies for segregation and recycling. The campaign was expertly coordinated by Dr. Poonam Sharma and Dr. Ashok Kumar Nadda, both faculty members from the Department of Biotechnology and Bioinformatics at JUIT, alongside student coordinators Ms. Shruti Shree and Mr. Divyansh Goel. Faculty members shared insights on various techniques to minimise plastic waste and promote the recycling and reusing of plastic generated on a daily basis. Additionally, numerous other activities are planned to further promote cleanliness and underscore its significance in the upcoming days.

15. TOURNAMENTS

The Semester Sports Tournament, meticulously organised at Jaypee University of Information Technology, reached its pinnacle today as the highly anticipated finals unfolded, marking a victorious conclusion to an event brimming with sportsmanship, unity, and competitive passion. With team 'Dholakpur' securing the cricket championship, team 'JUIT Admin' emerging as the victors in volleyball from boys and team 'Birds of pray' from girls, team 'Weekday Players' claiming the football title, team 'Tapu Sena' was winning team from boys and Team 'Her-Icanes' was winning team from girls in basketball and team 'Ishita' from girls and team 'Avi' from boys won the badminton title. team 'XChrome' won the Table Tennis Title.

The tournament witnessed more than 400 enthusiastic students competing in various sports, fostering a strong sense of camaraderie and sportsmanship among participants. This tournament not only showcased outstanding athletic prowess but also underscored the nurturing of vital life skills and camaraderie among participants. Particularly noteworthy is the profound impact on the freshers, for whom this tournament marked their inaugural sports endeavour within the university. Witnessing their integration into the JUIT's vibrant sports culture through the guidance of seasoned players and mentors, fostering a sense of belonging and camaraderie. The overwhelming success of the event stands as a testament to the dedication of the Sports Club JYC, volunteers, coaches, participants, and sponsors. As we bask in the glory of this achievement, we eagerly anticipate the forthcoming chapters of sporting excellence, personal growth, and mutual bonding within the glorious halls of JUIT.

16. NEW MEMBERS OF JUIT FAMILY

Dr. Ranjith Kallyani
Assistant Professor (Grade II)
Department of HSS

Dr. Atul Kumar Singh
Assistant Professor (Grade II)
Department of HSS

Dr. Bilal Khan
Assistant Professor (Grade II)
Department of HSS

Dr. Tyson
Assistant Professor (Grade I)
Department of BT & BI

Dr. Haresh A. Raval
Assistant Professor (Grade II)
Department of PMS

Dr. Anita
Assistant Professor (Senior Grade)
Department of CSE/IT

Mr. Maneet Singh
Assistant Professor (Grade II)
Department of CSE/IT

Mrs Deepika Bhaik
Lab Engineer
Department of CSE/IT

Editorial Board - A Newsletter of JUIT

Jaypee University of Information Technology Waknaghat,
P.O. Waknaghat, Teh. Kandaghat, Distt. Solan
Himachal Pradesh – 173234 (INDIA)
Ph: +91 – 1792-257999