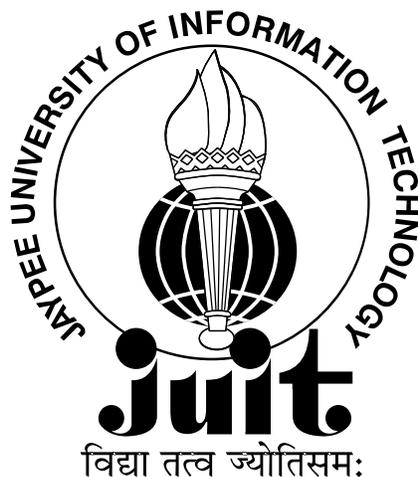


JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
WAKNAGHAT
Himachal Pradesh



ANNUAL REPORT
2024-2025

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1. UNIVERSITY ESTABLISHMENT

Name	:	Jaypee University of Information Technology Waknaghat Established by HP State Legislature vide Act No 14 of 2002 and approved by University Grants Commission vide its Notification No. F.9- 10/2002(CPP-I) dated 09 Dec 2002
Year of Establishment	:	2002
Status	:	State Private University with effect from 23 May 2002
Location	:	Waknaghat, P.O. Waknaghat Tehsil - Kandaghat, Distt - Solan (H.P.)
Pin	:	173234
District	:	Solan
State	:	Himachal Pradesh
Chancellor	:	Shri Shiv Pratap Shukla Hon'ble Governor of Himachal Pradesh
Pro-Chancellor	:	Shri Manoj Gaur Executive Chairman, Jaiprakash Associates Ltd
Vice Chancellor	:	Prof (Dr) Rajendra Kumar Sharma
Registrar & DoS	:	Brigadier Raj Kumar Sharma, SM (Retd)
<u>Tele/Website</u>		
Vice Chancellor	:	(O) 01792-239201 (R) 01792-239250
Registrar	:	(O) 01792-239203 (R) 01792-239272
EPBAX	:	01792-257999 (30 lines)
Website	:	www.juit.ac.in

2. INTRODUCTION

2.1 About Jaiprakash Sewa Sansthan (JSS)

The Jaypee Group of Companies has consistently displayed full awareness of its social responsibilities through the Jaiprakash Sewa Sansthan (JSS), a 'not for profit' trust registered under the Income Tax Act, 1961.

Four higher technical education campuses have been established by the JSS in the emerging areas of technology – the Jaypee University of Information Technology (JUIT) at Waknaghat, Himachal Pradesh (July 2002), the Jaypee Institute of Information Technology (JIIT), Noida (August 2001), the Jaypee University of Engineering & Technology (JUET) at Guna, Madhya Pradesh (July 2003) and Jaypee University, Anoopshahr (July 2014).

2.2 Salient Features of the University

2.2.1 Genesis

Set up by Act No. 14 of 2002 vide Extraordinary Gazette notification of Government of Himachal Pradesh dated May 23, 2002 and approved by the University Grants Commission under section 2(f) of the UGC Act 1956, the sponsoring body of the University is Jaiprakash Sewa Sansthan (JSS).

The University commenced academic activities w.e.f. July 2002 with Undergraduate (UG) Programs for award of BTech degrees in Biotechnology, Bioinformatics, Computer Science & Engineering, Electronics & Communication Engineering, Information Technology and Civil Engineering. Post Graduate and Doctoral Programs leading to award of MTech and PhD degrees were added subsequently and are being conducted in the University.

2.2.2 Vision

To become a Center of Excellence in the field of IT & related emerging areas in education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management.

2.2.3 Mission

- (a) To develop as a benchmark University in emerging technologies.
- (b) To provide state-of-the-art teaching learning process and a stimulating R&D environment.
- (c) To harness human capital for sustainable competitive edge and social relevance.

2.2.4 Objectives of the University

As provided for in the JUIT Act, the objective of the University is to disseminate, create and advance knowledge, wisdom and understanding, and to offer technical education of the highest standards by teaching, research, training and extension activities.

2.3 Governance

The JUIT is governed in accordance with the JUIT Act and the Statutes. The statutory bodies are as follows: -

2.3.1 Governing Council

As per the Act of the University, the Governing Council is the supreme body of the University and its powers and functions shall be such as may be prescribed by the Statutes. Responsibility for the general superintendence, direction and control of the affairs of the university is vested with the Governing Council. The composition of the Governing Council for the year 2025-26 is given at **Appendix A**.

2.3.2 Executive Council

The Executive Council is responsible for the general management and administration of the University. The composition of Executive Council for the year 2025-26 is at **Appendix B**.

2.3.3 Academic Council

The Academic Council is the premier and august body of the University, which decides and monitors the implementation of academic policies of the university. The powers and functions of the Council are defined in the University Act. Amongst other major functions, the Academic Council controls and approves the courses in various curricula, defines the thrust areas, objectives and constantly reviews the activities of the departments to ensure improvements in standards. The composition of the Academic Council for the year 2025-26 is listed at **Appendix C**.

2.3.4 Finance Committee

The Finance Committee is responsible for examining accounts and scrutinize proposals for expenditure. The annual accounts of financial estimates of the University shall be prepared by the Finance Officer and shall be laid down before the Finance Committee for consideration and comments and thereafter submitted to the Governing Council for approval with or without amendments. The composition of Finance Committee for the year 2025-26 is at **Appendix D**.

2.4 Location and Area of Land

The University is located 3 km. off the Chandigarh-Shimla highway from Wagnaghat. Land measuring 114.01 bighas comprising Khasra No. 408/4 and 429/185 situated in Village Rachhiana, Tehsil Kandaghat, District Solan, H.P. has been allotted on lease by the Govt. of H.P. for JUIT.

2.5 Infrastructure

JUIT has been developed as a modern world-class campus, in serene and lush green environment. The state-of-the-art campus covers a total built up area of around 74,372.56 sqm. Smart buildings with internet and Wi-Fi connectivity, environmentally conditioned Academic Block, Annapurna (Mess), well-equipped modern laboratories, Learning Resource Centre, faculty and student residences provide a pleasant and intellectually

stimulating environment for students in an eco-friendly campus. The details of the infrastructure are attached as **Appendix E**.

2.6 Education System

An academic year consists of two semesters. The education system is based on credit system along with continuous evaluation of students' performance. System provides flexibility in choice of courses of interest and to pursue the same at an optimum pace suited to student's ability and convenience. Each course is assigned certain number of credits depending upon the class contact hours. A specified number of credits, attainment of minimum CGPA and completion of Industrial Training satisfactorily, are essential in order to qualify for a degree. The medium of instruction is English.

2.7 Accreditation

The University has been accredited by the National Assessment and Accreditation Council thrice. The first was in 2011, second time was in 2017 and the third in 2024. The NAAC accreditation with **A+** Grading is valid up to 29 October 2029.

The NIRF Ranking of the University is in band of 201-300 among all Engineering Institutes in the country in the year 2025.

The Biotechnology undergraduate Program of the University has been accredited by National Board of Accreditation (NBA) under Washington Accord for three academic years: 2024-25, 2025-26, and 2026-27.

2.8 International Rankings (2024-25)

S No	Ranking Year	Ranking Source	Grade / Rank	Remarks
1.	2025	SCIMAGO	179	Institution ranking
2.	2025	Times Higher Education (THE)	601-800	World University Rankings 2024 by subject: Computer Science
3.	2025	Times Higher Education (THE)	501-600	World University Rankings 2024 by subject: Engineering
4.	2025	Times Higher Education (THE)	801-1000	World University Rankings 2024
5.	2025	Times Higher Education (THE)	251-300	World University Rankings 2024-ASIA
6.	2025	QS	179	Asia University Ranking 2024: Southern Asia
7.	2025	QS	601-620	Asia University Ranking 2024

8.	2025	R World Institutional Rankings-2023	Titanium Band	Top Institution for Campus Life.
9.	2025	R World Institutional Rankings-2023	Platinum Band	OBE
10.	2025	IIRF Rank	36	Private University in India
11.	2025	NIRF	201-300	Engg. College in India

The University is approved by University Grants Commission under Section 2(f) of UGC Act 1956.

3. PROGRAMS OF STUDY

3.1 UG Programs

JUIT offered following Undergraduate Programs to award BTech degrees in the respective discipline during the year 2024-25: -

3.1.1 Bachelor of Technology (BTech)

- (a) Bioinformatics
- (b) Biotechnology
- (c) Civil Engineering
- (d) Computer Science & Engineering
- (e) Computer Science & Engineering with specialization in AI-ML/AI-DS/Cyber Security/ UX-UI Design / Full Stack Software Development
- (f) Information Technology
- (g) Electronics & Communication Engineering
- (h) Electronics & Computer Science
- (i) Electronics Engineering (VLSI Design & Technology)
- (j) Mathematics & Computing

3.1.2 Bachelor of Business Administration (BBA)

Industrial internship at the end of 6th Semester is an integral part of the academic program leading to overall development of the student through exposure to practical skills in real life situations.

The studies and examination of the undergraduate Programs is on the basis of marks-cum-credit system and final evaluation by grading system. Each Academic year is divided in two semesters viz. Odd Semester (July to December) and Even Semester (January to June).

3.1.3 Admissions (BTech)

Admission in BTech other than BTech Biotechnology & Bioinformatics Program

- (a) The admissions to BTech Program are governed by the rules of the UGC/MHRD or any other competent authority of the Govt. of India and as notified in the Admission Brochure of the respective academic year.
- (b) The minimum academic qualification for admission to the Program is as laid down in the Admission Brochure.
- (c) Minimum qualification for admission to the first year BTech is qualifying the Senior Secondary School Certificate (10+2) Examination or an equivalent examination with Physics and Mathematics as compulsory subjects from CBSE or any other recognized Board. The specific admission process and eligibility for admission to the BTech Program is available in the Admission Brochure of the respective year.

- (d) Non-resident Indian (NRI) candidates shall also be eligible for admission in BTech in accordance with directives of the MHRD/UGC.

Admission in BTech Biotechnology & Bioinformatics Program

- (f) Minimum qualification for admission is qualifying the Senior Secondary School Certificate (10+2) Examination or an equivalent examination with Physics and Biology/Biotechnology as compulsory subjects from CBSE or any other recognized Board.
- (g) A candidate with Mathematics and Biology/Biotechnology with Physics at 10+2 level is also eligible for admission to the Program.
- (h) The specific admission process and eligibility for admission to the BTech Biotechnology & Bioinformatics Program is available in the Admission Brochure of the respective year.

3.1.4 Admissions (BTech - Lateral Entry)

A candidate who has qualified three-year diploma Program/BE/BTech-1st year in related branch of engineering is eligible for admission to BTech – 2nd year through Lateral Entry. Minimum qualification for such Lateral Entry is as per the prevalent norms of the Govt. of India/UGC/MHRD or as approved in the Academic Council of the University. The specific admission process and eligibility for admission to BTech Lateral Entry Program is available in the Admission Brochure of the respective year.

3.1.5 Admissions (BBA)

Admission to BBA is based on the merit of the qualifying examination i.e., 10+2 examination. The minimum eligibility criteria for admission to the program is minimum 60% marks at 10+2 level or equivalent. The specific admission process and eligibility for admission to the BBA Program is available in the Admission Brochure of the respective year.

3.2 Post Graduate Programs

JUIT offers Post Graduate Programs towards the award of MSc and MTech Degrees in following disciplines: -

3.2.1 Master of Science (MSc)

- (a) Biotechnology
- (b) Microbiology

3.2.2 Master of Technology (MTech)

- (a) Biotechnology
- (b) Civil Engineering (Construction Management)
- (e) Civil Engineering (Environmental Engineering)
- (f) Civil Engineering (Structural Engineering)

- (g) Computer Science & Engineering
- (h) Computer Science & Engineering (Information Security)
- (i) Computer Science & Engineering (Data Science)
- (j) Electronics & Communication Engineering
- (k) Electronics & Communication Engineering – Internet of Things

3.2.3 **MSc (Biotechnology) & (Microbiology)**

One of the major objectives of MSc Biotechnology program is to generate human resource in the areas of basic and applied Biotechnology useful in industries and economical activities. The program is designed to impart skills in areas like Microbiology, Plant and Animal Tissue Culture, Molecular Biology, Recombinant DNA Techniques, Environment Biotechnology, Biomolecules, Bioprocess Technology, Basic Immunology Techniques and Clinical Diagnostics. The Department of Biotechnology, Govt. of India accepted JUIT proposal to fund this program (10 seats) for 2020-25.

3.2.4 **Admission (MSc)**

- (a) The University offers regular fulltime MSc Program through classroom teaching.
- (b) Minimum qualification for applying to the first year MSc is Bachelor's Degree in the concerned subject or equivalent with at least 55% aggregate marks or its equivalent CGPA from any recognized University / Institution or any other qualification as per UGC norms of eligibility.
- (c) Admission shall be done in the University based on merit list prepared on the basis of marks / grades obtained in the qualifying degree.
- (d) The specific admission process and eligibility for admission to the MSc Program is available in the Admission Brochure of the respective year.

3.2.5 **MTech (Biotechnology)**

The Masters in Technology in Biotechnology is a broad program covering different aspects of life sciences such as gene technology, bioprocess technology, immune-technology, bio-separation, enzyme technology, protein engineering, metabolic engineering and process and plant design.

3.2.6 **MTech Civil Engineering with specialization in Construction Management**

This two-year program aims to impart knowledge in areas like construction techniques, equipment, safety, planning; contracts, financial management, sustainable design; human resource management, affordable housing, value engineering and construction information systems through suitable core/compulsory & elective subjects and capstone projects and thesis work.

3.2.7 **MTech Civil Engineering with specialization in Environmental Engineering**

The MTech Program in Environmental Engineering has been started from the academic session 2014-2015. The main objective of the program is to develop competent professionals including consultants, scientists, and technocrats in the field of environmental engineering having requisite skills to solve complicated and practical problems, develop

effective communication skills and have the ability to work in multi-faceted and diverse groups. Beside elective subjects, the course has project work and thesis in the final year.

3.2.8 **MTech Civil Engineering with specialization in Structural Engineering**

This two-year program has been designed to provide knowledge in the areas like structural dynamics, design of tall buildings, repair and retrofitting of structures, modelling and simulation, bridge engineering, advance RCC and Steel design, FEM, etc. through suitable core/compulsory & elective subjects, projects in two parts and thesis work in the final year. The main objective of the Program is to prepare the students for working in structural design teams and if they wish, carry out research in the relevant fields.

3.2.9 **MTech (Computer Science & Engineering) & MTech (CSE with Specialization in Information Security) & MTech (CSE with Specialization in Data Science)**

This program offers a balanced emphasis on theoretical computer science, computer technology, software engineering, and applications of computing. The program provides advanced level education in areas like algorithms and data structures, software engineering, learning sciences and technology, high performance computer architecture, computer networking, network security, internet and web technologies, computer graphics, image processing, information systems, data warehousing & mining, data base management, operating systems, computational models, cognitive science, soft computing and human computer interaction.

3.2.10 **MTech (Electronics and Communication Engineering) & (Internet of Things)**

This program covers a number of areas like mobile, wireless, satellite, optical and computer communication systems and networks; signal processing, spread spectrum communication and error control coding techniques; microelectronics and VLSI design and information and communication theory through suitable core/compulsory and elective subjects and extensive project and thesis work. The program also focuses on developing analytical skills to enable fluent use of mathematical techniques as a tool for engineering research.

3.2.11 **Admission (MTech)**

- (a) Candidates who have a Bachelor degree in engineering or equivalent/Masters' degree or equivalent/possessing Associate Membership of professional bodies in the discipline of the degree are eligible for admission.
- (b) Candidates having valid GATE Score are exempted from (PGET) Post Graduate Entrance Test. However, Non-GATE candidates' admission is subject to meeting the qualified marks of PGET& performance in interview.
- (c) The specific admission process and eligibility for admission to the MTech Program is available in the Admission Brochure of the respective year.

3.3 **Doctor of Philosophy (PhD) Programs**

The University offers full time / part time PhD Programs in following disciplines:

- (a) Bioinformatics
- (b) Biotechnology

- (c) Civil Engineering
- (d) Computer Science & Engineering
- (e) Electronics & Communication Engineering
- (f) Humanities & Social Sciences
- (g) Mathematics
- (h) Physics and Materials Science

The Scholars are required to take up intensive research work under the guidance of a supervisor on a specific problem for a minimum of three years in this program. The academic programs leading to the PhD degree is broad-based and involves course credit requirements. The Scholars are required to deliver seminars on their research progress regularly and publish their work. Finally, they are required to submit the thesis embodying their research findings for the award of PhD degree.

3.3.1 **PhD Biotechnology, Bioinformatics**

The department runs PhD program in biotechnology, bioinformatics and pharmaceutical sciences with a provision of fellowships @ Rs. 37,000/month to scholars so that the students are provided an opportunity to learn modern teaching skills while pursuing their research so as to enable them to become academicians and researchers. The Dept. has PhD scholars in different areas of biotechnology such as medical biotechnology, plant biotechnology, agriculture biotechnology, environmental biotechnology, food technology, industrial biotechnology, computational drug discovery, bioinformatics tools development, medicinal chemistry, neuropharmacology, pharmaceuticals, etc.

3.3.2 **PhD Civil Engineering**

The Department carries out research and development activities in the areas of rock fill material modelling, constitutive modelling, FEM in geotechnical engineering, soil plasticity, slope stability problems (including seismic), soil-nailing, landfill design, fluvial hydraulics, scouring, flow of water around hydraulic structures such as bridge piers and abutments, concrete rheology, development of HPC with alcofine, micro-silica, etc., composite materials, prestressed concrete, dynamic analysis of structures subjected to extreme loading, and earthquakes, seismic evaluation of existing buildings, active and passive control of tall structures against earthquakes, smart structures, air pollution, estimation of NO_x / CO concentrations, solid-waste management and pavement materials.

3.3.3 **PhD Computer Science & Engineering**

The Department of Computer Science & Engineering promotes software, database, internet and information system technologies as well as network and distributed systems. Students are exposed to CASE tools, conceptual modeling, Requirements engineering and data warehouse design. They study all standard courses like data structures, object-oriented programming, operating systems, compilers, computer networks, etc. A special feature of our teaching is workshop courses where intensive practical experience is given on important tools like UNIX and Shell Programming, network programming, etc. Students are given courses in cutting edge technologies immediately relevant to industry, for example, web programming, web services, web application development, data mining, etc. Further they can opt for courses in futuristic technologies like Quantum Information Theory, Nano-Science & Technology.

Current research interests are in the areas of algorithms, computer graphics, computer network and security, database systems, data warehousing & data mining, digital image processing, internet technologies, learning science & technology and soft computing, parallel, distributed and grid computing, computer architecture, computer networks.

3.3.4 PhD Electronics & Communication Engineering

The Department of ECE offers PhD program in Electronics & Communication Engineering. The Department promotes strong exposure in the area of digital hardware design using VHDL, VLSI design, signal and speech processing, digital and data communication, data compression and error control coding, optical communication, satellite, wireless and mobile communication systems. Students are also exposed to core computer courses like data structures, object-oriented programming, operating systems and computer networks. Unique features of our department are designing electronic and communication systems using software tools such as MATLAB, PSPICE, Model-Sim and DSP kits.

3.3.5 PhD Humanities and Social Sciences

The Department was set up with the intention of producing well-rounded engineers, not only having good technological skills but also with the ability to interact with different organs of an organization. The Department develops 'soft' skills in group and co-operative working, economics, finance, project management etc. Additionally, the department exposes students to entrepreneurship skills, HR management, customer relationship management, total quality management etc.

3.3.6 PhD Mathematics

Departmental research interests are in applied group theoretic techniques, discrete symmetries, mathematical modeling and simulation, non-linear partial differential equations, linear algebra, numerical methods, operations research, differential geometry, wavelets and differential equations, Algebraic Coding Theory, sequence design, distributed source coding, fuzzy information measures, decision making, pattern recognition, Nonlinear Programming (Operations Research), Statistical Inference, Sampling Theory and Applied Statistics.

The Department of Mathematics was established from the very inception of the University mainly to cater the needs of BTech programs. The Department is well equipped with software like MATLAB, SPSS, Lingo and Lindo.

3.3.7 PhD Physics & Materials Science

The Department has strong research interests in nano-materials, microwaves and compound semiconductors. The Department has established five laboratories for the synthesis of nano-materials, thin film devices and characterizations. A microwave antenna laboratory has also been set up for fabrication and simulation of antennas. Research is being carried out with a number of doctoral students in the fields of nano-materials, semiconductors and microwave antennas.

The award of the PhD degree is in recognition of high academic achievements demonstrated by independent research and application of knowledge to the solution of technical and scientific problems. Creative and productive inquiry is the basic requirement underlying research work. The academic program leading to the degree involves fulfilling

course credit requirements, residential requirements and a thesis giving a critical account of the research carried out, in any of the areas listed below.

Nano-structured semi-conducting thin films, electro-luminescent display devices, magnetic multi-layered thin films, ferrite based micro-strip antennas, opto-electronic materials, semi-conducting materials for microelectronic devices.

3.4 **Admission (PhD)**

3.4.1 **Minimum Qualifications**

- (a) Regular (Not Distance Mode) MTech Degree of a University or equivalent for PhD in Engineering/Technology in respective branch with 60% aggregate Marks or CGPA not less than 6 on scale of 10.
- (b) Regular (Not Distance Mode) Master's Degree of a University for PhD in Sciences / Humanities / Social Sciences / Management in respective discipline or equivalent with 60% Aggregate marks or CGPA not less than 6 on scale of 10.
- (c) Consistently good academic record/performance with 1st division i.e. 60% aggregate marks or equivalent CGPA of not less than 6 on a scale of 10 at post graduate level for Scholars admitted after PG programs at (a) to (b) above.
- (d) Consistently good academic record / performance with 1st division with Distinction all through, i.e. 80% aggregate marks or equivalent CGPA of not less than 8.0 on a scale of 10 at undergraduate level for students from IIT's/NIT/IISER/IIIT's.
- (e) Candidates having qualified UGC / CSIR NET / SLET are exempted from PhD Entrance Test. Non-NET / SLET candidates' admission is subject to meeting the marks requirement of PhD Entrance Test and performance in interview.
- (f) The specific admission process and eligibility for admission to the PhD Program is available in the Admission Brochure of the respective year.

3.4.2 **Minimum Qualifications (post Academic Council Meeting dated 13 December 2024) (January 2025 Admissions)**

- (a) A 1-year/2-semester master's degree program after a 4-year/8-semester bachelor's degree program or a 2-year/4-semester master's degree program after a 3-year bachelor's degree program with at least 60% marks in aggregate or CGPA not less than 06 on scale of 10.
- (b) 4-year/8-semester bachelor's degree program with 75% aggregate marks or CGPA not less than 7.5 on scale of 10.
- (c) Consistently good academic record / performance

4. DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS

4.1. Vision and Mission

(a) **Vision.** To produce Biotechnology and Bioinformatics professionals with leadership quality in technology, creativity, innovation, and entrepreneurship

(b) **Mission**

- (i) **DM1:** The outcome-based teaching and learning practices to harness human capital for sustainable competitive edge and social relevance.
- (ii) **DM2:** To develop a research-based education model in Biotechnology & Bioinformatics.

4.2 Faculty Details

S. No.	Name	Qualification	Specialization
1.	Prof. (Dr.) Sudhir Kumar	PhD	Environmental Biotechnology – Bioremediation, Biofuels
2.	Prof. (Dr.) Jata Shankar	PhD	Fungal biology, Functional genomics
3.	Prof. (Dr.) Anil Kant Thakur	PhD	Plant Biotechnology, Molecular Biology
4.	Prof. (Dr.) Gopal Singh Bisht	PhD	Medicinal Chemistry, Peptides and Peptidomimetics
5.	Prof. (Dr.) Hemant Sood	PhD	Plant Biotechnology and IPR
6.	Prof. (Dr.) Rahul Shrivastva	PhD	Microbial Pathogenesis, Mycobacteriology
7.	Prof. (Dr.) Tiratha Raj Singh	PhD	Bioinformatics, Functional genomics, Molecular Evolution and Systems Biology
8.	Dr. JitendraaVashistt	PhD	Bacterial Resistance, Clinical Proteomics
9.	Dr. Poonam Sharma	PhD	Chemistry
10.	Dr. Saurabh Bansal	PhD	Protein engineering, Enzymology, Industrial Biotechnology
11.	Dr. Udayabanu M.	PhD	Neuropharmacology
12.	Dr. Vijay Kumar Garlapati	PhD	Bioprocess Engineering
13.	Dr. Abhishek Chaudhary	PhD	Nanobiotechnology
14.	Dr Ashok Nadda	PhD	Bioenergy/Biopolymer/Enzyme Technology/Biocatalysis
15.	Dr. Raj Kumar	PhD	Bioinformatics
16.	Dr. Shikha Mittal	PhD	Bioinformatics, Next-generation Sequencing
17.	Dr. Tyson	MVSc	Veterinary Science

4.3 Programs

4.3.1 Undergraduate Programs

- (a) The program is designed to provide hands-on training through appropriate laboratory courses to gain a better understanding of the theory courses.
- (b) The course curriculum encompasses courses from core Biotechnology, Bioinformatics, Mathematics, Physics and Material Sciences, Electronics & Communication, Computer Science Engineering, Humanities & Social Sciences.
- (c) Elective modules, proficiencies and minor specializations are offered in the course curriculum to strengthen and specialize students' knowledge (theoretical and practical) in their area of interest.
- (d) The students are encouraged to participate in various extracurricular and co-curricular activities for developing leadership, communication, critical thinking and problem-solving skills.
- (e) The students are encouraged to participate in various bio-entrepreneurial activities through the entrepreneurship cell and the Bio-club 'Synapse' for developing their business and entrepreneurial skills.
- (f) Summer Internships with industry projects are a mandatory component.
- (g) Two undergraduate programs are currently running by the Department:
 - (i) B.Tech (Biotechnology)
 - (ii) B.Tech (Bioinformatics)

4.3.2 NBA Accreditation

The Department of Biotechnology and Bioinformatics received National Board of Accreditation (NBA) approval for its B.Tech. Biotechnology program for a three-year period from July 1, 2017, to June 30, 2021. This accreditation was subsequently extended until June 30, 2022. The NBA team conducted another evaluation visit from October 2 to 4, 2024. As a result, the B.Tech. Biotechnology program was once again accredited for a three-year term, valid from July 1, 2024, to June 30, 2027.

4.3.3 Ph.D. Completed (2024-2025)

S. No.	Name & Enrollment No	Program	Title of Thesis
1.	Suhani Bhagta 196552	PhD Biotechnology	RNAi-mediated spray-induced silencing of multiple genes of <i>Venturia inaequalis</i> for apple scab management
2.	Lalita Sharma 186554	PhD Biotechnology	Design, synthesis, characterization and biological evaluations of Antimicrobial peptides
3.	Sargeet Kaur 186555	PhD Biotechnology	Role of autophagy-related genes in hepatitis B virus infection susceptibility

4.3.3.1 New Ph.D. Students Enrolled

S. No.	Roll No.	Name
1	246551	MeghaPuri
2	246552	Bishal Tiwari
3	246553	Minal Chauhan
4	246554	Dr. Tyson
5	246555	Anamika Gupta
6	246556	Dheeraj Kumar
7	246557	Tuba Khan
8	246558	Manashi Devi
9	246559	Aarika Jain

4.3.4 Certificate Course on Industrial Plant Tissue Culture. Duration: 12 weeks

4.3.4.1 Certificate Course Completed (2024-2025). The following students have completed:

S. No	Name of the Candidate	Place	Roll No.	Status
1	Abhay Chaudhary	Uttaranchal	24CBT001	Completed
2	Rahul Jose	Kerala	24CBT002	Completed
3	Yajuna Sharma	Sikkim	24CBT003	Completed

4.4 Infrastructural Strengths

The Department has been equipped with 3 Bioinformatics Labs with high-end servers, Sun Workstations and IBM Machines installed with several bioinformatics software packages such as Discovery Studio and DNASTAR for educating students in algorithm design, bio-programming & scripting languages, computational drug designing, development of biological databases, advanced chemo-informatics, etc. The Department has 21 state-of-the-art modern biotech laboratories, such as Proteomics Technology Lab, Genomic Technologies Lab, Plant Biotechnology Lab, Microbial Biotechnology Lab, Animal & Plant Cell Culture labs, Animal house, Environmental Biotechnology Lab, Industrial Biotechnology lab, Fermentation Technology lab and High-End Instrumentation lab.

4.5 Centres. Two Centres were established in the Department by a decision from the Academic Council in its meeting held on 2nd Dec., 2017.

- (a) **Centre of Healthcare Technologies and Informatics (CEHTI):** The Centre is working with the following objectives:
- (i) Carry out training activities that are concentrated in the field of health information of national importance and strategic dimension.
 - (ii) Enabling a scientific research environment in order to enable researchers, graduate, postgraduate, and PhD students to conduct innovative research and develop advanced technologies to assume the lead in the field of biomedical and health informatics.

- (iii) Strengthen cooperation in the areas of health informatics between national and international universities and other centres of excellence.
- (iv) Working to submit projects that emanate from the distinguished research ideas in the field of health informatics, in order to benefit health sectors.

(b) **Centre of Sustainable Technologies for Rural Development (CESTRD):** The Centre is working with the following objectives:

- (i) General awareness program for the rural youth, women, and children of the rural areas on an interactive basis.
- (ii) To survey and analyze the problems in planning and implementation of the Government schemes & programs for rural development.
- (iii) To run the innovative training workshops, seminars, disseminate information, and transfer technology (Biogas, vermicompost, biomass Briquettes) to the rural people in an integrated sustainable mode of rural development.
- (iv) To make rural people aware of education, especially vocational training, to make earnings other than from agriculture.

4.6 Lab Staff with Qualifications

Name	Designation	Qualification
Sh. Mohd. Ismail Siddiqui	Sr. Lab Engineer	M.Sc.
Ms. Somlata Sharma	Sr. Lab Engineer	M.Sc.-IT
Sh. Baleshwar Prasad Shukla	Sr. Lab Technician	M.Sc.
Ms. Mamta Mishra	Lab Technician	M.Sc.
Ms. Sonika Gupta	Lab Technician	D. Pharma

4.7 Research Projects Sanctioned during the Years 2024-2025/In Progress

Name of Faculty	Project title	Funding Agency	Amount sanctioned	Duration	Current Status
			(In Lakhs)		
Prof. Anil Kant	Postgraduate teaching program	DBT	130	2020-25	Ongoing
Dr. Poonam Sharma	Synthesis and physicochemical characterization of ethosomes as an effective carrier for transdermal delivery of antifungal agents	SERB (DST-Core Research Grant)	30.25132	2022-26	Ongoing
Prof. Sudhir Kumar	Production and phyco-upgradation of biogas from pine straw co-digested with food waste	Directorate of Innovation and Development - DRID (Jaypee	0.5	2023-26	Ongoing

Name of Faculty	Project title	Funding Agency	Amount sanctioned	Duration	Current Status
		Research Fund)			
Prof. Sudhir Kumar	Pine needles-based dark fermentation towards biohydrogen production	Directorate of Innovation and Development - DRID (Jaypee Research Fund)	1.5	2023-25	Completed
Dr. Anil Kant	Development of nanoparticle-based formulations of agrochemicals, their testing and commercialization	Kanpur Fertilizer Ltd.	5	2024-25	Completed
Dr. Ashok Kumar	CO ₂ -phillic nanotextured surface immobilized carbonic anhydrase for the enhanced growth of microalgae and efficient CO ₂ sequestration	HIMCOSTE	6.8	2023-25	Ongoing

4.8 Conferences, Seminars and Workshops/Faculty Development Program

4.8.1 Conferences

(a) Conferences Organized

Dates	Subject	Venue	Participation (Nos.)	Remarks
28-Feb-2025	4th National Science Day Symposium (NSDS)	JUIT	150	Prof. Tiratha Raj Singh, Dr. Udayabanu
Dates	Subject	Venue	Participation (Nos.)	Remarks
8-10 Oct-2024	International Conference on Recent Developments in Interfaces of Chemistry and Biology towards Health and Environment	JUIT		Dr. Poonam Sharma
23-Aug-2024	First National Space Day	JUIT	75	Prof. Tiratha Raj Singh, Dr. Udayabanu

(b) **Conferences Attended**

Dates	Subject	Venue	Faculty Name	Remarks
08 - 10 October 2024	International Conference on Recent Developments on Interfaces of Chemistry, Biology and Material Sciences towards Health and Environment (ICBMHE-2024)	CSTERD and Department of BT and BI supported by Anusandhan National Research Foundation– DST, Govt. of India	Prof. Hemant Sood	Chair session
06 - 08 March 2025	The 7th IEEE International Conference on Signal Processing, Computing and Control (ISPCC-2025)	The Electronics & Communication Engineering department of Jaypee University of Information Technology (JUIT), Wagnaghat, Himachal Pradesh	Prof. Hemant Sood	Chair session
08 - 10 October 2024	International Conference on Recent Developments on Interfaces of Chemistry, Biology and Material Sciences towards Health and Environment (ICBMHE-2024)	CSTERD and Department of BT and BI supported by Anusandhan National Research Foundation– DST, Govt. of India	Prof. Hemant Sood and B.Tech students (Jyoti Dhyani and Ibadat Kaur)	Poster presentation
24-25 August 2024	"Exploring the role of fungal endophytes for the production of anti-cancerous compound podophyllotoxin from <i>Podophyllum hexandrum</i> ", in Sustainable India's International conference on Sustainable Technology, Innovation and Asian Challenges to Sustainability	Sustainable India, in collaboration with IITBhilai and the Indian Council of Social Science Research at IITBhilai, Chhattisgarh.	Prof. Hemant Sood and Kritika Singh	Oral Presentation

Dates	Subject	Venue	Faculty Name	Remarks
08 - 10 October 2024	International Conference on Recent Developments on Interfaces of Chemistry, Biology and Material Sciences towards Health and Environment (ICBMHE-2024)	CSTERD & Department of BT and BI supported by Anusandhan National Research Foundation– DST, GoI	Prof. Hemant Sood	Chair session
29 - 31 January 2025	International Conference on Advances in Biosciences and Biotechnology	Department of Biotechnology, JIIT Noida	Prof. Jata Shankar and Priya Gautam	Oral Presentation
29 - 31 January 2025	International Conference on Advances in Biosciences and Biotechnology	Department of Biotechnology, JIIT Noida	Prof. Jata Shankar, and Dr Ashok K Nadda, Gunjan Dhupper	Best Product Display
29 - 31 January 2025	International Conference on Advances in Biosciences and Biotechnology	Department of Biotechnology, JIIT Noida	Prof. Jata Shankar	Session Chair
20-22 March 2025	Biotechnology, Biomanufacturing and Bioeconomy (BIO3)	Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala	Prof. Jata Shankar and Ashok K Nadda, Gunjan Dhupper	Poster presentation (3 rd Prize)
08 - 10 October 2024	International Conference on Recent Developments on Interfaces of Chemistry, Biology and Material Sciences towards Health and Environment (ICBMHE-2024)	CSTERD and Department of BT and BI supported by Anusandhan National Research Foundation– DST, GoI	Dr. Saurabh Bansal	Poster presentation
08 - 10 October 2024	International Conference on Recent Developments on Interfaces of Chemistry, Biology and Material Sciences towards Health and Environment (ICBMHE-2024)	CSTERD & Department of BT & BI supported by Anusandhan National Research Foundation– DST, GoI	Prof. Rahul Shrivastava	Chair session

4.8.2 Seminars(a) Seminars Organized

Dates	Speaker Name, Affiliation	Subject	Venue	Faculty Name
21-May-2025	Dr. Anita Sardana, Deptt. of CSE & IT, JUIT	IPR Cell of JUIT organized a session on Journey from Idea to Patent	JUIT	Prof. Sudhir Kumar
03-May-2025	Prof. Mukesh Singh, Senior Member, IEEE, from the Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala.	One-Day Faculty Development Program on How to Write a Successful Research Project	JUIT	Prof. Sudhir Kumar
17-18 February 2025.	Prof. Sudhir Kumar	Training sessions on Graduate Aptitude Test (GAT-B) and IIT-JAM preparation	Government Postgraduate College, Sector-1, Panchkula	Prof. Sudhir Kumar
10-May-2025	Prof. Anil Kant	Overview of the mock Graduate Aptitude Test (GAT-B) Session, followed by felicitation	JUIT	Prof. Jata Shankar, Prof. Anil Kant, Prof. Rahul Shrivastava,

(b) Seminars Attended

Dates	Subject	Venue	Faculty Name	Remarks
21-Mar-2025	IP Awareness Training Program	Intellectual Property Office, India (NIPAM)	Dr. Rahul Shrivastava	Online
25-Apr-2025	Webinar on IP and Music— Feel the beat of IP, organized by Turnip Innovations and Qualcomm Inc.	JUITWaknaghat	Prof. Hemant Sood	Attendee

Dates	Subject	Venue	Faculty Name	Remarks
27-Nov-2024	A national session on Vegan Outreach—Food Planet Health Session, organized by NSS of JUIT, under Vegan Outreach collaboration with the Central Ministry of Youth Affairs and Sports, along with our impact partner India Animal Fund, to conduct the Food-Planet-Health Awareness Session with the NSS.	JUITWaknaghat	Prof. Hemant Sood	Attendee

4.8.3 Workshops

(a) Workshops Organized

Dates	Subject	Venue	Faculty Name	Participation Nos.	Remarks
3 June - 15 July 2025	Summer Training Workshop for Outside participants	Dept. BTBI, JUIT, Solan	Prof. Rahul Shrivastava	17	
24 March- 5 April 2025	A two-week workshop on Advanced Molecular and Plant Tissue Culture Techniques for NERI students from Hamirpur at JUITWaknagaht.	JUIT	Prof. Jata Shankar and Prof. Hemant Sood	19	
28-Mar-2025	BIOGENESIS	JUIT	Prof. Tiratha Raj Singh and Prof. Hemant Sood	40	
25-Feb-2025	One-Day Workshop on 'Molecular Biology and Proteomics'	Govt. Mohindra College, Patiala, Punjab	Prof. Rahul Shrivastava, Dr. JitendraaVashistt	45	
24-Feb-2025	One-Day Workshop on 'Molecular	General Shivdev Singh Diwan	Dr. Rahul Shrivastava, Dr.	50	

Dates	Subject	Venue	Faculty Name	Participation Nos.	Remarks
	Biology and Proteomics'	Gurbachan Singh Khalsa College, Patiala, Punjab	JitendraaVa shistt		
19-Feb-2025	One-day workshop on Molecular Biology and Immunotechniques	Netaji Subhas Chandra Bose Memorial Government College, Hamirpur	Dr Tyson	60	
19 -Feb-2025	One-day Workshop on Career Counselling at the Government Degree College, Chaura Maidan, Shimla	Dept. BT/BI, JUIT, Solan	Dr. Poonam Sharma		
11-Jan-2025	One-Day Workshop On Co-Po Mapping, Justification And Attainment	JUIT	Prof. Sudhir Kumar, Dr. Saurabh Bansal	15	
08-Nov-2024	Basic microbiological techniques, focusing on the differentiation between different types of bacteria on the basis of catalase test.	GOVT. Boys Senior Secondary School, Rohru	Prof. Sudhir Kumar		
26-Oct-2024	A workshop on Basic Biotechnology Techniques and Career Prospects in Life Sciences	G. B. Pant Memorial Govt. College Rampur Busharh, Shimla	Prof. Sudhir Kumar		
20-Dec-2024	One-Day Workshop on 'Molecular Biology Techniques'	Departments of Zoology and Botany, G. B. Pant Memorial Govt. College, Rampur Bushahr, Shimla, Himachal Pradesh	Prof. Rahul Shrivastava	70	

(b) **Workshops Attended**

Dates	Subject	Venue	Faculty Name	Remarks
18-Sept-2024	NashaMukt Hostel	Ministry of Social Justice and Empowerment, Govt. of India	Prof. Rahul Shrivastava	Online
06-08 Feb-2025	Molecular Docking, Biological Software Packages and Cell Culture Techniques Protocol, Sathyabama Institute of Science and Technology, Chennai	Online	Dr. Udayabanu M.	Attendee
29-Nov-01 Dec-2024	Challenges in Enhancing Reproductive Efficiency of Livestock: An Indian Perspective	GADVASU Ludhiana, Punjab	Dr. Tyson	Resource person
07-11 Jan-2025	Climate Smart solutions for heat stress in livestock and poultry	IVSAHSiksha O AnusandhanBhubheshwar	Dr. Tyson	Online
27-29 Mar-2025	Designing of experiments in Veterinary and animal science	IVSAHSiksha O Anusandhan Bhubaneshwar	Dr. Tyson	Online
06-Feb-07-Mar-2025	Modern Biology in Health Research	Mahatma Gandhi Medical Advanced Research Institute (MGMARI)	Dr. Shikha Mittal	Online
02-03-Apr-2025	Research Methods in Big Data Analytics for Healthcare: From Basics to Applications	Indian Council of Medical Research, New Delhi	Dr. Shikha Mittal	Online
02-Jun-2025	Half-day workshop on Fostering Visionary Academic Leadership for Institutional Excellence	IQAC, JUITWaknaghat	Dr. Saurabh Bansal	Attendee
13-Jun-2025	Live workshop on Generative AI Tools	Skill Nation	Dr. Saurabh Bansal	Attendee
02-Jun-2025	Fostering Visionary Academic Leadership for Institutional Excellence, organised by JUIT	JUIT, Waknaghat, Solan	Prof. Hemant Sood	Attendee

Dates	Subject	Venue	Faculty Name	Remarks
21-26-Apr-2025	Master class series under IP UTSAV organised virtually by AICTE and Ministry of Education's Innovation Cell (IIC)	IIC and TIEDC, JUITWaknaghat	Prof. Hemant Sood	Attendee
13-Dec-2024	Women Leadership Program entitled "Women Leaders: Shaping Academic Excellence for VIKSIT Bharat@2047" Organized by the University Grants Commission.	IIT Delhi	Prof. Hemant Sood	Attendee
22-26-Jul-2024	One week workshop on 'Ignite 2024' organized by TIEDC and IIC of JUIT.	JUIT, Waknaghat, Solan	Prof. Hemant Sood	Attendee
02-Jun-2025	Fostering Visionary Academic Leadership for Institutional Excellence, organised by JUIT	JUIT, Waknaghat, Solan	Prof. Gopal Singh Bisht	Attendee

4.8.4 **Faculty Development Programs**

(a) **Faculty Development Programs Organized** Nil.

(b) **Faculty Development Programs Attended**

Dates	Subject	Venue	Faculty Name	Remarks
04-12 Apr 2025	NEP 2020 Orientation & Sensitization Programme	Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi	Prof. Rahul Shrivastava	Online
22-30 April 2025	NEP 2020 Orientation & Sensitization Programme	Malaviya Mission Teacher Training Centre, Himachal Pradesh University, Shimla	Prof. Rahul Shrivastava	Online

Dates	Subject	Venue	Faculty Name	Remarks
03-08 Feb 2025	Advanced Excel with Data Visualization	E & ICT Academy, IIT Kanpur	Prof. Rahul Shrivastava	Online
6-10 Jan 2025	Emerging Technologies for Educators: AI, IoT, and AR/VR.	C-DAC, Mohali and Bahra University, Solan	Prof. Rahul Shrivastava	Online
28 Jan - 01 Feb 2025	Transforming Pharmacy Education: An FDP on cutting-edge Strategies for Teaching, Innovation, Research and Leadership	Erode College of Pharmacy and APTI	Dr. Udayabanu M.	Online
17-22 Feb 2025	Machine learning with Python	E & ICT Academy, IIT Kanpur	Dr. Shikha Mittal	Online
03 May 2025	One Day FDP on How to write a successful research proposal	JUIT	Dr. Saurabh Bansal	Attendee
23 Jun - 05 Jul 2025	NEP 2020 Orientation and Sensitization programme	Malaviya Mission Teacher Training Centre, Indian Institute of Technology (Indian school of Mines) Dhanbad	Dr. Saurabh Bansal	Attendee

4.9 Publications

(a) Journal Publications

Name of Faculty	Title of Article	Name of Journal	Reference	Citation (Since publication)
Prof. Hemant Sood	Exploring the complexity of plant stress response: Role of metabolomics and signalling pathways in metabolic diversification	Journal of Plant Biochemistry and Biotechnology	https://doi.org/10.1007/s13562-025-00986-5 ISSN: 0974-1275. Print ISSN: 0971-7811, SCIE, (IF:1.7)	
Prof. Hemant Sood	Effects of acoustic waves on the growth, development and phytochemical contents of in vitro raised <i>Swertia chirayita</i>	Next Research	19th Jan 2025, vol 2 article no100158, Online ISSN: 3050-4759. Scopus https://doi.org/10.1016/j.nexres.2025.100158	

Name of Faculty	Title of Article	Name of Journal	Reference	Citation (Since publication)
Prof. Hemant Sood	<i>Trillium govonianum</i> : A promising rare and commercially important medicinal herb from higher altitudes of the Himalayas.	Plant Science Today	18th jan.2025, (ISSN 2348-1900).Scopus (0.9) WoS https://doi.org/10.14719/pst.4325	
Prof. Hemant Sood	Exploring The Role Of Fungal Endophytes For The Production Of Anti-Cancerous Compound Podophyllotoxin From Podophyllum Hexandrum	The Progress Journal	Oct. 5, 2024 vol2(3) PP: 1-4, ISSN – 2584-0517. https://www.theprogressjournals.com/archive-detail.php?journal=44	
Prof. Hemant Sood	Pathway Gene Paralogues and Transcription Factors Differentially Associate with Contents of Picrosides in Tissues and Populations of a Medicinal Herb, <i>Picrorhizakurroa</i>	Biochemical Genetics	Sep.23,2024, https://doi.org/10.1007/s10528-024-10930-2 , ISSN: 0006-2928 (IF:2.1) SCI/Scopus	
Prof. Hemant Sood	Exploring the pharmacological activities of <i>Artemisia annua</i> : Current research, formulation and its future perspective	African Journal of Biological Sciences,	July 23, 2024 vol 6(Si4), pp 3518-37 (ISSN: 2663-2187) https://doi.org/10.48047/AFJBS.6.Si4.2024.3518-3537 Scopus (Elsevier)	
Prof. Sudhir Kumar	Unraveling the Structural and Functional Insights of Bacterial HCN Synthase Enzyme.	Current Enzyme Inhibition	April 2025, https://doi.org/10.2174/0115734080349454250326070943	
Prof. Sudhir Kumar	Augmentation in bioleaching potential of indigenous Bacillus sp. ISO1 for metals recovery from waste computer-printed circuit boards	International Microbiology	2024,27(3), 845-855	6

Name of Faculty	Title of Article	Name of Journal	Reference	Citation (Since publication)
Prof. Jata Shankar	Exploring Green Inhibitors from Microbes and Plants: Current Trends and Future Perspectives in Sustainable Approach	Journal of Bio and Tribo Corrosion	12 March 2025, vol 11 (56), https://doi.org/10.1007/s40735-025-00977-y , Scopus	
Prof. Jata Shankar	Study on underground storage of potato (<i>Solanum tuberosum</i>) during winter in Ladakh	Current Horticulture	26 Nov 2024, 12(3), 82–83, ISSN 2455-7560, https://www.currenthorticulture.com/index.php/CURHOR/article/view/211 ,	1
Prof. Jata Shankar	A natural small molecule-mediated inhibition of alpha-synuclein aggregation leads to neuroprotection in <i>Caenorhabditis elegans</i>	Journal of Neurochemistry	Aug 2024, 168 (8), (1640-1654) https://doi.org/10.1111/jnc.15907 , ISSN 1471-4159 (4), SCIE/Scopus	6
Dr. Saurabh Bansal	Simultaneous Production of Biogas and Electricity from Anaerobic Digestion of Pine Needles: Sustainable Energy and Waste Management	BioTech	2024, 13 (3): 35. IF: 3.1, ESCI, Scopus, https://doi.org/10.3390/biotech13030035	2
Prof. Gopal Singh Bisht	Unveiling the Self-assembly and Therapeutic Efficacy of Antimicrobial Peptides SA4 Against Multidrug-Resistant <i>A. baumannii</i> .	Current Microbiology	2024, [81(395):1-10] IF 2.6, SCOPUS, SCI, UGC Care	1
Prof. Gopal Singh Bisht	Anticancer Peptides: Unveiling the Next Frontier in Cancer Treatment.	International Journal of Peptide Research and Therapeutics	2025, [31(64):1-20] IF 2.4, SCOPUS, SCI, UGC Care	

Name of Faculty	Title of Article	Name of Journal	Reference	Citation (Since publication)
Dr. Abhishek Chaudhary	Biogenic and rapid route for the synthesis of palladium nanoparticles by using <i>Roylea cinerea</i> extract and their catalytic activity for Suzuki and Sonogashira coupling reactions and nitrophenol reduction	Journal of Organometallic Chemistry	Journal of Organometallic Chemistry 1018 (2024) 123294, IF 2.4, Scopus, SCIE	
Dr. Abhishek Chaudhary	Statistical Design and Analysis for Enhanced Production of Tetracycline-Conjugated Copper Oxide Nanoparticles with Improved Antimicrobial Properties	Chemistry Select	2024,09, e202402210, https://doi.org/10.1002/slct.202402210 , IF 2.0, SCIE, Scopus	
Dr. Rahul Shrivastava	Computational Model to Predict Potential Therapeutic Targets Employing Generative Adversarial Networks for Analysis of Proteins Involved in <i>Mycobacterium fortuitum</i> Biofilm Formation	Current Medicinal Chemistry	vol. 39817380, pp. –, 2025, doi: 10.2174/0109298673345515241122024326, [SCOPUS, SCI, UGC Care]	
Dr. Rahul Shrivastava	A framework for two-class Classification of Pulmonary Tuberculosis using Artificial Intelligence	Current Medical Imaging	Bentham Science Publishers, Apr. 2025, doi: 10.2174/0115734056343819250307040956, [SCOPUS & SCIE indexed].	

Name of Faculty	Title of Article	Name of Journal	Reference	Citation (Since publication)
Dr. Raj Kumar	Vitamin K3 derivative inhibits androgen receptor signaling in targeting aggressive prostate cancer cells	BioFactors	vol. 51, no. 1, p. e2117, 2025. [Online]. Available: https://doi.org/10.1002/biof.2117	1
Dr. Raj Kumar	Harnessing extracellular vesicles-mediated signaling for enhanced bone regeneration: novel insights into scaffold design	<i>Biomedical Materials</i>	vol. 19, no. 5, p. 055004, Jul. 2024, doi: 10.1088/1748-605X/ad5ba9.	5
Prof. Tiratha Raj Singh	A computational study on structural and functional consequences of nsSNPs in human dopa decarboxylase	Journal of Biomolecular Structure and Dynamics	2025 [43 (5): 2503–2517] IF: 2.4, Indexing: SCI, Scopus, SCIE	
Prof. Tiratha Raj Singh	GTF2I acts as a novel tumor suppressor transcription factor and shows favorable prognosis in renal cancer	Integrative Biology	2025 [17:17] IF: 1.5, Indexing: SCI, Scopus, SCIE	
Prof. Tiratha Raj Singh	AlzGenPred - CatBoost-based gene classifier for predicting Alzheimer's disease using high-throughput sequencing data.	Scientific Reports	2024, 14, 30294 IF: 3.9, INDEXING: SCI, Scopus	
Prof. Tiratha Raj Singh	PMTPred: machine-learning-based prediction of protein methyltransferases using the composition of k-spaced amino acid pairs	Molecular Diversity	2024, IF: 3.8, INDEXING: SCI, Scopus	
Dr. Udayabanu M.	<i>Impact of Moringa oleifera Hydro-Alcoholic Bark Extract on Diabetic Wound Healing: A Topical Approach</i>	The International Journal of Lower Extremity Wounds	doi:10.1177/15347346241297829	

Name of Faculty	Title of Article	Name of Journal	Reference	Citation (Since publication)
Dr. Udayabanu M.	Exploring the Potential of Aloe Vera Hydro-Alcoholic Leaf Extract for Topical Diabetic Wound Healing Treatment	International Journal of Advancement in Life Sciences Research	2025, 8(2), 152-168. https://doi.org/https://doi.org/10.31632/ijalsr.2025.v08i02.012	
Dr. JitendraaVashistt	Autophagy-related gene BECN1 single-nucleotide polymorphisms in diseases	Molecular and Cellular Biochemistry	Vol. 480, pages 2765–2769, (2025), SCOPUS, SCIE, IF 3.7	
Dr. Ashok Kumar Nadda	Enhanced production of lutein in <i>Tetrademus obliquus</i> by medium engineering and its application for the development of lutein-loaded hydrogel.	Biomass conversion and Biorefinery,	pp. 1-10, 2025	
Dr. Shikha Mittal	Identification of hub genes associated with stripe rust disease in wheat through integrative transcriptome and gene-based association study	South African Journal of Botany	Volume 171, August 2024, Pages 583-591	
Dr. Shikha Mittal	Identification of key genes and molecular pathways regulating heat stress tolerance in pearl millet to sustain productivity in challenging ecologies	Frontiers in Plant Science	Volume 15, 1443681	

(b) **Conference Publications**

Name of Faculty	Title of Article	Conference Title/Name of Journal	Reference	Dates
Prof. Hemant Sood	Biostabilization of slopes: A review	Proceedings of International conference on Civil, Material	Vol 596, 2024, pp. 10, Article No. 01019. DOI: https://doi.org/10.1051/e	22 Nov 2024

		Environment for Sustainability under the section Civil, Materials and Environment for Sustainability ICCMES 2024 of E3S Web of Conferences	3sconf/ 202459601019 (Scopus)	
Prof. Sudhir Kumar	Revolutionizing E-Waste Management: Valorization and Bioleaching for Sustainable Recovery of Critical Metals.	Conference on Bio3: Biotechnology, Biomanufacturing, and Bioeconomy, TIET, Patiala		20-22 Mar 2025
Prof. Sudhir Kumar	Sustainable E-Waste Bioremediation with Toxicity Tolerant Resistant Bacteria.	Conference on Bio3: Biotechnology, Biomanufacturing, and Bioeconomy, TIET Patiala		20-22 Mar 2025
Prof. Sudhir Kumar	Biomining: A sustainable solution for space debris and extraterrestrial waste utilization	National Conference on Environment, Govt. Arya Degree College, Nurpur, HP		7-8 Mar 2025
Prof. Jata Shankar and Ashok K Nadda	Extraction of melanin from <i>Aspergillus niger</i> , a sustainable biopolymer for various applications	Conference on Bio3: Biotechnology, Biomanufacturing, and Bioeconomy, TIET Patiala		20-22 Mar 2025
Prof. Jata Shankar	<i>Saccharomyces boulardii</i> mediated inhibition of <i>Aspergillus flavus</i>	8th International Conference on Advances in Biosciences and Biotechnology, held at IIIT, Noida, India		29-31st January, 2025
Prof. Rahul Shrivastava	Drug Discovery for Mycobacterium Tuberculosis:	Proceedings of the 2024 IEEE Region 10 Symposium	Akansha Nayyar, Rahul Shrivastava, Shruti Jain (2024). Drug Discovery for Mycobacterium	27-29 Sept 2024

	An Experimental Analysis.	(TENSYPMP) [New Delhi: Sep 27-29, 2024], pp.1-6.	Tuberculosis: An Experimental Analysis. Proceedings of the 2024 IEEE Region 10 Symposium (TENSYPMP) [New Delhi: Sep 27-29, 2024], pp.1-6. [SCOPUS]. DOI: 10.1109/TENSYPMP61132.2024.10751822	
Prof. Tiratha Raj Singh	Parallel Processing of Gene Expression Data to Identify Potential Genes Involved in the Progression of Breast Cancer	8th International Conference on Parallel, Distributed, and Grid Computing (PDGC), Solan, India	N. P. Singh and T. R. Singh, "Parallel Processing of Gene Expression Data to Identify Potential Genes Involved in the Progression of Breast Cancer," in Proc. 8th Int. Conf. Parallel, Distributed and Grid Computing (PDGC), Solan, India, Dec. 2024, pp. 377–382.	18–20 Dec 2024

4.10 Patents

S No	Patent No. and Date of Grant/ published/ filed	Application No.	Title	Department and Inventors
1	Design Patent 417682-001 and 04 July 2024	417682-001	Phytoreactor	Shivam Sharma, Hemant Sood, and Jaypee University of Information Technology
2	Design number 427876-001 on 02 December 2024	427876-001	Device for monitoring and analyzing plant acoustic frequencies	Dr. Poonam Sharma, Swalpanaa, Dr. Vikrant Abbot and Dr. Hemant Sood
3	26 July 2024	202411053689	AI and ML-based driver behavior monitoring system for enhanced accident prevention	Tanish Mahajan, Hridhima Sen, Vaibhav Sharma, Diksha Hooda, Jata Shankar
4	04 April 2025	202511027148	A composition and a process to extract and apply biopolymer-based melanin dye from <i>Aspergillus niger</i>	Gunjan Dhupper, Jata Shankar, Ashok Kumar Nadda

5	11 July 2025	202511060660	Method and Composition for Preparing Keratin-Based Cosmetic Cream for Skin Care from Poultry Feather	Megha Maurya, Poonam Sharma, Ashok Kumar Nadda
6	09 August 2024	202411055233	Biodegradable composite sponge from microalgal biomass for green packaging and water treatment application	Kriti Sharma, Ashok Kumar Nadda.
7	12 July 2024	202411050496	Biodegradable Biopolymeric Film Derived from Chicken Feathers for Sustainable Packaging.	Piyush Kumar Kesharwani, MeghaMourya, Ashok Kumar Nadda.
8	21 June /2024	202411045713	Biodegradable Keratin-Based Biocomposite for Dye Removal From Wastewater.	SanskritiSauhta, MeghaMourya, Ashok Kumar Nadda.

4.11 Books/Book Chapters Published

(a) Books

Name of Faculty	Name of Book	Reference	Publisher
Dr. Ashok Kumar Nadda	Biogenic Silica: Fundamentals and Applications	978-1-83916-583-2	Royal Society of Chemistry UK
Dr. Ashok Kumar Nadda	Biopolymer Conjugates Industrial Applications	9783110785838	De Gruyter Germany

(b) Book Chapters

Name of Faculty	Book Chapter Title	Name of Book	Reference	Remark
Dr. Jata Shankar	Drug-Resistance Patterns in Opportunistic Aspergilli: A Molecular Perspective	Recent Advances in Human Fungal Diseases: Progress and Prospects	https://doi.org/10.1007/978-981-97-4909-6_17 , 401-425, 23/11/2024, ISBN 978-981-97-4909-6	

Dr. Jata Shankar	Unlocking Endophytic Mysteries by Leveraging Multi-omics Technologies	Multi-omics Approach to Investigate Endophyte Diversity	https://doi.org/10.1007/978-981-96-4100-0_6 , 17 May 2025, 53 (125–144) ISBN 978-981-96-4100-0	
Dr. Abhishek Chaudhary	Microbial Sensor: A tool for accelerating sustainable Technologies	Microbial Approach for sustainable green Technology	https://doi.org/10.1201/9781003407683 , ISBN 9781003407683	
Dr. Rahul Shrivastava, Dr. Ashok Kumar Nadda	Biogenic Silica: Sources, Structure and Properties.	Biogenic Silica: Fundamentals and Applications	B. Thakur, R. Shrivastava, V. K. Gupta, and A. K. Nadda, "Biogenic Silica: Sources, Structure and Properties," in Biogenic Silica: Fundamentals and Applications, 1st ed., United Kingdom: The Royal Society of Chemistry, 2024, pp. 1–41, ISBN: 978-1-83916-583-2. Doi: https://doi.org/10.1039/9781839169717-00001	The Royal Society of Chemistry, United Kingdom
Dr. Rahul Shrivastava, Dr. Ashok Kumar Nadda	Biogenic Silica in Ocean and Terrestrial Environments.	Biogenic Silica: Fundamentals and Applications	D. Suman, S. Kumar, A. K. Nadda, and R. Shrivastava, "Biogenic Silica in Ocean and Terrestrial Environments," in Biogenic Silica: Fundamentals and Applications, 1st ed., United Kingdom: The Royal Society of Chemistry, 2024, pp. 42–63, ISBN: 978-1-83916-583-2. Doi: https://doi.org/10.1039/9781839169717-00042	The Royal Society of Chemistry, United Kingdom

Dr. Raj Kumar	Recent advances in mammalian target of rapamycin targeted heterocyclic scaffolds as anticancer agents	Molecular Medicine and Biomedical Research in the Era of Precision Medicine	Vivek Panwar, Manjunath Ghate, Raj Kumar, Deepak Kumar, Chapter 17 - Recent advances in mammalian target of rapamycin targeted heterocyclic scaffolds as anticancer agents, Editor(s): Ranbir ChanderSobti, Douglas W. Wilson, Harpal S. Buttar, István G. Télessy, Aastha Sobti, Molecular Medicine and Biomedical Research in the Era of Precision Medicine, Academic Press, 2025, Pages 339-351, ISBN 9780443223006, https://doi.org/10.1016/B978-0-443-22300-6.00023-1 .	Elsevier
Dr. Tiratha Raj Singh	Proteogenomic Approaches for Disease Studies	Proteogenomics: Methods and Protocols	pp. 253–264, 2024, Suravajhala P. (Ed.), ISBN 978-1-0716-3532-4	Springer Nature
Dr. Tiratha Raj Singh	Systems Neuroscience	Systems Biology and In-Depth Applications for Unlocking Diseases	pp. 237–244, 2025, Singh T.R. (Ed.), ISBN 9780443259314	Academic Press (Elsevier)
Dr. Tiratha Raj Singh	Technologies, Computations, and Data Analysis for Next-Generation Sequencing	Next-Generation Sequencing Standard Operating Procedures and Applications	[Page no. to be updated], 2025, Singh T.R., Moussa A., Vannier B. (Eds.)	CRC Press

4.12 Guest Speakers/Lectures

(a) Guest Speakers

Speaker Name	Affiliation	Title of Talk	Dates
Dr. Anita Sardana	Assistant Professor (SG), Department of Computer Science & Engineering, JUIT	Journey from Idea to Patent	21 May 2025
Prof. Mukesh Singh	Senior Member IEEE, from the Department of Electrical and Instrumentation Engineering, TIET, Patiala	How to Write a Successful Research Project	03 May 2025
IPS Suhail Sharma	(IPS), First batch alumnus of JUIT & alumnus of the University of Oxford	He shared his experiences both at JUIT and Oxford and elaborated on facilities, work culture, study patterns, opportunities to students in University of Oxford.	18 Apr 2025
Prof. Sachidananda Mohanty	Member, University Grants Commission; National Fellow, Indian Institute of Advanced Study; Former Vice Chancellor, Central University of Odisha	Beyond NEP 2020 - Exploring Key Conceptual Categories	11 Apr 2025
Dr. Dinesh Gupta	ICGEB, New Delhi	Use of Artificial Intelligence in Biotechnology and Health Sciences	28 Feb 2025
Dr. Shashi Rhode	ICGEB, New Delhi	Industrial Application of Genetically Altered Algae in Carbon Capture and Sustainability	28 Feb 2025
Mr. Sudhir Maingi	Managing Director & CEO at Magbro Healthcare Private Ltd.	Industry-academic relationship	15 Feb 2025
Mr. Surya Uday	Head of Business Development & Operations, Minchy's Shimla	business development, industry innovations, and entrepreneurial opportunities in the food processing sector	29 Jan 2025
Mr. Akash Deep	Counter Intuitive Trainer-Ind-Swift Pvt Ltd Chandigarh	Industry-academic relationship	27 Sept 2024

(b) Lectures Delivered by Faculty

Name of Faculty	Designation of Faculty	Topic of Lecture	Dates	Venue
Rahul Shrivastava	Professor	STEM education in Schools	11 Jun 2025	CBSE District-Level Deliberation under the in-house training programme on STEM Education at Gurukul International Sr. Sec. School, Solan

Rahul Shrivastava	Professor	Career Prospects in Biotechnology, Microbiology and Bioinformatics	28 Feb 2025	St. Bede's College, Shimla
Dr. Raj Kumar	Assistant Professor	Integrative in silico approaches for the discovery of lead compounds in preclinical drug design	12 Feb 2025	Online, University of Illinois College of Medicine, 1601 Parkview Ave, Rockford, IL 61107, USA
Tiratha Raj Singh	Professor	Bioinformatics: Introduction, opportunities and applications	21 Apr 2025	DIET, Solan
Tiratha Raj Singh	Professor	Complex Biological Networks: Analysis and Annotations	08 Oct 2024	DIT University, Dehradun
Dr. Shikha Mittal	Assistant Professor	Identification of SNPs using Samtools and their annotation using SnpEff	29 May 2025	SAGE University, Indore
Dr. Poonam Sharma	Associate Professor	Career Options in Chemistry	19 Feb 2025	Govt. Degree College ChauraMaidaan , Shimla
Dr. Poonam Sharma	Associate Professor	Importance of Sustainable Chemistry	28 Aug 2024	Govt. Degree College Sanjauli, Shimla
Prof. Sudhir Kumar	Dean (R & I), Prof. Deptt. of BT and BI, (HOD, BT and BI at the time of event)	Career Counseling in Biotechnology	03 Feb 2025	Manzil program of DD Himachal, Shimla
Prof. Sudhir Kumar	Dean (R & I), Prof. Deptt. of BT and BI, (HOD, BT and BI at the time of the event)	Teaching Methods and Innovations	26 Sept 2024	Desh Bhagat University, Mandi Gobindgarh, Punjab
Prof. Sudhir Kumar	Dean (R & I), Prof. Dept. of BT and BI, (HOD, BT and BI at the time of event)	Innovative Skills in Teaching	27 Aug 2024	Punjabi University, Patiala
Prof. Sudhir Kumar	Dean (R & I), Prof., Dept. of BT and BI, (HOD, BT and BI at the time of event)	Sustainability and Waste Management	30 Nov 2024	International Conference conducted by RKMV, Shimla

Prof. Sudhir Kumar	Dean (R & I), Prof. Dept. of BT and BI, (HOD, BT and BI at the time of event)	Innovative Ways in Teaching	21 Nov 2024	UGCMalaviya Mission Teachers Training Program of Himachal Pradesh University
Prof. Sudhir Kumar	Dean (R & I), Prof. Dept. of BT and BI, (HOD, BT and BI at the time of event)	Career Counseling in Biotechnology	03 Dec 2024	Roots Country school situated at Baghi, Kotkhai, Shimla
Dr. Hemant Sood	Professor	Intellectual Property Rights: Management and Commercialization	15 May 2025	Govt. College Sanjauli, Shimla, on 15th May, 2025

4.13 Recognition & Awards

(a) By Faculty: Nil

Name of Faculty	Designation of Faculty	Award in full details	Date	Achievement

(b) Students

Name of Students, Enrollment No.	Program	Award in full details	Date	Achievement
Gunjan Dhupper (235011002)	M.Tech. Biotechnology	Best Product Display, 'Melanin as a versatile polymer,' in 8th International Conference on Advances in Biosciences and Biotechnology (ICABB), IIIT NOIDA	29-31 January 2025	Best Product Display
Gunjan Dhupper (235011002)		Extraction of melanin from <i>Apergillusniger</i> , a sustainable biopolymer for various applications in National Conference entitled 'Biotechnology, Biomanufacturing and Bioeconomy', organized by Thapar Institute of Engineering and Technology, Patiala, Punjab.	20-22 March 2025	Third Best Poster Presentation Award
Priya Gautam (236551)	Ph.D. Biotechnology	First prize in oral presentation in the Session-Microbial and Agricultural Biotechnology for 'Saccharomycesboulardii mediated inhibition of Aspergillus flavus' in the 8th International Conference on Advances in Biosciences and Biotechnology (ICABB), IIIT Noida	29-31 January 2025	First prize in oral presentation

Aditya Sharma (231011002)	B.Tech. Biotechnology	Cidering Competition organised by Synapse club Dept. of BT & BI	5 May 2025	1st Position
Devansh Kalia (231010001)	B.Tech. Bioinformatics	Hack the Sharks, IEEE JUIT-B, R & D Expo	18-20 April 2025	2nd Prize
Devansh Kalia (231010001)	B.Tech. Bioinformatics	BIOGENESIS, Adventum, JUIT	March 2025	1st Position
Khushi Singh (221011005)	B.Tech. Biotechnology	Badminton, Parakaram, JUIT	8-10 November 2024	2nd Prize
Khushi Singh (221011005)	B.Tech. Biotechnology	Table Tennis, Adventum, JUIT	8-10 November 2024	1st Position

4.14 Composition of Board of Studies (BOS)

S No	Name	Designation	Institution
1	Prof. Jata Shankar	Professor and Head, Dept. of BT & BI	JUITWaknaghat
2	Prof. (Dr.) Sudhir Kumar	Professor, Dept. of BT & BI and Dean R&I	JUITWaknaghat
3	Prof. (Dr.) Anil Kant	Professor, Dept. of BT & BI	JUITWaknaghat
4	Prof. (Dr.) TC Bhalla	Professor (Retd.), Dept. of BT	HPU, Shimla
5	Prof. GPS Raghava	Prof and Head, Dept of Computational Biology	IIIT-Delhi
6	Mr. Aditya Sahni	Alumni, Dept. of BT & BI,	Founder of ELEM India, Roorkee
7	Prof. (Dr.) Tiratha Raj Singh	Professor, Dept. of BT & BI	JUITWaknaghat
8	Prof. (Dr.) Hemant Sood	Professor, Dept. of BT & BI	JUITWaknaghat
9	Prof. (Dr.) Rahul Shrivastava	Professor, Dept. of BT & BI	JUITWaknaghat
10	Prof. (Dr.) Gopal Singh Bisht	Professor, Dept. of BT & BI	JUITWaknaghat
11	Dr. JitendraaVashistt	Associate Professor, Dept. of BT & BI	JUITWaknaghat
12	Dr. Garlapati Vijay Kumar	Associate Professor, Dept. of BT & BI	JUITWaknaghat
13	Dr. Poonam Sharma	Associate Professor, Dept. of BT & BI	JUITWaknaghat
14	Dr. Uday Banu M	Associate Professor, Dept. of BT & BI	JUITWaknaghat
15	Dr. Saurabh Bansal	Associate Professor, Dept. of BT & BI	JUITWaknaghat
16	Dr. Ashok Kumar Nadda	Assistant Professor, Dept. of BT & BI	JUITWaknaghat
17	Prof. (Dr.) Shruti Jain	Professor & Associate Dean, Dept. ECE	JUITWaknaghat
18	Prof. (Dr.) Sunil Kumar Khah	Coordinator IQAC	JUITWaknaghat

5. DEPARTMENT OF CIVIL ENGINEERING

5.1 Vision and Mission

- (a) **Vision.** To strive for excellence, knowledge creation and research contribution in the field of Civil Engineering and to serve the society and the nation with missionary zeal thus, to be recognized internationally as one of the best centers of research and education in all the areas of Civil Engineering.
- (b) **Mission**
- (i) **M1:** To provide a vibrant educational environment to the students in the competitive field of Civil Engineering keeping in view the emerging infrastructural needs of the country as well as the emphasis on IT-enabled Civil Engineering Profession.
 - (ii) **M2:** To keep pace with the advances in Civil Engineering techniques and technologies to provide training and skills for creative, innovative, and ethical attitude without losing academic focus.
 - (iii) **M3:** To provide state-of-the-art skills and knowledge in multi-disciplinary and multi-domain operations to the undergraduate and graduate students; so, they may emerge as leaders in the world of Civil Engineering and highly sought-after professionals to serve the nation and the society.

5.2. Faculty Details

S No	Faculty	Qualification	Specializations
1	Ashish Kumar	PhD	Scouring around Hydraulic Structures, Fluvial Hydraulics
2	Ashok Kumar Gupta	PhD	Constitutive Modeling of Geological Materials, Rock Mechanics and FEM
3	Saurabh Rawat	PhD	Slope Stability problems (including Seismic), Soil-nailing, Landfill Design
4	Amardeep	PhD	Transportation Engineering, Traffic Operation and Analysis, Pedestrian Behavior, Pavement Materials
5	Rishi Rana Kalia	PhD	Water and waste water treatment, Solid Waste Management, Life Cycle Assessment
6	Saurav	PhD	Concrete Rheology, Development of HPC with Alcolfine

7	Sugandha Singh	PhD	Structural dynamics, Earthquake engineering, Structural analysis, multi-hazard risk assessment.
8	Tanmay Gupta	PhD	Structural behavior of RCC and Composite Bridges, FEA of Concrete Structures, Seismic behavior of Concrete bridges.
9	Chandra Pal Gautam	MTech, PhD (Pursuing)	Rehabilitation of Structure, Concrete Technology, Fracture Mechanics
10	Kaushal Kumar	PhD	Structural Dynamics and Earthquake Engineering; Service Life Assessment of Structures, Structural Modeling and Analysis
11	Niraj Singh Parihar	PhD	Liquefaction, Slope Stability, Hazard Assessment
12	Akash Bhardwaj	MTech, PhD (Pursuing)	Urban Planning, Transportation Planning, Urban Housing, Water Treatment Processes

5.3. **Programs**

5.3.1 **Undergraduate Programs.** The undergraduate program has been specially designed keeping in view of the emerging civil infrastructure needs of the country as well as the modern emphasis on smart Civil Engineering courses. The curriculum has been prepared to keep it more practical and industry oriented without losing its academic focus. The department offers B.Tech in Civil Engineering. The course is designed to produce competent, industry-ready graduates with a strong foundation in engineering principles, design practices, and sustainability-driven solutions. Established under the Department of Civil Engineering, the program blends theoretical learning with practical experience, preparing students to address modern infrastructure challenges and contribute to nation-building in a technologically advanced and environmentally responsible manner. The purpose of this program is to produce undergraduates who are fully prepared to work in an engineering position and having cutting edge expertise in the field of structural, geotechnical, environmental, transportation, and water resources engineering.

5.4 **Post Graduate Programs**

5.4.1 **MTech (Construction Management).** The program provides preparation for effective leadership in the field which includes light (residential and small office buildings) and heavy (large office buildings and facilities, infrastructure) projects. It aims at educating the students with regulatory, insurance, management, safety, planning tools, estimation and environmental aspects of management necessary for overall planning and control of construction projects. The course helps in gaining innovative problem-solving skills to determine costs and apply time-value-of-money concepts to effectively evaluate alternatives.

5.4.2 MTech (Environmental Engineering). MTech in Environmental Engineering is a two-year post-graduate program aimed to give insights on the topics of advanced process of environmental policy planning and how to ensure efficient and timely implementation of sustainable environment projects. Students are imparted advanced learning in Process design in Environment Engineering, Industrial wastewater treatment, Environmental law and Policy, Risk Management, Optimization Techniques, Environmental Policy Management and treatment facilities. The students are exposed to practical learning through Industry-academia interaction as well as research work, by working on real-world projects in the field of environmental engineering.

5.4.3 MTech (Structural Engineering). M.Tech. in Structural Engineering is an integral part of engineering stream since 2012. Under this course, study is focused on scientific principles to design and build various structures such as multi-storey buildings, bridges, tunnels, dams etc. and other infrastructure required to conduct the operations effectively. It is a specialized field of engineering giving emphasis on a particular area of applied mathematics. Today primary, secondary and tertiary construction sectors are heavily dependent on structural engineering. Students after B.E. / B.Tech(Civil Engineering) can take an entry to study this course. The quality and standards of technical courses taught are determined by the concerned regulatory bodies from time to time, with an emphasis to incorporate latest design and analysis software such as STAAD pro, Abaqus, Ansys, SAP, Revit, ETABS etc. Students who enrich themselves to have a plethora of opportunities to work in structural engineering sectors with attractive package will definitely find this course of interest.

5.4.4 PhD Program. The Department carries out research and development activities in the three broad thrust areas: Ground Improvement and Slope Stability, Municipal Solid Waste Management & Air Quality Monitoring, and Construction Materials & Structural Dynamics. The main area of research is Soil Nailing and Helical Soil Nailing, slope Stability Analysis and Mitigation, Stone Columns for Ground Improvement, Assessment of Methane and energy Potential from different types of Biodegradable Waste, Environmental Monitoring and Pollution, Enhancing the Strength Properties of Recycled Aggregate Concrete, Innovative Solution to Prevent the Dampness in Concrete Structure, Analysis of Special Geometrical Layout for Bridges, Seismic Behaviour of Concrete Bridges, Low-Cost Material Utilization in Construction Blocks, Dynamic analysis of structures subjected to extreme loading, and earthquakes, Seismic evaluation of existing buildings, Active and passive control of tall structures against earthquakes, Smart structures.

5.5 Lab Facilities

New Equipment

S. No	Name of Apparatus	Quantity	Lab
1	Transit vernier theodolite	3	Survey Laboratory

2	Benkelman Beam	1	Highway Engineering Laboratory
3	HP Pro Tower 400 G9 Desktop	10	Cad Lab
4	Digital Moisture Meter	1	Geotechnical Engineering Laboratory
5	Soil Permeability test apparatus	1	Geotechnical Engineering Laboratory
6	Rapid Moisture Meter	1	Geotechnical Engineering Laboratory
7	Vicat Apparatus	4	Concrete Technology Laboratory
8	Accelerated Curing Tank	1	Concrete Technology Laboratory
9	Turbidity Meter	1	Environmental Engineering Laboratory
10	Conductivity Meter	1	Environmental Engineering Laboratory
11	Portable pH meter	1	Environmental Engineering Laboratory

5.6 Lab Staff

Name	Designation	Qualification
Mr Jaswinder Singh	Sr. Lab Technician	Diploma, Civil Engineering
Mr Amar Kumar	Sr. Lab Technician	Diploma, Civil Engineering
Mr Rajesh Sahu	Lab Technician	Diploma in CSE Engineering
Mr Pradeep Kumar	Jr Lab Assistant	BSc
Mr Shiva	Lab Boy	10 th class

5.7 Labs

1	Chemistry Laboratory
2	Civil Software laboratory
3	Engineering Graphics laboratory
4	Workshop Practices Laboratory
5	Fluid Mechanics Laboratory
6	Concrete Technology Laboratory
7	Highway Engineering Laboratory
8	Environmental Engineering Laboratory (shared with Chemistry Laboratory)
9	Geotechnical Engineering Laboratory
10	Structural Mechanics Laboratory
11	Survey Laboratory (storage only)
12	Fluvial Hydraulics & Research Lab

SNo	List of Major Equipments
1.	Triaxial Shear Test Apparatus
2.	Los angles Abrasion testing machine
3.	Ductility testing machine
4.	Laboratory C.B.R. Apparatus
5.	Aggregate crushing value Apparatus 30 cm
6.	Concrete flow table
7.	Direct Shear Test Apparatus
8.	Benkelman Beam, Digital
9.	Marshall Test Apparatus (Digital)
10.	Automatic Compactor for Marshall mould of 100mm diameter
11.	Digital Humidity Chamber/Cabinet
12.	Electronic Total Station SET 610
13.	Accelerated Curing Tank
14.	Universal Testing Machine
15.	Respirable Dust Sampler
16.	Total Station
17.	Spectrophotometer
18.	Multiparameter Testing Apparatus (pH/BOD)
19.	Unconfined Compression test Apparatus
20.	Dynamic Cone Penetration Test Apparatus (DCPT)
21.	Triaxial Electronic Conversion Kit
22.	Hobart Mixer MADE IN U.S.A./GERMANY
23.	Flexural Testing Machine capacity – 20 ton (Electrically operated)
24.	Compression Testing Machine capacity – 200-ton Digital (Electrically Operated)
25.	Lathe Machine
26.	Milling Machine
27.	Furnace (Maximum Temperature 1200 °C)
28.	10m long 0.75m wide and 0.6m deep rectangular open channel flume
29.	Uniaxial Shake Table
30.	Acoustic Doppler velocimeter
31.	Triaxial Test Pure Pressure and Saturation Tester
32.	Core Cutter Diesel Engine Operated
33.	Dell Workstation
34.	Ultrasonic Pulse Velocity Tester
35.	Concrete Test Hammer
36.	Air Flow Meter
37.	Cover Meter / Rebar
38.	Half Cell Potential Tester
39.	Stone cutter

5.8 List of Software

SNo	Name of Software	Version
1	AutoCAD Student	2022
2	Autodesk Revit	2022
3	Autodesk Software Suite includes about 100 Software	2020 or later
4	STAAD.pro	CONNECT Edition V22
5	STADD Foundation/ Advance Foundation	CONNECT Edition V22
6	Bentley S/W Suite includes about 200 software's like Water Gams, Water CAD etc.	CONNECT Edition V22
7	MX ROAD / OPEN ROADS	CONNECT Edition V22
8	PRIMAVERA	P6.1
9	Geo5	V18
10	ESTIMATOR	2
11	ANSYS	12.1
12	PLAXIS 2D	2010
13	SIMULIA Academic includes SIMULIA Abaqus, SIMULIAInsight, SIMULIA Tosca &SIMULIAfe-Safe	2019
14	MS PROJECT	2003
15	ETABS Ultimate (10 Users)	V-21

5.9 Equipments



1. Jar Test Apparatus 2. Hot Bath Apparatus 3. Respirable Dust Sampler 4. COD Digester



5. Civil Engineering Software Lab 6. Ductility Apparatus 7. CBR Testing Machine 8. Bitumen Extractor/ Marshall Mould Sampler



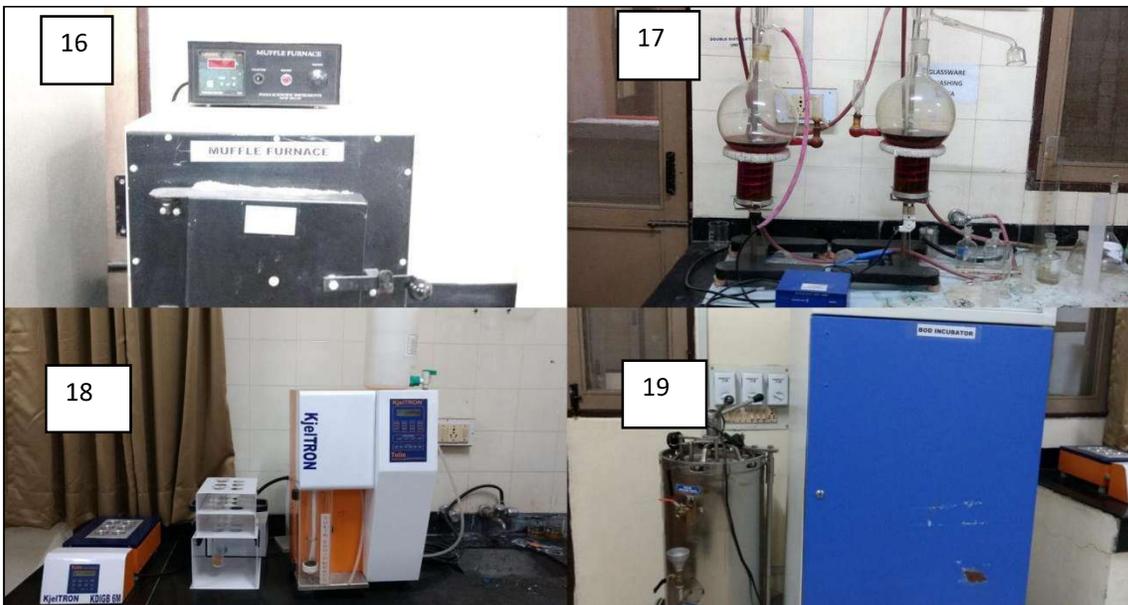
9. Compression Testing Machine
11. Soil Pulling Apparatus

10. Flexural Strength Testing Apparatus
12. Humidity Apparatus



13. Direct Shear Test Apparatus
15. Unconfined Compression Machine

14. Triaxial Shear Test Apparatus



16. Muffle Furnace
18. Kjeldahl Nitrogen Apparatus

17. Water Distillation Setup
19. BOD Incubator



20. Bitumen Mixer/ Impact Testing Machine
 22. Los angles Abrasion testing machine

21. Hobart Mixer
 23. Marshall Testing Apparatus



24. Open Channel Flume 25. Universal Testing Machine

26 Apparatus for conducting orifice experiments (Cd, Cc, Cv) 27. Soil Pulling Machine



28. Biodegradation Settlement Analyzer **29.** Consolidation Apparatus **30.** Lathe machine/ Milling Machine **31.** Oven



32. Biogas Incubator **33.** Total Station/ Theodolite/ Auto Level/ Dumpy Level
34. Open Channel Flume **35.** COD Digester/ pH Meter/ Conductivity Meter/ Turbidity Meter



36. Core Cutter Diesel Engine 37. Impact of jet 38. Triaxial test pure pressure and saturation tester

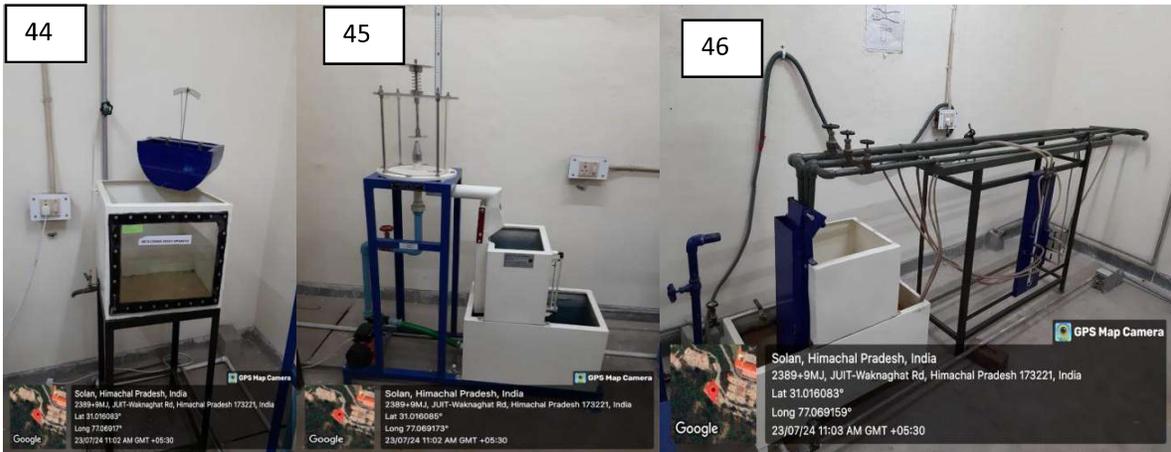


39. Cover meter/ rebar 40. Ultrasonic pulse velocity tester 41. Half cell potential tester



42. Minor Losses

43. Bernoulli's Apparatus



44. Meta Ceramic Apparatus

45. Impact of Jet Apparatus

46. Frictional Losses Height Apparatus



47. Transit vernier theodolite apparatus



48. Benkelman Beam



49. Soil Permeability test apparatus



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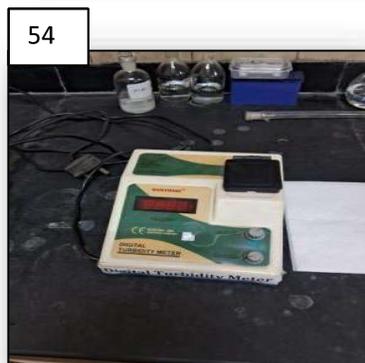
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50. Digital Moisture Meter 51. Rapid Moisture Meter 52. Accelerated Curing Tank
53. Soil Permeability test apparatus 54. Turbidity Meter 55. Conductivity Meter

5.10 Patents

S.No.	Patent No. and Date of Grant	Application No.	Title	Department and Inventors
1.	202411057362 9 th August, 2024 (Published)	202411057362	Next-Gen Extendable Dual Sun Visor System for Commercial Vehicles	Dr. Saurav Kumar

2.	202411059294 23 rd August, 2024 (Published)	202411059294	Smart Mobile Cover System With AI-Driven Safety Features and Real-Time Protective Mechanisms	Dr. Saurav Kumar
3.	202311014587 6 th September, 2024 (Published)	202311014587	Microfine Slag Amended Blue Leather Waste Ash As A Novel Material Of Treating Expansive Soils	Dr. Niraj Singh Parihar and Prof. Ashok Kumar Gupta
4.	202511013466 28 th February, 2025(Published)	202511013466	A System and a method to Predict Soil Liquefaction Risk using Large Language Model	Prof. Ashok Kumar Gupta & Dr. Saurabh Rawat

5.11 Research Projects Sanctioned during the Academic Year/In Progress

SNo	Name of Faculty	Project title	Funding Agency	Amount sanctioned	Duration	Current Status
1.	Prof. Ashok Kumar Gupta, Dr. Tanmay Gupta, Dr. Saurabh Rawat,	Geological Hazards mitigation using stone concrete block retaining walls and helical soil nailing	State Disaster Management Authority (SDMA), Govt. of Himachal Pradesh, HP	25 lakhs	36 months	Ongoing
2.	Prof. Ashok Kumar Gupta, Prof. Vivek	Intelligent Evaluation and	DRID	38 lakhs	24 months	Ongoing

	Sehgal, Prof. Ashish Kumar, Dr. Saurabh Rawat, Dr. Tanmay Gupta, Mr. Chandra Pal Gautam, Dr. EmjeePuthoora n, Mr. Janardan Verma, Mr. SK Sharma, Dr. Yash Pal Vasistha	Rehabilitation of Structures				
3	Dr. Sudhir Kumar (PI), Dr Garlapati Vijay Kumar (Co-PI), Dr. Ashish Kumar (Co-PI)	Production and Phyco-upgradation of Biogas from pine straw co-digested with food waste.	DRID	0.5	24 Months	ongoing

5.12 Conferences, Seminars and Workshops/Faculty development program

5.12.1 Conferences

Conferences Organized

Dates	Subject	Venue/Participations	Faculty Name	Remarks
4 th -5 th October, 2024	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT, hybrid mode	Prof. Ashok Kumar Gupta, Prof. Ashish Kumar, Dr. Saurav & Dr. Tanmay Gupta	Selected papers published with E3S Web of Conferences.
4 th -5 th October, 2024	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Mr. Akash Bhardwaj	Session Chair

5 th October, 2024	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Dr. Kaushal Kumar	Session Chair
5 th October, 2024	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Dr. Rishi Rana Kalia	Session Chair
6 th – 8 th March, 2025	7 th IEEE International Conference on Signal Processing, Computing and Control (ISPCC-2025)	Department of Electronics & Communication Engineering JUIT	Prof. Ashish Kumar	Session Chair
16 th May, 2025	International Conference on Innovation and Sustainability in Civil Engineering (ISCESTI 2025)	Department of Civil Engineering NIT Patna	Dr. Kaushal Kumar	Session Chair

Conferences Attended

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
30 th August, 2024	3 rd International Conference On Advancement In Computation And Computer Technologies	Chandigarh University, Gharuan	Dr. Rishi Rana Kalia	Attended online
13 th September, 2024	National Conference on Jute Geotextile	Jute Geotextiles In Civil Engineering: Sustainable Solutions For The Future	Dr. Niraj Singh Parihar	Attended online
4 th -5 th October, 2025	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Dr. Tanmay Gupta	Published 2 papers, Organized the conference, 1 book published

4 th -5 th October, 2024	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Mr. Akash Bhardwaj	Attended and presented paper
4 th -5 th October, 2024	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Dr. Rishi Rana Kalia	Attended and presented paper
4 th -5 th October, 2024	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Dr. Kaushal Kumar	Attended and presented paper
4 th -5 th October, 2024	International Conference on Civil, Materials and Environment for Sustainability (ICCMES 2024)	Department of Civil Engineering, JUIT	Dr. Niraj Singh Parihar	Attended and presented paper
15 th October, 2024	5 th International Conference on Trends & Recent Advances in Civil Engineering (TRACE-2024)	Amity University Uttar Pradesh, Noida	Dr. Kaushal Kumar	Attended online and presented Paper
22 nd – 23 rd November, 2024	3 rd International Conference on Recent Advances in Sustainable Environment (RAiSE 2024)	HPU Shimla	Dr. Kaushal Kumar	Attended online and presented paper
22 nd – 23 rd November, 2024	3 rd International Conference on Recent Advances in Sustainable Environment (RAiSE 2024)	HPU Shimla	Dr. Rishi Rana Kalia	Attended online and presented paper

9 th February, 2025	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025)	ASCE India Section Northern Region & PEC, Chandigarh	Dr. Kaushal Kumar	Attended online
6 th -8 th March, 2025	7th IEEE International Conference on Signal Processing, Computing and Control (ISPCC-2025)	Department of Electronics & Communication Engineering JUIT	Dr. Tanmay Gupta	Attended
8 th March, 2025	7th IEEE International Conference on Signal Processing, Computing, and Control (ISPCC-2k25)	Department of ECE, JUIT	Dr. Kaushal Kumar	Attended

5.12.2 Seminars

Seminars Organized

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
22 nd November, 2024	The 2050 Energy-Mix for Sustainability"	Civil Engineering Consortium (CEC), Department of CE in collaboration with the JUIT Alumni Cell (JAC), JUIT	Prof. Ashish Kumar, Dr. Amardeep Dr. Saurabh Rawat, Mr. Chander Pal Gautam	Prof. Ashish Kumar (Co-ordinator)
28 th November, 2024	Patents & Innovation in Civil Engineering	Civil Engineering Department, JUIT	Prof. Ashish Kumar and Dr. Saurabh Rawat	In collaboration with IPR cell, JUIT

Webinars Organized

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
28 th March, 2025	Response of reinforced concrete underground tunnels under impact load of varying drop height	Online- Civil Engineering Department, JUIT	Dr. Niraj Singh Parihar	IGS Shimla chapter

Seminars Attended

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
5 th -9 th August, 2024	Field Oriented challenges in Civil Engineering	NIT Jamshedpur	Dr. Niraj Singh Parihar	Attended online
23 rd August, 2024	Forensic Geotechnical Engineering	IIT Roorkee/Student Chapter Roorkee	Dr. Niraj Singh Parihar	Attended online
10 th September, 2024	Engineering the future- Progressive practices in geotechnical engineering	IIT Roorkee/Student Chapter Roorkee	Dr. Niraj Singh Parihar	Attended online
11 th September, 2024	Tunneling: Advanced data analysis to optimize underground construction	SAALG Geomechanics	Dr. Niraj Singh Parihar	Attended online
14 th September, 2024	Slope Stability Analysis using midas GTS NX - IGS Kolkata	IGS Kolkata	Dr. Rishi Rana Kalia	Attended online
18 th September, 2024	Sensitization and training of councillors on substance use prevention	Online (Ministry of Higher Education)	Dr. Niraj Singh Parihar	Attended online
27 th September, 2024	The Importance of Life Cycle Assessment (LCA) in Different Sectors"	SIPL Pvt. Ltd, Gurgaon	Dr. Rishi Rana Kalia	Attended online
4 th -13 th November, 2024	FE modelling of hydropower structures	MIDAS (Online)	Dr. Niraj Singh Parihar	Attended online

22 nd November, 2024	The 2050 Energy-Mix for Sustainability"	Civil Engineering Consortium (CEC), Department of CE in collaboration with the JUIT Alumni Cell (JAC), JUIT	Dr. Rishi Rana Kalia	Attended online
28 th November, 2024	Patents & Innovation in Civil Engineering	Civil Engineering Department, JUIT	Mr. Akash Bhardwaj	Attended
28 th November, 2024	Patents & Innovation in Civil Engineering	Civil Engineering Department, JUIT	Dr. Rishi Rana Kalia	Attended
10 th January, 2025	Geohorizons: Geotechnical Innovation and sustainable development	IGS Indore (Online)	Dr. Niraj Singh Parihar	Attended online
7 th February, 2025	Rockfall and debris flow- Mitigation Measures	Macaferrri (Online)	Dr. Niraj Singh Parihar	Attended online
7 th February- 9 th May, 2025	Earth engage: Bridging the gap between academia and industry (Lecture series)	IGS student chapter Roorkee	Dr. Niraj Singh Parihar	Attended online
7 th February- 9 th May, 2025	Earth engage: Bridging the gap between academia and industry (Lecture series)	IGS student chapter Roorkee	Dr. Rishi Rana Kalia	Attended online
20 th February, 2025	Sustainable procurement in construction Industry" with SIPL Pvt. Ltd	SIPL Pvt. Ltd, Gurgaon	Dr. Rishi Rana Kalia	Attended online
11 th April, 2025	Earth Engage: Case studies of geotechnical challenges in marine geotechnical engineering	IGS Roorkee	Dr. Niraj Singh Parihar	Attended online

5.12.3 **Workshops****Workshops Organized**

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Participatio n</u>	<u>Faculty Name</u>	<u>Remarks</u>
22 nd –27 th July, 2024	One Week Online Workshop on Disaster Risk Assessment	Civil Engineering Department, JUIT	Online	Dr. Sugandha Singh and Dr. Niraj Singh Parihar	Organized by Centre for Structural Engineering and Disaster Management, CED In partnership with Indian Institute ofTechnology, Mandi, and Indian Geotechnical Society, Shimla Chapter
28 th August, 2024	Workshop on Awareness of Organ Donation	Civil Engineering Department, JUIT	Offline	Dr. Rishi Rana Kalia	Organized in collaboration with Environment, Ecology and Health Club, JYC and DRISHTI, SIGHT IEEE JUIT SB
24 th –27 th Septemb er, 2024	4 days Training on School Safety and Security for Junior Engineers	Civil Engineering Department, JUIT	Offline	Dr. Tanmay Gupta, Dr. Niraj Singh Parihar & Mr. Akash Bhardwaj	In collaboration with District Institute of Education and Training (DIET Shimla)
14 th -16 th October, 2024	3 days Master trainer program for hazard resistant Construction Practices	Civil Engineering Department, JUIT	Offline	Dr. Tanmay Gupta	In collaboration with DDMAshimla Engineers from Govt organization

6 th -8 th November, 2024	3 days Master trainer program for hazard resistant Construction Practices	Civil Engineering Department, JUIT	Offline	Dr. Tanmay Gupta	In collaboration with DDMAshimla Engineers from Govt organization
20 th -22 nd November, 2024	Eco Innovate: Sustainable innovation for a cleaner planet	Civil Engineering Department, JUIT	Online	Dr. Rishi Rana Kalia	Organized in collaboration with IIC, IEEE JUIT SPS Chapter, HSS , CE Department
14 th January, 2025	Familiarization Exercise (FAMEx) on disaster preparedness	Civil Engineering Department, JUIT	Offline	Prof. Ashish Kumar &Dr. Tanmay Gupta	In collaboration with Disaster14th Battalion NDRF and DDMA Solon
22 nd -24 th January, 2025	3 days Master trainer program for hazard resistant Construction Practices	Civil Engineering Department, JUIT	Offline	Dr. Tanmay Gupta &Dr. Saurav	In collaboration with DDMA Solon Engineers from Govt organization(34 Engineers)
25 th - 28 th February, 2025	Ideathon on "Innovate to Heal: Preventive and Curative Healthcare for Future	Civil Engineering Department, JUIT	Online	Dr. Rishi Rana Kalia	Organized in collaboration with IIC at JUIT in collaboration with department of Civil Engineering, Humanities, TIEDC cell and NSS organized
19 th March – 2 nd April 2025	15 Days ETABS Online Training Program Report	Civil Engineering Department, JUIT	Online	Dr. Tanmay Gupta	In collaboration with CSI Engineering Software Pvt. Ltd., India.

Workshops Attended

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
22 nd - 26 th July, 2024	One Week Online Workshop on Disaster Risk Assessment	Department of Civil Engineering, JUIT	Dr. Tanmay Gupta	Attended and delivered expert lecture
July- October, 2024	Bridge Engineering	Online, NPTEL Swayam	Dr. Kaushal Kumar	Participated
July- October, 2024	Advanced Reinforced Concrete Design	Online, NPTEL Swayam	Dr. Kaushal Kumar	Participated
22 nd -26 th July, 2024	One Week Online Workshop on Disaster Risk Assessment	Department of Civil Engineering, JUIT	Dr. Rishi Rana Kalia	Attended online
22 nd -26 th July, 2024	One Week Online Workshop on Disaster Risk Assessment	Department of Civil Engineering, JUIT	Mr. Akash Bhardwaj	Attended online
22 nd July, 2024	Ignite 2024	TIEDC Cell, JUITWaknaghat, India	Dr. Rishi Rana Kalia	Attended online
22 nd - 26 th July, 2024	One Week Online Workshop on Disaster Risk Assessment	Department of Civil Engineering, JUIT	Dr. Kaushal Kumar	Attended online
5 th - 9 th August, 2024	Applications of Geosynthetic in Civil Engineering (AGCE-2024)	Department of Civil Engineering, IGIT Sarang, Odhisha	Dr. Tanmay Gupta	Attended online
23 rd August, 2024	1st National Space Day Celebration	JUIT	Dr. Rishi Rana Kalia	Attended online
29 th August, 2024	One day workshop on "Optimizing ESG Practices through Materiality and Double Materiality Perspectives", SIPL Pvt. Ltd	SIPL Pvt. Ltd, Gurgaon	Dr. Rishi Rana Kalia	Attendedonline
3 rd – 27 th Septem ber, 2024	Short Term Course on 'MANAGERIAL SKILLS'	NITTTR, Chandigarh	Dr. Rishi Rana Kalia	Attended online
14 th Septem ber, 2024	Slope stability analysis using MIDAS GTXNX	IGS Roorkee Chapter	Dr. Niraj Singh Parihar	Attended online

16 th -10 th October, 2024	Tech-Knowledge Transfer between Academia and Industry on Civil Structures (TK-AICS-2024)	Faculty of Engineering Technology and Computing Department of Civil Engineering, DeshBhagat University, Punjab	Dr. Saurav	Attended online
28 th Novem ber, 2024	Patents & Innovation in Civil Engineering	Department of Civil Engineering, JUIT	Dr. Kaushal Kumar	Attended
28 th Novem ber, 2024	Workshop on Patents & Innovation in Civil Engineering	Department of Civil Engineering, JUIT	Dr. Rishi Rana Kalia	Attended
17 th - 21 st February, 2025	Interdisciplinary Approaches in Geotechnical and Geoenvironmental Engineering	HBTU Kanpur	Mr. Akash Bhardwaj	Attended online
17 th - 21 st February, 2025	Interdisciplinary Approaches in Geotechnical and Geoenvironmental Engineering	HBTU Kanpur	Dr. Kaushal Kumar	Attended online
17 th -21 st February, 2025	Interdisciplinary approaches in geotechnical and geo-environmental engineering	HBTU Kanpur	Dr. Niraj Singh Parihar	Attended online
28 th February,2 025	Course on Condition Evaluation of Existing Structures - Concrete and Steel	ASCE	Dr. Kaushal Kumar	Attended online
1 st - 30 th March, 2025	Certificate Course on AI-ML	Department of CSE&IT, JUIT	Dr. Kaushal Kumar	Participated
19 th March- 2 nd April, 2025	Etabs Online Training Program	Department of Civil Engineering, JUIT	Mr. Akash Bhardwaj	Attended
19 th March- 2 nd April, 2025	Etabs Online Training Program	Department of Civil Engineering, JUIT	Dr. Kaushal Kumar	Attended
19 th March- 2 nd April, 2025	Etabs Online Training Program	Department of Civil Engineering, JUIT	Dr. Rishi Rana Kalia	Attended

19 th -25 th March, 2025	Etabs Online Training Program	Department of Civil Engineering, JUIT	Dr. Niraj Singh Parihar	Attended
28 th March, 2025	Expert lecture on underground tunneling	Department of Civil Engineering, JUIT	Dr. Rishi Rana Kalia	Attended
4 th - 6 th June, 2025	Three-Day National Workshop on Data Analysis Skills Using SPSS Software	Department of Travel and Tourism Management, University of Ladakh	Dr. Rishi Rana Kalia	Attended online
9 th -18 th June, 2025	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-MMTTC	Shri Mata Vaishno Devi University, Katra	Dr. Amardeep	Attended online

5.12.4 Faculty Development Program –

FDPs Organized

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Participation</u>	<u>Faculty Name</u>	<u>Remarks</u>

FDPs Attended

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
5 th - 10 th August, 2024	One week FDP Sustainable Construction Practices	Civil Engineering Department, KL University, KoneruLakhmai ah Education Foundation	Dr. Tanmay Gupta	Attended Online
2 nd -6 th September, 2024	MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications	Department of ECE, JUIT	Dr. Kaushal Kumar	Attended

2 nd – 6 th , September, 2024	MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications	Department of ECE, JUIT	Dr. Rishi Rana Kalia	Attended
21 st -25 th October, 2024	ICT Course on Remote Sensing, GPS and GIS	NITTTR, Chandigarh	Dr. Rishi Rana Kalia	Attended Online
3 rd -7 th , February 2025	One Week Online Short Term Course/Faculty Development Program (STC/FDP) on Microplastic Pollution: Sources, Analysis and Remediation	NIT, Jalandhar	Dr. Rishi Rana Kalia	Attended Online
10 th -15 th February, 2025	FDP on Technological Innovations in Climate Change Adaption for Sustainability (TICCAS – 2025)	MMU, Ambala Haryana	Mr. Akash Bhardwaj	Attended Online
10 th -15 th February, 2025	FDP on Technological Innovations in Climate Change Adaption for Sustainability (TICCAS – 2025)	MMU, Ambala Haryana	Dr. Kaushal Kumar	Attended Online
10 th -15 th February, 2025	FDP on Technological innovations in climate change adaptations for sustainability	Maharshi Markandeshwar Engg. College Ambala (ATAL FDP)	Dr. Niraj Singh Parihar	Attended Online
17 th – 22 nd February, 2025	Short Term Programme on Remote Sensing, GIS & Disaster Management	Malaviya Mission Teacher Training Centre, H.P. University, Shimla	Dr. Rishi Rana Kalia	Attended Online
10 th – 14 th April, 2025	One Week Online Short-Term Course on Advancing Real-Time IoT Applications with Machine Learning and Deep Learning	NIT, Jalandhar	Dr. Rishi Rana Kalia	Attended Online
22 nd - 30 th April, 2025	NEP 2020 UGCMalaviya Mission Teacher Training Centre (MMTTC) - Faculty Development Program (FDP)	8 Days Online NEP Orientation & Sensitization Programme, HPU, Shimla	Dr. Rishi Rana Kalia	Attended Online

5.13 Publications

Journal Publications

Name of Faculty	Title of Article	Name of Journal	Reference	Citation
Prof. <u>Ashok Kumar Gupta</u>	<u>Exploiting the synergy of SARIMA and XGBoost for spatiotemporal earthquake time series forecasting.</u>	Earth Surface Processes and Landforms	doi.org/10.1002/esp.5992	1
Prof. <u>Ashok Kumar Gupta</u>	A semantic segmentation framework with UNet-pyramid for landslide prediction using remote sensing data	Nature portfolio, Scientific reports	doi.org/10.1038/s41598-024-79266-6 .	6
Prof. <u>Ashok Kumar Gupta</u>	Exploiting the synergy of SARIMA and XGBoost for spatiotemporal earthquake time series forecasting.	Earth Surface Processes and Landforms, 49(14), 4724–4742	https://doi.org/10.1002/esp.5992	2
Prof. <u>Ashok Kumar Gupta</u>	Earthquake prediction optimization using deep learning hybrid RNN-LSTM model for seismicity analysis, Soil Dynamics and Earthquake Engineering	Soil Dynamics and Earthquake Engineering	https://doi.org/10.1016/j.soildyn.2025.109432	2
Prof. <u>Ashok Kumar Gupta</u>	Optimizing corrosive inhibitors in reinforced concrete: A systematic review using algorithmic approaches.	Ukrainian Scientific Content Initiative	https://doi.org/10.1016/B978-0-443-29162-3.00012-5	0

Prof. <u>Ashok Kumar Gupta</u>	Hybrid CatBoost and SVR Model for Earthquake Prediction Using the LANL Earthquake Dataset.	Informatica (Slovenia), 49 (2025), pp. 93-110	https://www.informatica.si/index.php/informatica/article/view/6524	2
Prof. <u>Ashok Kumar Gupta</u>	The Nexus of Soil Stabilization and Biomedical Waste Recycling: Lime, RHA, And Microfine Slag Applications.	African Journal of Biomedical Research, 27 (4S), pp. 7955-7964	https://doi.org/10.53555/AJBR.v27i4S.4474	0
Dr. Tanmay Gupta	Multi-sectoral impacts of the 2023 disasters in Himachal Pradesh and mitigation plans.	Infrastructure Asset Management,	DOI: https://doi.org/10.1680/jinam.24.00025	0
Dr. Amardeep	Failure Analysis of Flexible Pavement and Preventive Measures	Journal of Failure and Prevention	https://doi.org/10.1007/s11668-025-02150-6	3
Dr. Amardeep	Incorporating Recycled plastic Aggregates with Coarse and Fine Aggregates for Enhancing the Properties of Concrete	Innovative Infrastructure Solutions	https://doi.org/10.1007/s41062-025-01876-4	0
Dr. Amardeep	Innovative Utilization of Biomedical Waste: Surgical Gloves as a Sustainable Modifier for Bitumen in Road Construction	African Journal of Biomedical Research	doi.org/10.53555/AJBR.v27i4S.4473	0
Dr. Saurav	Exploring Green Inhibitors from Microbes and Plants: Current Trends and Future	Journal of Bio-and Tribo-Corrosion	https://doi.org/10.1007/s40735-025-00977-y	1

	Perspectives in Sustainable Approach.			
Dr. Kaushal Kumar	Innovative Concrete Materials: Utilizing Crushed Bricks for Aggregate Replacement	International Journal of Emerging Trends in Research	ISSN No.: 2455-6130 Special Issue – RAISE2024, 2025, pp. 11-20	0
Dr. Rishi Rana Kalia	Innovative Concrete Materials: Utilizing Crushed Bricks for Aggregate Replacement	International Journal of Emerging Trends in Research	ISSN No.: 2455-6130 Special Issue – RAISE2024, 2025, pp. 11-20	0
Dr. Rishi Rana Kalia	Innovative Concrete Materials: Utilizing Crushed Bricks for Aggregate Replacement	International Journal Of Emerging Trends In Science And Technology.	https://www.researchgate.net/publication/390371379 Innovative Concrete Materials Utilizing Crushed Bricks for Aggregate Replacement	0
Dr. Rishi Rana Kalia	Global Perspectives on Sustainability and Sustainable Development Research	International Journal of Emerging Trends in Research	https://www.researchgate.net/publication/394082627 International Journal of Emerging Trends in Research	0
Dr. Kaushal Kumar	Global Perspectives on Sustainability and Sustainable Development Research	International Journal of Emerging Trends in Research	https://www.researchgate.net/publication/394082627 International Journal of Emerging Trends in Research	0
Dr. Rishi Rana Kalia	Exploring the role of fungal endophtes for the production of anti-cancerous compound podophyllotoxin from podophylliumhexandrum	The Progress Journals	https://www.theprogressjournals.com/admin_panel/Gijournals/journalsfile/14505102024054226paperforjuly-septemberissue1.pdf 2024 TPJ VOLUME 2, ISSUE 3 July - September ISSN – 2584- 0517	0

5.13.1 **Books/Book Chapters Published**

Name of Faculty	Title of Book Chapter	Name of Book	Reference	Remark
Dr. Amardeep	Urban Expansion and Traffic Congestion A Geographical Study of Shimla	Sustainable Development Using Geospatial Techniques	https://novel-coronavirus.onlinelibrary.wiley.com/doi/epdf/10.1002/9781394214426.ch5	DOI/epdf/10.1002/9781394214426.ch5
Dr. Saurav	Drug-Resistance Patterns in Opportunistic Aspergilli: A Molecular Perspective	Recent Advances in Human Fungal Diseases	https://link.springer.com/chapter/10.1007/978-981-97-4909-6_17	<u>10.1007/978-981-97-4909-6_17</u>
Dr. Saurav	Advanced Finite Element Analysis in Civil Engineering	Advanced Finite Element Analysis in Civil Engineering	ISBN: 978-93-6736-274-7	
Dr. Rishi Rana Kalia	Classification of Waste Objects Through Computer Vision Techniques for Efficient Waste Management	Waste Management: From Trash to Treasure.	CRC Press (Taylor & Francis) Pages, 180-202.	https://www.researchgate.net/publication/391248158_Classification_of_Waste_Objects_Through_Computer_Vision_Techniques_for_Efficient_Waste_Management

Conference Publications

Name of Faculty	Title of Article presented	Name of conference	Reference	Dates
Prof. Ashish Kumar	Biogas Slurry as a Cultivation Media for	International Conference on Innovations in Biotechnology for	https://www.researchgate.net/publication/269035608_Biogas_Slurry	23 rd -25 th November, 2024.

	Chlorella pyrenoidosa	Sustainability, JNU New Delhi	An_alternative_and_sustainable_media_for_algae_cultivation_and_avoiding_loss_to_grazers	
Prof. Ashish Kumar	Biogas Production for Sustainable Energy Generation using One Stage Portable Digester	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	E3S Web of Conferences Vol 596, 01032 (2024). https://doi.org/10.1051/e3sconf/202459601032	4 th -5 th October, 2024
Prof. Ashish Kumar	Materials Utilization and Testing with Concrete Block Technology	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	E3S Web of Conferences Vol 596, 01033 (2024). https://doi.org/10.1051/e3sconf/202459601033	4 th -5 th October, 2024
Dr. Tanmay Gupta	Materials Utilization and Testing with Concrete Block Technology.	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	https://www.e3s-conferences.org/article/e3sconf/abs/2024/126/contents/contents.html	4 th -5 th October, 2024
Dr. Tanmay Gupta	Materials Utilization and Testing with Concrete Block Technology.	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	In <i>E3S Web of Conferences</i> (Vol. 596, p. 01033). EDP Sciences. 10.1051/e3sconf/202459601033	4 th -5 th October, 2024
Dr. Tanmay Gupta	A Comprehensive Analysis of the 2023 Himalayan Disasters in Himachal Pradesh: Multi-Sectoral Impacts and Strategic Mitigation Approaches	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	In <i>E3S Web of Conferences</i> (Vol. 596, p. 01009). EDP Sciences. 10.1051/e3sconf/202459601009	4 th -5 th October, 2024

Dr. Saurav	A Review on Non-destructive Techniques for Corrosion Monitoring in Reinforced Concrete Structures	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	https://www.e3s-conferences.org/article_s/e3sconf/abs/2024/126/contents/contents.html	4 th -5 th October, 2024
Dr. Kaushal Kumar	Strength and Durability Assessment of High Strength Concrete with Processed and Unprocessed Recycled Aggregates	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	E3S Web of Conferences Vol 596 DOI:10.1051/e3sconf/202459601039	4 th -5 th October, 2024
Dr. Niraj Singh Parihar	Biostabilisation of slopes: A review	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	E3S Web of Conferences Vol 596 https://doi.org/10.1051/e3sconf/202459601019	4 th -5 th October, 2024
Dr. Amardeep	Application of E-Waste in the Construction of Concrete Pavements: A Comprehensive Review	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	E3S Web of Conferences Vol 596 DOI:10.1051/e3sconf/202459601031	4 th -5 th October, 2024
Dr. Niraj Singh Parihar	Biostabilisation of slopes: A review	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	E3S Web of Conferences Vol 596 https://doi.org/10.1051/e3sconf/202459601019	4 th -5 th October, 2024
Dr. Rishi Rana Kalia	Water quality prediction using Machine Learning Models.	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024)	E3S Web of Conferences Vol 596, 01025 (2024). https://doi.org/10.1051/e3sconf/202459601025	4 th -5 th October, 2024

5.13.2 Guest Speakers/Lectures/ VisitsGuest Speakers

Name of the Guest Speaker	Designation of the Speaker	Topic of Lecture	Date
Dr. Shivang Shekhar	Assistant Professor, Indian Institute of Technology, Mandi	Probabilistic Seismic Risk Assessment of Infrastructure Systems	22 nd July, 2024
Name of the Guest Speaker	Designation of the Speaker	Topic of Lecture	Date
Dr. Saran Srikanth Bodda	Graduate Faculty, North Carolina State University, Raleigh, USA	An Overview of External Probabilistic Risk Assessment	23 rd July, 2024
Dr. Ankit Agarwal	Assistant Professor, Indian Institute of Technology, Roorkee	Probabilistic Flood Hazard Analysis	23 rd July, 2024
Dr. Mahesh Reddy Gade	Associate Professor, Indian Institute of Technology, Mandi	Earthquake– Induced Landslide Hazard Assessment	24 th July, 2024
Dr. Kala Venkata Uday	Associate Professor, Indian Institute of Technology, Mandi	Landslide Risk Mitigation and Prediction.	24 th July, 2024
Dr. P. Ravi Prakash	Assistant Professor, Indian Institute of Technology, Jodhpur	Fire Safety in Structures: An Overview	25 th July, 2024
Dr. Sudheer Dwivedi	Joint Director, Disaster Management Institute, Madhya Pradesh	Process Hazard Identification Techniques in Industries	25 th July, 2024
Dr. Subir Sen	Associate Professor, Indian Institute of Technology, Roorkee	Economic Effects of Disasters: Three Different Cases	26 th July, 2024

Dr. Sushil Kumar Himanshu	Assistant Professor, Asian Institute of Technology (AIT), Bangkok, Thailand	Modern Technologies for Smart and Sustainable Irrigation Management	4 th October, 2024
Dr. Rohit Tiwari	Associate Prof. of Geotechnical Engineering at UNSW Sydney	Physical Model Testings in Geotechnical Earthquake Engineering	4 th October, 2024
Dr. Aakash Gupta	Scientist, CRRI New-Delhi	Modern Technologies for Pavement Evaluation	4 th October, 2024
Dr. Ankesh Kumar	Assistant Professor in the Geotechnical Division, Department of Civil Engineering, IIT Palakkad	Rock Engineering for GeoEnergy	4 th October, 2024
Dr. Anajani Kumar Shukla	Managing Director ASCoMBuildCon Pvt Ltd	Retrofitting of Bridges	4 th October, 2024
Dr. Kishant Kant	Assistant professor IIT Ropar.	Gas separation and storage for environmental and energy concerns	5 th October, 2024
Dr. Pankaj Kumar	Assistant Professor in the Department of Civil Engineering at National Institute of Technology Nagaland	Performance Assessment of Mechanically Connected and Adhesive Bonded Steel-Concrete Composite Connections	5 th October, 2024
Dr. Dev Sengupta	Scientist DRDO	Advanced Remote Sensing and its Application	5 th October, 2024

Dr. Harinarayan Tiwari	Maning Director, Floodkon India LLP	Risk-Informed Dam Safety Management	5 th October, 2024
Mr. Ambuj Awasthi	Project Controls Specialist at Fluor Daniel India Pvt. Ltd.	The 2050 Energy-Mix for Sustainability	22 nd November, 2025
Dr. Senthil Kasilingam	Asst. Professor, CED, NIT Jalandhar	Response of Reinforced Concrete Underground Tunnels under Impact Load of Varying Drop Height	28 th March, 2025
Mr. AnweshBhaduri,	Structural Engineer and Certified ETABS Instructor	ETABS Online Training Program	19 th March – 2 nd April, 2025

Lectures Delivered by Faculty

Name of Faculty	Designation of Faculty	Topic of Lecture	Date	Venue
Mr. Akash Bhardwaj	Asst. Professor, JUIT Solan	Industrial Visit - Sawara Kuddu	4 th May, 2024	Hydroelectric Project, Hatkoti, Shimla, H.P.
Dr. Tanmay Gupta	Assistant Prof (SG)	Post Landslide Assessments: Harnessing Innovative Techniques for Future Resilience	23 rd July, 2024	Civil Engineering Department, JUIT
Mr. Akash Bhardwaj	Asst. Professor	Remote Sensing and GIS Applications for Disaster Management,	24 th –27 th September, 2024	Civil Engineering Department, JUIT
Dr. Niraj Singh Parihar	Assistant Prof (SG)	Geotechnical Engineering and Hazard Mitigation for Buildings,	25 th September, 2024	Civil Engineering Department, JUIT
Dr. Niraj Singh Parihar	Asst. Professor (SG)	Landslide Risk Management and Slope Stability	26 September, 2024	Civil Engineering Department, JUIT

Name of Faculty	Designation of Faculty	Topic of Lecture	Date	Venue
Dr. Niraj Singh Parihar	Asst. Professor (SG)	Importance of Soil Analysis in Construction	27 September, 2024	Civil Engineering Department, JUIT
Dr. Saurav	Asst. Professor (SG)	Non-Destructive Testing of Concrete	13 th November, 2024.	Government Polytechnic, Seobagh, Kullu
Dr. Rishi Rana Kalia	Asst. Professor (SG)	Trends in Civil Engineering	2 nd December, 2024	Government Senior Secondary School (GSSS), BoilaeuganjandTotu
Dr. Rishi Rana Kalia	Asst. Professor (SG)	skill development, and educational pathways after high school	19 th December, 2024	BL Central school, Baddi and Nav Jyoti Public School, Baddi
Dr. Tanmay Gupta	Assistant Prof (SG)	Roles & responsibilities of authorities & professionals to provide seismically safe build environment to the citizens,	31 st January, 2025	HIPA, Shimla
Dr. Kaushal Kumar	Assistant Professor	Condition evaluation methods of existing structures,	27 th March, 2025	GBN Govt. Polytechnic Nilokheri Haryana
Dr. Kaushal Kumar	Assistant Professor	Condition evaluation methods of existing Concrete structures,	27 th March, 2025	State Institute of Engg & Technology, Nilokheri, Haryana
Dr. Ashish Kumar	Prof. & HOD	Project-Based Learning (PBL) & Real-World Application in ICT	29 th May 2025	The District-Led Deliberation (DLD) organized under the aegis of CBSE, held at Gurukul International Sr. Sec. School, Solan (HP).
Dr. Ashish Kumar	Prof. & HOD	Assessment and Implementation Strategies for Experiential ICT	29 th May 2025	The District-Led Deliberation (DLD) organized under the aegis of CBSE, held at Gurukul International Sr. Sec. School, Solan (HP).

5.14 Visits Organized

5.14.1 Survey Camp Organized, 30 June 2024 to 8 August 2024. The Department of Civil Engineering at Jaypee University of Information Technology held a survey camp for the students of Government polytechnic College of Mandi Aadampur Haryana from 30 June 2024 to 8 August 2024. A total number of 63 students attended the survey camp along with the three faculty member of Civil Engineering Department. During the stay of the students, several academic activities like plain table, chain survey, contouring etc were conducted in the JUIT campus. Besides this, students visited the Department of Civil Engineering and a thoroughly knowledge related to different advanced equipment and their uses for research work was shared with the students by Dr. Ashish Kumar, Head of the Department, Dr. Amardeep, Assistant Professor, Mr. Jaswinder Singh, Mr. Amar Kumar and Mr. Rajesh Sahu (Lab Technicians). Students were really very happy with all the arrangements and the surrounding environment during their stay. Numbers of students were raising their queries in order to take the admission in the U.G program in the Department of Civil Engineering. Additionally, students visited different lab facilities in the Department of Civil Engineering. Students visited the STP of the University also to understand the working process of the plant.

5.14.2 Outreach Activity

5.14.2.1 Outreach Activity on March 4th 2025. On March 4th, 2025, Dr. Saurabh Rawat, Associate Professor, Mr. Chandra Pal Gautam, Assistant Professor from Department of Civil Engineering, JUIT along with Dr. Hari Singh, Assistant Professor, CSE & IT, JUIT visited Government Polytechnic, Tohana, Haryana for outreach and delivering expert lectures. Dr. Saurabh Rawat delivered an expert talk on “Stability of slopes”. Dr. Rawat discussed the basics of slope stability and the various factors contributing to its failure. The session was followed by another expert talk on ‘Earthquake resistant Buildings’ by Mr. Chandra Pal Gautam. Mr. Gautam discussed the various tectonic plates theory, earthquake zones in India and terminologies related to earthquakes Both the sessions were followed by Q&A session wherein the students actively discussed their doubts and interacted with the experts regarding the civil engineering aspects related to slope stability and earthquakes. The expert talk was attended by a total of 52 students from 2nd and 3rd year students along with the faculty members of the Civil Engineering Department.

5.14.2.2 Outreach and Expert Lecture at Guru Daksh Government Polytechnic, Hisar, Haryana on March 3rd , 2025. On March 3rd , 2025, Dr. Saurabh Rawat, Associate Professor, Mr. Chandra Pal Gautam, Assistant Professor from Department of Civil Engineering, JUIT along with Dr. Hari Singh, Assistant Professor, CSE & IT, JUIT visited Guru Daksh Government Polytechnic, Hisar, Haryana for outreach and delivering expert lectures. Dr. Saurabh Rawat delivered an expert talk on “Enhancing Slope Stability with Soil Nailing: Technique, Application, and Advancement”. Dr. Rawat discussed the basics of landslide and the various mitigation techniques that are being used in the field. Thereafter, Mr. Chandra Pal Gautam discussed the topic ‘Earthquake Engineering’. Mr. Gautam talked about the tectonic plates theory, earthquake generation and terminologies related to earthquakes. The expert talk was attended by a total of 58 students from 2nd and 3rd year students along with the faculty members of the Civil Engineering Department.

5.14.2.3 Outreach and Expert Lecture at Rajiv Gandhi Government Polytechnic, Narwana, Haryana on March 5th , 2025.

On March 5th , 2025, Dr. Saurabh Rawat, Associate Professor and Mr. Chandra Pal Gautam, Assistant Professor from Department of Civil Engineering, JUIT visited Government Polytechnic, Narwana, Haryana for outreach and delivering expert lectures. Dr. Saurabh Rawat delivered an expert talk on “Soil Compaction: Some Insights”. Dr. Rawat discussed the difference between compaction and consolidation. The session was followed by an expert talk on ‘Earthquake resistant construction’ by Mr. Chandra Pal Gautam. Mr. Gautam discussed the various tectonic plates theory, earthquake zones in India and terminologies related to earthquakes. The expert talk was attended by a total of 78 students with 39 students from 2nd year and 39 students from 3rd year.

5.14.2.4 Outreach and Expert Lecture at Government Polytechnic, Mandi Adampur, Haryana.

On March 3rd, 2025, Dr. Saurabh Rawat, Associate Professor, Mr. Chandra Pal Gautam, Assistant Professor from Department of Civil Engineering, JUIT along with Dr. Hari Singh, Assistant Professor, CSE & IT, JUIT visited Government Polytechnic, Mandi Adampur, Haryana for outreach and delivering expert lectures. Dr. Saurabh Rawat delivered an expert talk on “Enhancing Slope Stability with Soil Nailing: Technique, Application, and Advancement”. Thereafter, Mr. Chandra Pal Gautam discussed the topic ‘Earthquake Engineering’. Mr. Gautam talked about the tectonic plates theory, earthquake generation and terminologies related to earthquakes. The expert talk was attended by a total of 57 students from 2nd and 3rd year students along with the faculty members of the Civil Engineering Department.

5.14.2.5 Expert Lecture at GBN Govt. Polytechnic Nilokheri, Haryana.

On March 27th , 2025, Dr. Amardeep and Dr. Kaushal Kumar from the Department of Civil Engineering, JUIT visited GBN Govt. Polytechnic Nilokheri, Haryana, to interact with the students of Civil Engineering Department. Dr. Amardeep delivered a lecture titled as “Identification of follower and non following vehicles on two lane highways”. Dr. Kaushal Kumar delivered an expert talk on “Condition evaluation methods of existing structures”. A total of 60 students along with Sh. Bajinder Sharma, HOD were present during the interaction session. A detailed discussion was conducted regarding the different opportunities for the Civil Engineers across the country and the world.

5.14.2.6 Expert Lecture at State Institute of Engineering & Technology, Nilokheri, Haryana.

On March 27th ,2025, Dr. Amardeep and Dr. Kaushal Kumar from the Department of Civil Engineering, JUIT visited SIET, Nilokheri, Haryana, to interact with the students of Civil Engineering Department. Dr. Amardeep delivered a lecture titled as “Identification of follower and non-following vehicles on two lane highways”. Dr. Kaushal Kumar delivered an expert talk on “Condition evaluation methods of existing structures”. A total of 60 students along with Dr. Vishal Arora, HOD were present during the interaction session. Dr. Vishal Arora showed interest in conducting the survey camp for the B.Tech. students at Jaypee University of Information Technology Waknaghat.

5.14.2.7 Outreach Activity/ Lecture Delivered. 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." Two interactive sessions on the topic: Project-Based Learning (PBL) & Real-World Application in ICT and Assessment and Implementation Strategies for Experiential ICT were conducted. 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. The importance of experiential learning was emphasized over traditional learning.

5.14.2.8 Outreach at Government Polytechnic, Seobagh, Kullu. A team of three members comprising Prof. Tirtha Raj Singh (Department of Biotechnology and Bioinformatics), Dr. Saurav (Department of Civil Engineering), and Mr. Praveen Kumar (Admission Cell), visited Government Polytechnic, Seobagh, Kullu on 13th November 2024. The objective of the lecture was to provide students with a comprehensive understanding of modern techniques used to evaluate the quality and performance of concrete without causing damage. Dr. Saurav initiated the session by introducing the concept of Non-Destructive Testing (NDT) and highlighting its significance in ensuring structural reliability. He also shared real-world examples where NDT techniques were successfully implemented in infrastructure projects, underlining their practical relevance. The interactive session encouraged students to raise questions and discuss the real-life applications, challenges, and limitations of NDT. Dr. Saurav addressed these queries, offering valuable insights into the evolving role of NDT in civil engineering.

The session concluded with a vote of thanks delivered by the Head of the Civil Engineering Department at the Polytechnic. Overall, the lecture not only enriched the knowledge of attendees but also inspired students to explore advanced methodologies in civil engineering, further supporting their academic and professional pursuits.

5.14.2.9 Outreach at Government Senior Secondary School(GSSS),Boilaeuganj and Totu. The primary objective of this outreach program was to create awareness about JUIT among school students. The event aimed at engaging them meaningfully, offering academic and career guidance, and encouraging active community involvement.

A detailed session was conducted focusing on professional fields, skill development, and educational pathways after high school. To enhance student participation, a JUIT STEM Quiz was also organized.

The outreach program proved to be a successful initiative, fostering positive student engagement and providing valuable insights for their educational and personal development. It was well-received by both students and faculty, and the interaction was further enriched by the active participation of Dr. Shruti Jain and Dr. Rishi Rana, who addressed all queries raised by the students.

Moving forward, JUIT looks forward to continuing its collaboration with the school to further support the academic aspirations and goals of its students.

5.14.2.10 Outreach at BL Central Public School, Baddi and Nav Jyoti Public School, Baddi. The outreach programs at BL Central Public School, Baddi and Nav Jyoti Public School, Baddi were conducted with the primary objective of creating awareness about JUIT

among school students. These sessions aimed to engage students in a meaningful and interactive manner, provide guidance and support for their academic and personal development, and encourage community involvement.

During the sessions, a detailed discussion was held on various professional fields, skill development opportunities, and educational pathways after high school. To further enhance student participation and interest, a JUIT STEM Quiz was organized.

The outreach initiatives proved to be highly successful, fostering positive student engagement and offering valuable insights for educational and personal growth. The programs were well-received by both students and faculty members, reflecting their effectiveness in motivating students towards academic excellence and future career planning.

All queries raised by the students were effectively addressed by Dr. Rishi Rana and Dr. Pradeep Garg, making the interaction even more enriching. Moving forward, JUIT looks forward to strengthening its partnership with these schools to further support the educational aspirations and goals of their students.

5.14.3 Event Organized by CEC

Bridge Making Competition Igniting Innovation through Structural Ingenuity Organized by: Civil Engineering Consortium (CEC) In Collaboration with: Institution's Innovation Council (IIC) Date: 3rd–4th May 2025 Venue: Dhyankaksh (DK) & Open Cafeteria (OC), JUIT. The competition was successfully coordinated by a dedicated team of 3rd-year CEC members from the Organising, Commute, and Management Committees, who managed everything from logistics to participant engagement with professionalism and enthusiasm. We were honored to have the invaluable guidance and support of Dr. Amardeep, Dr. Saurabh, and Prof. (Dr.) Ashish Kumar, HoD (Civil Engineering). 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.

5.14.4 Industrial Visit on 8th May, 2025

The industrial visit to the Sunni Dam Hydroelectric Project, operated by SJVN Ltd., was organized as part of the academic curriculum for students of the Civil Engineering Department at Jaypee University of Information Technology. The primary objective was to provide students with practical exposure to the advanced construction methodologies, design principles, and civil engineering applications involved in a large-scale hydroelectric project. The visit aimed to bridge theoretical knowledge with on-ground practices, focusing on renewable energy infrastructure and sustainable development. A dedicated interactive session was held where project managers discussed the significant civil engineering challenges encountered during the project's execution, such as difficult terrain, tunneling, and ensuring structural integrity. This provided invaluable insights into real-world problem-solving in civil engineering projects. The industrial visit to the Sunni Dam Hydroelectric

Project was an immensely educational and enriching experience for both students and faculty. It successfully provided a deep, practical understanding of the complexities involved in developing modern hydropower infrastructure. The exposure to SJVN's professional project management and engineering excellence has greatly inspired the students and augmented their academic learning.

5.15 Recognition & Awards

By Faculty

Name of Faculty	Designation of Faculty	Award	Date	Achievement
-				

5.16 Composition of Various Bodies

BOS Members

S No	Name	Designation	Institution
1	Dr Ashish Kumar, Chairman	Head of the Department, Civil Engineering	Jaypee University of Information Technology, Wagnaghat
2	Dr. Ashok Kumar Gupta, Member	Professor & Dean (Academics and Research)	Jaypee University of Information Technology, Wagnaghat
3	Dr. Saurabh Rawat, Member	Associate Professor	Jaypee University of Information Technology, Wagnaghat
4	Dr. Amardeep, Member (By Rotation)	Assistant Professor	Jaypee University of Information Technology, Wagnaghat
5	Dr. Hemant Sood, Member	Professor	Department of Biotechnology, Jaypee University of Information Technology, Wagnaghat
6	Prof. Arun Goel, Member	Professor	Department of Civil Engineering, NIT Kurushetra
7	Mr. Rijul Bajaj, Member	Assistant Manager, L & T, Gurgaon	L & T, Gurgaon
8	Er. Kapil Dutt Sharma, Member	Sr. Manager (Civil)	HPPCL
9	Prof. Sunil Kumar Khah, Member	Professor	Department of PMS, Jaypee University of Information Technology, Wagnaghat

List of Various Departmental Coordinators/Committee

SNo	Coordinator/Committee	Name
1	PhD Coordinator	Dr Rishi Rana Kalia
2	MTech Coordinator	1. MTech EE: Dr. Rishi Rana 2. MTech SE: Dr. Saurav Kumar 3. MTech CM: Dr. Saurabh Rawat
3	BTech Project Coordinator	Mr. Chandra Pal Gautam
4	Training and Placement Coordinator	Dr. Kaushal Kumar
5	BOS Coordinator	Dr. Saurabh Rawat/Dr.Amardeep
6	NAAC Coordinator	Dr Saurabh Rawat/ Mr Akash Bhardwaj (member)
7	NBA Coordinator	Dr Saurabh Rawat Mr Akash Bhardwaj(member)
8	Program Assessment and Quality Improvement Committee	Dr Ashish Kumar (Convenor) Dr Ashok Kumar Gupta (member) Dr. Sugandha Singh (member) Dr. Tanmay Gupta (member) Dr. Saurav (member) Mr. Chandra Pal Gautam (Coordinator)
9	MOOC/SWAYAM courses Coordinator	Mr Akash Bhardwaj
10	Academically Weak Students Committee/feedback/mentorship	Dr. Niraj Singh Parihar
11	Website Maintenance Coordinator	Dr Sugandha Singh/Dr. Tanmay Gupta
12	Lab Coordinator	Dr. Niraj Singh Parihar
13	Lab In charge	Fluid Mechanics - Mr Kaushal Kumar Concrete Lab. - Dr Saurav Highway Lab - Dr Amardeep Engineering Drawing Lab- Mr Chandrapal Workshop Lab - Mr Kaushal Kumar CAD Lab – Mr Chandrapal Geotechnical Eng. Lab - Dr. Niraj Singh Parihar Surveying lab- Akash Bhardwaj Structural Mechanics Lab- Dr Sugandha Singh Environmental Lab- Dr Rishi Rana Fluvial hydraulic and Research Lab- Dr. Tanmay Gupta

14	Research Publications, Patents and IPR, Faculty project Proposal Coordinator	Dr. Sugandha Singh/Dr. Rishi Rana
15	Attendance Review Coordinator	Mr Aakash Bharadwaj
16	Event data Coordinator	Dr Sugandha Singh/Dr. Tanmay Gupta
17	Hilly Ramblings Coordinator	Dr Rishi Rana Kalia
18	Stock Verification	Dr. Tanmay Gupta (Coordinator) Dr. Niraj Singh Parihar (member)
19	Alumni Affairs	Dr.Amardeep
20	Department Annual Report Coordinator	Dr Ashish Kumar Dr Rishi Rana Kalia
21	Outreach Team	Dr. Amardeep (Coordinator) Dr. Tanmay Gupta, Mr. Akash Bhardwaj Dr. Saurav
22	Consultancy Coordinator	Dr Tanmay Gupta
23	Proficiency Coordinator	Dr Tanmay Gupta
24	Department Club Coordinator (CEC)	Mr Chandra Pal Gautam
25	Mock Interviews Committee	Prof. Ashok K Gupta (Coordinator) Dr. Amardeep (member) Dr. Rishi Rana Kalia (member) Dr. Kaushal Kumar (member)

Civil Engineering Department- Consultative Committee (teacher-student interaction)

Faculty members:

Dr Saurav, Assistant Professor [SG]
 Dr Rishi Rana Kalia, Assistant Professor [SG]
 Dr Tanmay Gupta, Assistant Professor [SG]
 Dr. Niraj Parihar, Assistant Professor [Gr-II]
 Dr. Kaushal Kumar, Assistant Professor [Gr-II]

Student members:

Mr. Manik Tyagi, Representative B Tech I Year Civil Engineering
 Mr. Daksh Barara, Representative B Tech I Year Civil Engineering
 Mr. Anmol Rana, Representative B Tech II Year Civil Engineering
 Mr. Aryaman Katoch, Representative B Tech III Year Civil Engineering
 MrLalkapthanh, Representative B Tech III year Civil Engineering
 MrAyush Gupta, Representative B Tech IV year Civil Engineering
 Mr Rajat Sheetal, Representative B Tech IV year Civil Engineering

6. DEPARTMENT OF COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

6.1 Vision and Mission

- (a) **Vision.** To become a Center of Excellence in the computer sciences and information technology discipline with a strong research and teaching environment that adapts swiftly to the challenges of the 21st century.
- (b) **Mission:**
- (i) **M1:** To provide qualitative education and generate new knowledge by engaging in cutting-edge research and by offering state-of-the-art undergraduate, postgraduate and doctoral programmes, leading to careers as Computer and IT professionals in the widely diversified domains of industry, government and academia.
 - (ii) **M2:** To promote a teaching and learning process that yields advancements in state-of-the-art in computer science and information technology, resulting in integration of research results and innovations into other scientific disciplines leading to new technologies and products.
 - (iii) **M3:** To harness human capital for sustainable competitive edge and social relevance by inculcating the philosophy of continuous learning and innovation in Computer Science and IT.

6.2 Faculty Details

All faculty, their qualification and specialization as **Appendix F**

Name	Qualification	Specialization
Prof. Dr. Vivek Sehgal	PhD	Embedded Systems, Advanced Computer Architecture
Dr. Pradeep Kumar Gupta	PhD, Post-Doctorate	Internet-of-Things, Sustainable Computing
Dr Pardeep Kumar	PhD	Computational and Machine Intelligence
Dr Ravindara Bhatt	PhD	Sensor Networks, Deployment modeling, communication and energy efficient algorithms.
Dr Aman Sharma	PhD	Machine learning, bioinformatics, artificial intelligence, deep learning and data analytics

Dr Amit Kumar	PhD	Software Effort Estimation, Defect Prediction
Dr Amol Vasudeva	PhD	Various attacks in MANETs, VANETs and Sensor Networks and their detection
Dr. Deepak Gupta	PhD	Big Data Analytics, Cyber Security, Machine/Deep Learning, and Programming Languages
Dr Ekta Gandotra	PhD	Malware Threat Profiling, Cyber Threat Intelligence, Machine Learning
Dr Hari Singh	PhD	Distributed and Parallel Computing, Grid Computing
Mr. Aayush Sharma	M.Tech	Artificial Intelligence, Machine Learning
Mr. Faisal Firdous	M.Tech	Programming Languages, Data Science
Ms. Nitika	M.Tech	Machine Learning and Deep Learning, Transfer Learning, Natural Language Processing
Mr. Ramesh Narwal	M.Tech	Human Behaviour Prediction, Machine Learning, Artificial Intelligence.
Ms. Seema Rani	M.Tech	cyber-attack detection, machine learning, computer networks, and threat detection
Dr Rakesh Kanji	PhD	Personalized medicine, Natural language processing
Dr Ruchi Verma	PhD	Information systems, social networks
Dr Shubham Goel	PhD	Machine Learning, Pattern Recognition and Data Mining
Dr. Vipul Sharma	PhD	Computer Vision, Deep learning, Steganography & Pattern Recognition.
Dr. Pankaj Dhiman	PhD	Cryptography, Network Security, Employing secure communication techniques in IoT and Cloud Computing
Dr. Kushal Kanwar	PhD	Complex Networks, Artificial Intelligence, Machine Learning, Modelling & Simulation, and Quantum Computation
Dr. Diksha Hooda	PhD	
Dr. Nancy Singla	PhD	Image processing, Biometrics and forensics, Information Security
Dr. Nishant Sharma	PhD	Wireless Sensor Network, Internet of Things and Vehicular Networks

Mr Arvind Kumar	PhD (Pursuing)	Internet of Things, Computer Networks, Algorithms
Mr Surjeet Singh	PhD (Pursuing)	Computer Networks, Mobile Computing
Mr Praveen Modi	PhD (Pursuing)	Data Mining with Statistical Analysis
Mr Prateek Thakral	M.Tech.	Graph theory, discrete mathematics
Dr. Meghna Dhalaria	PhD	Machine Learning, Malware Threat Profiling, Deep Learning.
Mr. Akshay Kumar	M.Tech	Computer vision, Digital Image Processing and Machine Learning.
Mr. Gaurav Negi	M.Tech	Artificial Intelligence, Machine Learning
Mr. Palak Aar	PhD (Pursuing)	Blockchain Technology, with a focus on its applications, consensus algorithms, security, and performance optimization.
Mr. Saurav Kumar Singh	M.Tech	computational problem-solving

6.3 Programs

6.3.1 Undergraduate Programs. At the undergraduate level, the Department lays emphasis on theoretical and practical aspects of object-oriented programming, software engineering, Computer organization & architecture, database management, operating systems, theory of computation, compiler design, computer graphics, computer networks and Microprocessors and microcontrollers. The department provides exposure to emerging technologies as well as futuristic technologies like nanotechnology, quantum computing, bioinformatics, genetic algorithms and parallel programming.

- (a) B.Tech. (Computer Science Engineering)
- (b) B.Tech. (Information Technology)

6.3.2 PhD Program. The award of the PhD degree is in recognition of high academic achievements demonstrated by independent research and application of knowledge to the solution of technical and scientific problems. Creative and productive inquiry is the basic requirement underlying research work. The academic program leading to the degree involves fulfilling course credit requirements, residential requirements and a thesis giving a critical account of the research carried out, in any of the areas listed below. Algorithms, Artificial Intelligence, Computer Networks, Computer Systems Architecture, Cyber Security, Software Engineering and Information Systems, Image Information Processing, Parallel and Distributed Computing, Database systems and Datamining.

6.4 Lab Facilities

6.4.1 New Labs

Lab No.	Lab Name
	NVidia Supported: Embeded System Lab

6.4.2 Equipments details of Computer Science Lab:

S No	Lab Name	System with Configuration	Nos
1	Computer Lab3	HP 280 G2 MT (8GB RAM, 1TB HDD, Intel core i5@ 6500 GHZ, Windows 10 Pr. 64 bit)	60
		Dell Vostro core i5 7400, 8GB RAM, 1TB HDD, Windows 10 Pro 64 bit	1
		Dell Precision Tower (8GB RAM, 1TB HDD, Intel Xeon Processor @ 6500 GHZ, Windows 10 Pr. 64 bit)	1
2	Computer Lab4	HP 280 G2 MT (8GB RAM, 1TB HDD, Intel core i5@ 6500 GHZ, Windows 10 Pr. 64 bit)	49
3	Computer Lab5	HP Pro Tower 400G9 PCI Desktop PC Processor 12th Gen Intel Core i7,12700x20 Operating system Ubuntu 22.04 LTS, 64 bit, 16GB RAM, 500GB SSD Graphics Mesa Intel UHD graphics 770 (ADL-SGTI)	29
		Dell Optiplex 5000 Desktop PC Processor 12th Gen Core i7 Intel Core i7,12700 @2.10 GHz, Operating System Windows 11 Pro, 64-bit, 16 GB RAM, 500GB SSD	16
		HP Pro Tower 280G9 Processor i7-13700, 13th gen, 16GB RAM, 500GB SSD Windows11 Pro 64 Bit	17
4	Computer Lab6	DELL VOSTRO 3669/INTEL CORE i5 @ 3.00 GHZ, 8GB RAM,1TB HDD	25
		HP Desktop-Core i5-6500 cpu @3.2 Ghz with 8GB RAM and 1 TB HDD, Windows 10 Pro 64 bit	20
		Dell Workstation-Intel Xeon @ 3.3 GHZ, 64-bit, 8 GB RAM, I TB Hard disk, DELL tower 3420, Windows 10 Pro 64 bit	1
		HP Pro Tower 280G9 Processor i7-13700, 13th gen, 16GB RAM, 500GB SSD Windows11 Pro 64 Bit	3
5	Computer Lab7	Dell 12th Gen Intel(R) Core (TM) i7-12700 2.10 GHZ 500SDD, 16 GB RAM, Windows 11 Pro	34

		HP PRO TOWER 280G9 DESKTOP i7 13th gen 16gb RAM, 500GB SSD, WINDOWS 11 PRO	4
		HP PRO TOWER CORE I7 12th Gen, UHD 770, SSD-500GB, 16 GB RAM, Windows 11 pro 64 bit	5
6	Computer Lab8	Dell Workstation-Intel Xeon @ 3.3 GHZ, 64-bit, 8 GB RAM, 1 TB Hard disk, DELL tower 3420, Windos 10 Pro 64 bit	1
		HP PRO TOWER 280G9 DESKTOP i7 13th gen 16gb RAM, 500GB SSD, WINDOWS 11 PRO 64 BIT	7
		HP PRO DESK CORE I7 12th Gen, UHD 770, SSD-500GB, 16 GB RAM, Windows 11 pro 64 bit	29
		HP PRO TOWER CORE I7 12th Gen, UHD 770, SSD-500GB, 16 GB RAM, Windows 11 pro 64 bit	35
		Dell Optiplex 5080, i7 10th, 16 GB, HDD-1TB, 16GB RAM, WINDOWS11 PRO 64 bit	1
7	Computer Lab9	HP PRO 440-238-G9 ALL IN ONE, i7 13th gen windows 11 pro 64 gb. 16gbRam, 500gb ssd	59
		ThinkCentre Core i3-2120 @3.30 GHZ,320 GB HDD, 2 GB RAM, Windows 7 64 bit	2
		Dell Vostro 3669 Intel Core i5-7400 CPU@3.0GHZ, 1 TB HDD, 8GB RAM Windows 10 Pro 64 bit	1
		Dell Workstation Intel Xeon e3-1225 V5@3.30GHZ, 1 TB HDD, 16GB RAM, Windows 10 Pro 64 bit	2
8	Computer Lab10	Dell Vostro Desktop-intel® Core™ i5-7400 CPU@3.00GHz RAM 8 GB 64-bit OS Windows 10 Prof, 1 TB	80
		Dell Optiplex 5080, Desktop-intel® Core™ i7-10700 CPU@2.90GHz 2.90GHz RAM 16 GB 64-bit OS Windows 10 Prof, 1TB	12
		HP 280 G4 MT 8GB RAM, i7 8th gen 1tb hdd, windows 10 pro 64 bit	1
9	Computer Lab11	DELL PRECISION 3460 Desktop intel core i7-12700CPU@2.10 GHZ 16GB RAM, 512 GB SSD, Windows 11 64 bit	30
10	Computer Lab12	Desktop-Intel Core i5-7400 @ 3.0 GHZ, 64-bit, 1 TB Hard disk, 8GB RAM, Windows 10 Pro. 64 bit	12
		Desktop-intel® Core™ i5-6500 CPU @3.20GHz 3.20 GHz RAM 8GB 64-bit OS (60), 1TB	1

6.4.3 Lab Staff with qualification

S No	Name	Qualification	Designation
1	Sh. Shiv Kumar Gupta	Pre. Ph.D. Course (CS), M.Phil. (CS), MCA, M.Sc.(Mathematics)	Sr. Lab Engineer
2	Sh. Ashok Kishtwal	M.Tech (CSE)	Sr. Lab Engineer
3	Sh. Pramod Kumar	B. Tech.(ECE)	Sr. Lab Engineer
4	Sh. Rohit	M.Phil (CS), MCA, M.Sc.(IT), PGDCA, PGDBI, GNIIT	Lab Engineer
5	Mrs Deepika Bhaik	M.Tech.	Lab Engineer
6	Sh. Vijay Kumar	MCA, A LEVEL, APGDIT	Lab Engineer
7	Sh. Hardeep Singh	Diploma in Computer Engg, B.com, MS-CIT, MCA Pursuing	Lab Engineer
8	Sh. Mohan Sharma	MCA, BCA, Diploma in H/N ,CCNA	Sr. Lab Technician
9	Sh. Ravi Raina	3 Years Diploma in Computer, BCA, MCSE and Network+: Concepts and Application Complete	Lab Technician
10	Sh. Rajesh Kumar Sahu (Associated with Civil Dept.)	3 Years Diploma in Computer Science and Engg., BCA	Lab Technician
11	Sh. Deep Narayan Tripathi	Three Year Diploma in ECE, COPA (Computer Operator and Programming Assistant)	Lab Technician

6.4.4 Research Projects Sanctioned during the Academic Year/In Progress

S No	Project Title	Principal Investigator (PI)	Co-PI	Sponsored Agency	Amount
1.	Development and Promotion of Crop Surveillance System for forecasting Leaf Diseases and Protection against Wild Animals using Artificial Intelligence & IoT	Dr. Pradeep Kumar Gupta	Dr. Ravindara Bhatt	HIMCOSTE	6,20,000
2.	S&T Communication Reseach for Community Knowledge Sharing Informatics and Risk Communication based on Block Chain Technology	Dr. Ruchi Verma	Dr. Pradeep Kumar Gupta	NCSTC	34,87,011

3.	IT based Intervention to enhance access to quality care at doorstep to improve adherence of care and reduce adverse events in patients with CVD in model district Shimla	Dr. Ruchi Verma	Dr. P. C Negi	HIMCOSTE	5,70,000
4.	Automated Attendance Monitoring System	Dr. Ekta Gandotra	Dr. Nancy Singla Dr. Deepak Gupta	DRID, IIIT NOIDA	40,000

6.4.5 Conferences, Seminars and Workshops/Faculty Development Program

6.4.5.1 2024 Eighth International Conference on Parallel, Distributed and Grid Computing (PDGC) 18th - 20th December, 2024

The Eighth International Conference on Parallel, Distributed, and Grid Computing (PDGC-2024), held from 18th to 20th December 2024 at Jaypee University of Information Technology (JUIT), Wagnaghat, Himachal Pradesh, India, was a monumental event that showcased the latest advancements in computing. This hybrid conference, which brought together leading academics and industry professionals, featured an impressive lineup of keynote speakers, including Prof. Fatos Xhafa (Professor Catedràtic d'Universitat, Dept. de Ciències de la Computació, Universitat Politècnica de Catalunya, Barcelona, Spain), Prof. Tamas Kiss (Director of Research Centre for Parallel Computing, School of Computer Science and Engineering, University of Westminster, London, UK), Prof. Dhabaleswar Panda (Distinguished Professor of Engineering, Computer Science and Engineering, The Ohio State University, USA), Prof. Kalyanmoy Deb (University Distinguished Professor, Michigan State University, East Lansing, Michigan, USA), Prof. D. P. Vidyarthi (School of Computer and System Sciences, JNU, New Delhi, India), Prof. Kishore Kothapalli (Dean of Academics, International Institute of Information Technology, Hyderabad, India), and Dr. Apurba Das (Global Head, Cognitive Artificial Intelligence Unit, Tata Consultancy Services, Bangalore, India). The keynote by Dr. Apurba Das was also attended by Mr. Manu Bhaskar Gaur (CEO, JUIT). Their insights on topics such as parallel processing, distributed systems, and machine learning highlighted emerging trends shaping the future of technology. The event commenced with an inaugural ceremony graced by dignitaries like Prof. R. K. Sharma (Vice Chancellor, JUIT), Prof. Ashok Kumar Gupta (Dean Academics and Research, JUIT), Prof. Vivek Kumar Sehgal (HoD, CSE/IT, JUIT), Prof. Pardeep Kumar (Conference General Chair, PDGC-2024), and Dr. Aman Sharma (Conference Co-Chair), among others. PDGC-2024 received 739 paper submissions from several countries, with a rigorous peer-review



6.4.5.2 ACM Summer School

The Department of CSE & IT at JUIT successfully hosted the ACM India Summer School 2025 on Quantum Circuits and Quantum Algorithms from June 09 to June 20, 2025. The school delivered a rigorous blend of lectures, demos, and hands-on laboratories introducing participants to quantum computation fundamentals, circuit design, and algorithmic paradigms (e.g., amplitude amplification and period finding). The program was coordinated under the leadership of Prof. Vivek Kumar Sehgal, with core organizing support from Dr. Aman Sharma, Dr. Amit Kumar, and Dr. Anita Sardana.

Objectives of the summer school were:

1. To build foundational understanding of quantum information and quantum circuits.
2. To introduce seminal quantum algorithms (e.g., Deutsch–Jozsa, Grover’s search, phase estimation).
3. To provide hands-on familiarity with quantum SDKs and simulators/hardware back-ends.
4. To enable learners to formulate small research problems and prototype quantum workflows.
5. To foster an active network among students, researchers, and practitioners in quantum computing.

We were honored to host a stellar lineup of instructors whose sessions brought immense depth and clarity to foundational and advanced topics in quantum computing:

- 1) **Prof. Debajyoti Bera** – IIIT Delhi
- 2) **Prof. Poulami Das** – UT Austin, USA
- 3) **Prof. Dinesh Krishnamoorthy** – IIT Palakkad
- 4) **Prof. Rajendra Kumar** – IIT Delhi
- 5) **Prof. Rajat Mittal** – IIT Kanpur
- 6) **Prof. Jaikumar Radhakrishnan** – ICTS, Bengaluru
- 7) **Mr. Snehal Raj** – Sorbonne University & QC Ware, France
- 8) **Prof. Subhajit Roy** – IIT Kanpur

A heartfelt **vote of thanks** is extended to all our distinguished speakers for their invaluable contributions, insightful lectures, and dedicated mentorship that enriched the learning experience of every participant. Our heartfelt thanks to all the instructors for their exceptional teaching, and to the brilliant student participants from across the country for their curiosity, collaboration, and enthusiasm.

Special thanks to ACM India for this enriching academic initiative, and to everyone at JUIT who contributed to its seamless execution. Here's to continued exploration in the quantum realm!

LIST OF EXTERNAL AND INTERNAL PARTICIPANTS

S.No.	Name	Affiliation
1	Anita Sardana	JUIT Solan
2	Shamboonath	JUIT Solan
3	Ramesh	JUIT Solan
4	Pradeep Kumar Gupta	JUIT Solan
5	Aman Sharma	JUIT Solan
6	Vivek Kumar Sehgal	JUIT Solan
7	Sunny Raj	BIT Mesra Ranchi
8	Aaradhya Srivastava	Chitkara University
9	Dinesh Krishnamoorthy	IIT Palakkad
10	Jaikumar Radhakrishnan	ICTS-TIFR Bengaluru
11	Subhajit Roy	IIT Kanpur
12	Debajyoti Bera	IIIT Delhi
13	Rajendra Kumar	IIT Delhi
14	Siddhant Patra	IISER Bhopal
15	Shashank Kumar	IIT Delhi
16	Dhruv Gupta	Punjab Engineering College, Chandigarh
17	Chetan Verma	University of Delhi
18	Girisha Malni N	Velammal College of Engineering and Technology, Madurai
19	Satya Venkata Hemanth Challapalli	Prasad V.Potluri Siddhartha Institute of Technology
20	Santhosh MRS	Velammal College of Engineering and Technology, Madurai
21	Pruthviraj Desale	Pimpri Chinchwad College of Engineering, Pune
22	Devansh Gupta	SRM Institute of Science and Technology, Kattankulathur
23	Girija Sankar Ray	National Institute of Science Education and Research Bhubaneswar
24	Geetkumar Sonawane	SVKM, Dhule
25	Kartikeya Pandit	Punjab Engineering College, Chandigarh
26	Anuj Kumar Sirohi	IIT Delhi
27	Julin Shaji	IIT Palakkad

28	Rajat Shuvra Saha	National Institute of Science Education and Research, Bhubaneswar
29	Raakin Majeed	UGDx, Atlas SkillTech University
30	Shruti Amit Shinde	MKSSS's Cummins College Of Engineering for Women, Pune
31	Swathi C G	PES University, Bengaluru
32	Shalu Singh	SRM Institute of Science and Technology, Kattankulathur
33	Prisha Gupta	Amrita Vishwa Vidhyapeetham, Coimbatore
34	Vanshika Ahluwalia	SRM Institute of Science and Technology, Kattankulathur
35	Parth Joshi	Shiv Nadar University, New Delhi
36	Sanjay Kumar	University of Delhi
37	Dr. Kanika Sood	Kaushalya University
38	Virat Narendra Shrimali	Dhirubhai Ambani University, Gandhinagar
39	Kanad Chakradhar Saswade	BITS Pilani, Goa Campus
40	Purvi Wasan	SRM Institute of Science and Technology, Kattankulathur
41	Udit Kumar	IIT Gandhinagar
42	Satyabrat Rath	National Institute of Technology Karnataka Surathkal
43	Biswa Jyoti Dey	Dhirubhai Ambani University, Gandhinagar
44	Ramanand	IIT Gandhinagar
45	Veeresh R Maned	National Institute of Technology Karnataka Surathkal
46	Krutarth Shah	Chennai Mathematical Institute
47	Bhaskar Goyal	National Institute of Science Education and Research, Bhubaneswar
48	Rohini	JUIT Solan
49	Shreya	JUIT Solan
50	Pramod Kumar	JUIT Solan
51	Ashok Kistwal	JUIT Solan
52	Amit Kumar Jakhar	JUIT Solan
53	Hardeep Rana	JUIT Solan
54	Deep Narayan Tripathi	JUIT Solan
55	Kushal Kanwar	JUIT Solan

MEDIA LINK: [ACM India Summer School @ JUIT, Solan, Himachal Pradesh](#)

6.4.5.3 Enkindle Technical Club JUIT

The technical club of Department of Computer Science and the Department of Information Technology “ENKINDLE” has been started with the objective of development and exchange of relevant knowledge to learn and develop skills in various aspects of programming and hardware development and become aware of the technological advancements in various spheres of computer science engineering.

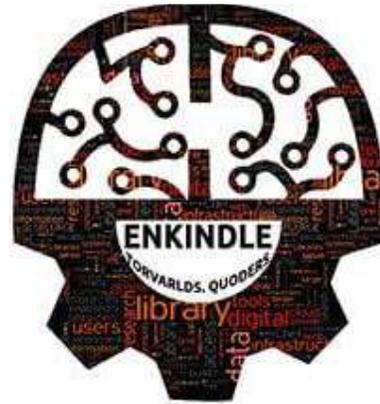
The club aims to work in collaboration with all the departments of JUIT to be able to meet their software

requirements. The technical club has two dedicated wings QUODERS & TORVALDS.

QUODERS – the Open-Source Community Open-Source languages and applications are becoming popular by the day. The purpose of QUODERS is to introduce students to the vibrant Open-Source community which is filled with experienced and technically gifted programmers from across the globe. By helping students connect to the open-source community, QUODERS wants to make it easy for the programmers to get help, inputs, or maybe even partners for a project.

TORVALDS- The Programming Hub TORVALDS creates a common platform for the students to share their programming experiences, get help with every day programming and create useful projects for the community. The objective of TORVALDS is to make students efficient and responsible coders and prepare them for various coding competitive platforms.

VISION OF CLUB- ENKINDLE envisions a collaborative hub of innovation at JUIT, uniting students across disciplines to explore the forefronts of IoT, robotics, and machine learning. Our vision is to foster a dynamic environment where members, guided by experienced mentors, unleash their creativity and pioneer transformative solutions. Through our wings, QUODERS and TORVALDS, we aim to equip students with the skills and resources to excel in programming and hardware development. By collaborating with departments university-wide, we strive to address diverse software needs and become integral to JUIT's pursuit of academic excellence and technological advancement. Ultimately, ENKINDLE seeks to inspire the next generation of tech leaders, driving progress and making a positive impact on society.



6.4.5.4 Robotics: A Beginner's Workshop

The Enkindle Club of Jaypee University of Information Technology (JUIT) successfully conducted a hands-on workshop titled "Robotics: A Beginner's Workshop" exclusively for first-year students. The workshop was designed to introduce students to the fascinating world of robotics in an engaging and accessible manner. Guided by faculty coordinators Dr. Aman Sharma and Dr. Anita Sardana, the session aimed to provide foundational knowledge in robotics while encouraging practical, hands-on learning. Participants were introduced to basic robotic concepts, including sensors, actuators, and microcontrollers, followed by a

guided activity where they built and tested simple robotic models using beginner-friendly kits. Students worked in teams, fostering collaboration, logical thinking, and problem-solving skills. The workshop saw enthusiastic participation, with students showing great interest and excitement in designing their first robotic systems. Faculty mentors and student volunteers from the Enkindle Club ensured that every team received personalized guidance and support throughout the session. The event not only equipped students with practical skills but also sparked curiosity and motivation to explore robotics further. Overall, "Robotics: A Beginner's Workshop" proved to be an enriching and inspiring experience, laying a strong foundation for future technical learning and innovation among first-year students at JUIT.



6.4.5.5 Fostering Innovation in Robotics: A Hands-on Workshop for School Students

A workshop on innovation in robotics was conducted by the Enkindle Club of Jaypee University of Information Technology (JUIT) at Government Model Senior Secondary School, Kunihar, District Solan, Himachal Pradesh. The session was led by Dr. Aman Sharma, accompanied by his first-year B. Tech student, Abhinandit Sharma. The primary objective of the workshop was to provide school students with hands-on experience with a robotic arm and to inspire innovation in robotics at an early stage.

The workshop aimed to introduce students to the fundamentals of robotics through practical demonstrations. Dr. Aman Sharma, an expert in the field, guided the students in understanding the working principles of robotic arms and their applications in various industries. The session was designed to engage students actively, allowing them to interact with and operate the robotic arm. Abhinandit Sharma, a first-year B. Tech student, shared his insights and experiences as a budding engineer, emphasizing how early exposure to robotics can shape a student's career in technology. The interactive approach of the workshop ensured that students were not only spectators but active participants in the learning process.

During the workshop, Dr. Aman Sharma highlighted the role of ATAL Tinkering Labs in fostering innovation among young students. He discussed how these labs, established under the Atal Innovation Mission, provide a platform for students to experiment with robotics and other emerging technologies. He emphasized that early exposure to such resources can significantly help students in adapting to the robotics ecosystem when they pursue higher education in engineering and technology. The students exhibited great enthusiasm and curiosity during the workshop. Many of them actively participated in operating the robotic arm, asking insightful questions about its working mechanisms and potential applications. Their engagement demonstrated a keen interest in robotics, reinforcing the importance of conducting such workshops at the school level.

The workshop successfully ignited a spark of innovation among the school students, providing them with a practical understanding of robotics. The initiative by Enkindle Club, JUIT, proved to be a valuable learning experience for the participants. Dr. Aman Sharma's insights on the significance of ATAL Tinkering Labs further motivated the students to explore robotics and technology-driven fields. Such workshops play a crucial role in shaping the future of young minds, encouraging them to pursue careers in engineering and innovation. To build upon the success of this workshop, it is recommended to organize similar sessions at different schools to reach a broader audience, encourage students to work on small robotics projects to reinforce their learning, facilitate direct collaboration between schools and ATAL Tinkering Labs to provide students with better resources and mentorship, and engage university students in mentoring school students interested in robotics.

The workshop was a significant step towards bridging the gap between school education and university-level technological advancements, ensuring a brighter future for aspiring engineers and innovators.





6.4.5.6 Drone Technologies and its applications

The Enkindle Club of Jaypee University of Information Technology (JUIT), Waknaghat, Solan (H.P.) recently hosted an insightful Boot camp on "Drone Technologies and its applications" in collaboration with NIT, Kurukshetra, Haryana, India under a project "Capacity Building for Human Resource Development in Drone and Related Technology" of Ministry of Electronics & IT, Government of India, from 14th April 2025 to 18th April 2025. The 5-Day Drone Boot camp, organized jointly by N.I.T. Kurukshetra and JUIT, Solan, concluded successfully on 18th April 2025. Held under the MeitY-sponsored initiative "Capacity Building for Human Resource Development in Drone and Related Technology," the program bridged theoretical learning and practical skill-building in drone technologies. From April 14 to 18, participants explored drone design, hardware, flight control systems, safety protocols, and engaged in simulation and live flying sessions.

The boot camp was led by Prof. Lilli Dewan (NIT Kurukshetra), alongside her expert team: Prof. Mahesh Pal, Dr. Satyender, Dr. Shelza, Dr. Ritu Garg, Prof. Munish Garg, Dr. Mohit Dua, Dr. V.G.D. Rayudu, and Dr. Sanjay — whose knowledge-rich and interactive approach ensured an enriching experience.

Special gratitude was extended to Prof. R.K. Sharma, Hon'ble Vice Chancellor of JUIT, for his continuous encouragement and vision. The program's success also stemmed from the support of Prof. Vivek Sehgal (HoD, CSE) and Prof. Rajiv Kumar (HoD, ECE).

Faculty Coordinators of Enkindle Club, Dr. Aman Sharma and Dr. Anita Sardana, were lauded for their efficient coordination. The dedication of student volunteers from Enkindle Club was also instrumental in the event's smooth execution.

The valedictory session closed with certificate distribution and a shared commitment to advancing drone and autonomous technology education.

BOOTCAMP ON DRONE TECHNOLOGIES AND ITS APPLICATIONS
Harnessing AI/ML and IOT

ABOUT BOOTCAMP
N.I.T. Kurukshetra and Jaypee University of Information Technology, Wazirpur, Himachal Pradesh are organizing an exhilarating Drone Bootcamp under the "Capacity Building for Human Resource Development in Drone and Related Technology" project by MeitY.

BOOTCAMP SYNOPSIS

- ✓ INTRODUCTION TO DRONE AND FLIGHT DYNAMICS
- ✓ ELECTRONIC COMPONENTS AND SENSORS
- ✓ CONTROL AND COMMUNICATION TECHNOLOGY
- ✓ FLIGHT TESTING AND CONTROL IN THE REAL FIELD
- ✓ APPLICATION OF AI AND IOT IN DRONE
- ✓ APPLICATION OF DRONE IN IMAGE PROCESSING

ORGANIZING TEAM NIT KURUKSHETRA
Dr. Lillie Dewan, Dr. Ritu Garg, Dr. Mahesh Pal, Dr. V.G. Durgarao Rayudu, Dr. Ganjay Kumar, Dr. Satyender, Dr. Shaloo Duan

ORGANIZING TEAM (JUIT), WAKNAGHAT, HP
Dr. Anshu Sharma (Asst. Prof.), Dr. Anita (Asst. Prof.), Vikas Bhagel (Asst. Prof.)

ELIGIBILITY
ANY UG/PG STUDENTS/ RESEARCH SCHOLARS/FACULTY

LAST DATE TO APPLY IS 10.04.2025

REGISTRATION LINK
<https://forms.gle/VP6CWMBRQVMy0h>

MODE OF Payment
Go to SBI Collect or Click Link: <https://www.onlinesbi.sbi/onlinefees/>
Branch: Education, Institution: Select - Haranya, Select Circle: National Institute of Technology, Kurukshetra, Haranya Select **BOOTCAMP 1627**, make the payment and collect the receipt.

DATE & VENUE
(JUIT), WAKNAGHAT, HP, 10 APRIL 2025

CONTACT
7206393510, 9988173279



6.4.5.7 AI-ML Training Workshop from an Expert from Microsoft

The Department of Computer Science and Engineering/Information Technology organized a 15 days comprehensive training workshop on Artificial Intelligence and Machine Learning (AI-ML) in March, 2025 aimed at bridging the gap between industry practices and academic learning. The workshop was held with the objective of enriching students' and faculty members' understanding of cutting-edge AI-ML technologies and their real-world applications. Mr. Ashish Prasad, an esteemed industry expert from Microsoft, Bangalore, served as the resource person for the sessions. With his vast experience and in-depth knowledge of the domain, Mr. Prasad delivered insightful and engaging lectures, hands-on demonstrations, and interactive discussions that provided participants with valuable exposure to industry-relevant AI-ML tools and methodologies. The workshop successfully created a platform for knowledge exchange, enabling participants to gain practical insights into current industry trends while fostering a deeper understanding of AI-ML concepts.



6.5.6 JUIT ACM Student Chapter 2024-25

6.5.6.1 Orientation

During the ACM JUIT orientation for first year students, a comprehensive introduction to the club's features and teams was provided. The session highlighted the club's focus on coding, research, and technological innovation. Various teams, including those for competitive programming, web development, artificial intelligence, machine learning, and event management, were showcased. Emphasis was placed on collaborative projects, skill building workshops, and participation in hackathons and conferences. The orientation aimed to inspire students to engage with the tech community, develop their skills, and contribute to the club's dynamic environment, fostering growth and innovation within the university. (Number in Attendance: 150, August 22, 2024)



6.5.6.2 Smart India Hackathon

The Smart India Hackathon internal round, organized by ACM JUIT, recorded the highest foot fall in the university's recent history of hackathons. This vibrant event saw enthusiastic participation from students across all years, working in teams to tackle real world problems through innovative tech solutions.

Participants showcased their skills in coding, problem solving, and creativity, presenting their projects to a panel of judges. The hackathon fostered a competitive yet collaborative

atmosphere, with workshops and mentoring sessions enhancing the learning experience. The event not only highlighted the university's thriving tech community but also prepared students for the national-level competition, reinforcing ACM JUIT's commitment to fostering innovation and excellence. (Number in Attendance: 400, September 07-08, 2023)



6.5.6.3 C-sessions & Pointer Sessions

In the C-Sessions and Pointer-Session, second-year students mentored first year students to prepare for their upcoming exams. The sessions focused on key C programming concepts, including data types, control structures, functions, and arrays. Special emphasis was placed on understanding pointers, memory allocation, and pointer arithmetic, which are crucial for mastering the language. Through hands-on coding exercises and real-time problem solving, the second-year mentors provided practical insights and tips. These peer-led sessions aimed to clarify complex topics, boost confidence, and enhance the first-year students' programming skills, ensuring they were well-prepared for their exams. (Number in Attendance: 100, October 07-09, 2024)



6.5.6.4 Leonids

The ACM Student Chapter successfully organized a series of engaging events that combined learning, fun, and teamwork.

The first event, Red Light Green Light, challenged participants to search for hints online during the "green light" phase and solve problems independently during the "red light" phase. This innovative format tested not only technical skills but also adaptability and focus. The second event, Movie Night, brought students together for an evening of relaxation and bonding, creating a sense of community and shared experience beyond academics. The third event, Astro Quest, was a fun and intellectually stimulating quiz featuring questions

related to meteor showers and computer science. Participants showcased both curiosity and knowledge, making the session lively and competitive. These events reflected ACM's mission to foster technical growth, creativity, and collaboration among students while ensuring a balance between learning and enjoyment. (Number in Attendance: 200, November 18-20, 2024)



6.5.6.5 Competitive Programming

The ACM Student Chapter successfully conducted a three-day Competitive Programming Session from 16th to 18th January, aimed at boosting problem-solving abilities and mastering competitive programming skills. Participants engaged in interactive lectures, hands-on coding challenges, and practical problem-solving exercises, covering key concepts such as algorithms, data structures, and optimization techniques. The session encouraged active participation, collaboration, and peer learning, allowing students to apply theoretical knowledge in real-world competitive scenarios. This initiative reflects the ACM club's commitment to enhancing programming proficiency and fostering critical thinking among students, further empowering them to develop strong technical capabilities and excel in competitive programming contests. (Number in Attendance: 100, January 16-18, 2025)



6.5.6.6 Web Development Bootcamp

The ACM Student Chapter successfully conducted a three-day Web Development Bootcamp from 29th to 31st January, aimed at enhancing students' skills in designing, developing, and deploying modern web applications. Participants engaged in interactive lectures, hands-on coding exercises, and practical project-based learning, covering key concepts such as HTML, CSS, JavaScript, front-end frameworks, back-end development, and deployment techniques. The session encouraged active participation, collaboration, and peer learning, enabling students to build real-world web applications from scratch. This initiative reflects the ACM club's commitment to fostering web development expertise, empowering students with practical technical skills, and preparing them to excel in real-world development projects and future tech opportunities. (Number in Attendance: 100, January 29-31, 2025)



6.5.6.7 Qriosity

The ACM Student Chapter successfully organized Qriosity, a six-hour online quiz, designed to challenge participants' intellect and test their ability to think critically under pressure. Participants encountered a diverse set of tech-themed brain teasers and mind-bending questions, engaging in a fast-paced race against time where wit, logical reasoning, and smart searching strategies became essential. The quiz encouraged curiosity, quick decision-making, and resourcefulness, offering an exciting platform where problem-solving met the art of effective Googling. This event highlights the ACM club's dedication to cultivating analytical thinking and adaptability among students, providing them with a dynamic learning experience that strengthens their mental agility and fosters a spirit of healthy competition. (Number in Attendance: 80, February 2, 2024)



6.5.6.8 Inside Out (Designing Bootcamp)

The ACM Student Chapter successfully organized a Designing Boot Camp exclusively for first-year students, aimed at introducing them to the exciting world of creativity and design thinking. The event featured an engaging hands-on workshop, where participants explored the fundamentals of design tools, principles, and techniques, allowing them to translate their imagination into impactful digital visuals. The interactive sessions encouraged students to experiment, innovate, and gain practical exposure to the essentials of UI/UX design. Adding immense value to the boot camp, the participants had the opportunity to attend a speaker session by Ms. Prachi Singal, Associate Consultant: UI/UX at KPMG India. She shared her professional journey, industry insights, and practical tips on design as a career path, inspiring students to approach design not just as a skill but as a problem-solving mindset. This initiative reflects the ACM club's commitment to nurturing creativity, technical knowledge, and professional exposure among students. By combining practical learning with expert guidance, the Designing Boot Camp provided first-year participants with a dynamic platform to build a strong foundation in design while fostering innovation and curiosity. (Number in Attendance: 58, February 6-8, 2025)



6.5.6.9 Code Relay

The ACM Student Chapter organized Code Relay as part of Murious, the annual tech fest of JUIT. The event brought an exciting twist to competitive programming by introducing a relay-style coding challenge, where teams of 3–4 participants collaborated to solve problems under a unique format. In this high-energy contest, team members took turns tackling coding questions, each building upon the progress of the previous teammate. This relay system tested not only their individual coding ability but also their coordination,

strategy, and ability to think on their feet. Participants engaged in a fast-paced problem-solving race, where communication, logical reasoning, and time management proved just as important as programming skills. The event created an atmosphere of thrill and collaboration, encouraging participants to push their limits while fostering teamwork and camaraderie. Code Relay stood out as a perfect blend of competition and cooperation, reflecting the spirit of Murious and ACM's commitment to nurturing both technical excellence and collaborative learning. (Number in Attendance: 60, March 1, 2025)



6.5.6.10 App Development BootCamp

As part of its knowledge-sharing initiatives, ACM JUIT organized an App Development Session that introduced students to the exciting world of mobile applications. The session focused on the basics of app development, where participants explored concepts like app architecture, user interface design, and integrating core functionalities. Through guided explanations and practical demonstrations, students gained hands-on exposure to how different components of an app come together to form a complete product. The session not only built a solid foundation for beginners but also encouraged participants to think creatively about solving real-world problems through apps. By the end, attendees walked away with clarity on the fundamentals and the motivation to further explore app development, reflecting ACM's aim of equipping students with industry-relevant skills and nurturing innovation.. (Number in Attendance: 50, March 4-7, 2025)



6.5.6.11 Adventum

Adventum, the flagship event of ACM JUIT, unfolded as a vibrant three-day celebration of innovation, competition, and creativity. Bringing together tech enthusiasts from diverse domains, the fest combined intense technical challenges with engaging non-technical activities, ensuring something for everyone. The first day began with a grand inauguration ceremony, marking the official start of the fest and setting the tone for an action-packed journey ahead. This was followed by two inspiring speaker sessions—the first by Akshay Saini, Founder of Namaste Dev and ex-Software Engineer at Uber, who shared insights on coding, career growth, and the power of consistency, and the second by Ms. Rudrakshi Soni, SDE-1 at Amazon, who spoke about her professional journey, industry experiences, and the importance of perseverance in the tech world. Participants then dived into Paederus 3301, a multi-day puzzle hunt filled with riddles and problem-solving challenges that tested both intellect and perseverance. The day also featured a Cyber security Bootcamp for first-year students, equipping them with Linux fundamentals, security basics, and real-world applications. The evening closed with a lively jamming session in collaboration with the Leo Club, giving participants a refreshing platform to relax and interact through music. Day two carried forward the momentum with Biogenesis, a six-hour ideathon dedicated to BI/BT students, encouraging them to brainstorm and propose innovative solutions to real-world problems. Alongside, an insightful speaker session by Vaibhav Munjal, Co-founder of Chalchitra Talks, engaged students with his journey through creativity, storytelling, and community building. The highlight of the day was Hache, the 12-hour cybersecurity marathon that challenged participants to identify vulnerabilities, decrypt codes, and solve intricate real-world scenarios. Balancing the technical intensity, the evening concluded with Gaming Mania, where students competed in popular titles such as Valorant, Tekken, and FIFA, enjoying a lighter end to the day. The final day focused on creativity and all-round technical excellence. It began with Pixel Wars, a design competition where participants showcased their imagination and precision, followed by AI Dungeon Escape, an immersive puzzle adventure across Past, Present, and Future timelines. Teams then faced the Tech Triathlon, a three-round contest that tested coding, bug fixing, and DSA knowledge in a comprehensive challenge of skill and strategy. The event drew to a close with a celebratory night near the Vivekananda Statue, where music, lights, and energy brought together all participants to reflect on three days of learning, collaboration, and celebration. Adventum once again stood as a testament to ACM JUIT's vision of fostering innovation, problem-solving, and community spirit. With its exciting blend of technical rigor, creative challenges, and engaging activities, the fest not only strengthened participants' skills but also left them with lasting memories of teamwork, inspiration, and joy. (Number in Attendance: 300, March 27–29, 2025)



6.5.6.12 AI/ML Bootcamp

The AI/ML Bootcamp emerged as one of the most impactful technical initiatives of ACM JUIT, designed to bridge the gap between curiosity and practical knowledge in artificial intelligence and machine learning. The bootcamp catered to both beginners and enthusiasts, ensuring that students from all backgrounds could actively participate and benefit. The sessions covered a spectrum of essentials—starting with the basics of AI and progressing into key machine learning concepts such as data handling, model building, and evaluation. Participants explored real-world applications through hands-on exercises, gaining exposure to how algorithms like regression, classification, and clustering drive everyday technologies. What made the bootcamp truly engaging was its practical approach, where students not only learned the theory but also implemented small projects and experiments to strengthen their understanding. This balance of explanation and practice fostered confidence, creativity, and problem-solving skills. The AI/ML Bootcamp added immense value to the tenure by empowering students with industry-relevant skills, nurturing their interest in one of the most sought-after fields of technology, and laying a strong foundation for their future explorations in AI-driven innovation. (Number in Attendance: 60, April 21-23, 2025)



6.5.6.13 Open-Source Odyssey

Bringing the tenure to a fitting close, ACM JUIT organized Open-Source Odyssey, a long-term initiative designed to introduce first-year students to the culture of open-source development and collaborative problem-solving. Unlike short-format contests, this event

provided participants with the opportunity to immerse themselves in real-world projects over an extended timeline. In teams, first-year students were given the freedom to select a domain-specific project aligned with their interests, ranging from web development and app design to AI/ML, cyber security, and other emerging technologies. Each team worked under the guidance of second-year mentors, who not only provided technical support but also shared their own experiences of project building, teamwork, and best practices in open-source contribution. Spanning a period of 1.5 months, the event emphasized consistency, self-learning, and collaboration. Students experienced the entire development cycle—planning, coding, testing, and presenting their solutions—mirroring real-world industry workflows. This format encouraged them to go beyond surface-level learning and gain practical insights into how projects evolve over time. As the culmination of the tenure, Open-Source Odyssey stood out as more than just a competition; it was a mentorship-driven platform that built confidence among first-years, strengthened peer-to-peer learning, and instilled the values of community contribution. The event not only highlighted ACM JUIT's dedication to fostering technical excellence but also ensured a meaningful and lasting impact on the next generation of developers. (Number in Attendance: 90, June 7 – July 25, 2025)



6.5.7 SIAM JUIT Student Chapter Final Report 2024-25

This document serves for internal purposes of the Chapter only and should be perceived as an overview of Chapter activities in the past year extending the information filled out in the Final Report online form provided by SIAM.

Date of report: 15 August, 2025

Student Chapter: Jaypee University of Information Technology, India Chapter of SIAM

Chapter Website: <https://siamjuit.vercel.app/>

Chapter LinkedIn Page:

<https://in.linkedin.com/company/siamiuit>

Chapter Instagram Handle:

<https://www.instagram.com/siamjuit/>

Chapter YouTube Handle:

<https://www.youtube.com/@siamjuit>



Chapter Listing at SIAM Website: <https://www.siam.org/students-education/studentchapters/student-chapter-directory#Jaypee-University-of-Information-Technology-Student-Chapter>

Faculty Advisor: Prof. (Dr) Vivek Kumar Sehgal

Executive Committee Members: President, Vice President, Secretary, Joint Secretary, Treasurer, Webmaster Research Head.

6.5.7.1 Orientation

The SIAM (Society for Industrial and Applied Mathematics) JUIT Chapter marked a significant achievement by successfully concluding its orientation for the incoming batch of Fall 2024. Held on Wednesday, September 18, 2024, the event drew a remarkable turnout, with eager students seeking to gain insight into the workings of this esteemed chapter at their university. The atmosphere in the orientation hall buzzed with enthusiasm, reflecting the palpable excitement among attendees to become part of the prestigious SIAM Chapter. The orientation began with an introduction to SIAM as an internationally recognized organisation dedicated to promoting the application of mathematics in various industrial and practical contexts. Mr. Anant Sharma, President of the chapter, set the tone with an engaging presentation. He delved into the intricate details of chapter operations and passionately articulated the reasons why joining SIAM presents an exceptional opportunity for students. Faculty Advisor, Prof. (Dr.) Vivek Kumar Sehgal, addressed the students, adding to the motivation and prestige of SIAM membership. Dr. Sehgal emphasised the importance of SIAM in the academic and professional journey of students, highlighting how SIAM opens doors to a world of possibilities at the intersection of mathematics, computation, and technology. In essence, SIAM represents the convergence of coding, logic building, and mathematics, forming the foundation for advancements in computational mathematics, coding, machine learning, data science, and the pursuit of limitless knowledge. Members of SIAM enjoy numerous benefits, including dual activity group memberships, exclusive conference registration discounts, access to annual conference travel awards exceeding \$320,000, international networking opportunities, and valuable job search resources through the organisation's job board.

The SIAM JUIT Chapter's orientation for the Fall 2024 batch was an overwhelming success, setting the stage for students to embark on a journey of exploration and excellence in the realm of mathematics and its real-world applications. With dedicated leadership and a commitment to empowering students, SIAM promises to be a beacon of opportunity and growth for all its members. As the new academic year begins, SIAM JUIT Chapter invites all interested students to join this thriving community and be part of a transformative mathematical adventure.





6.5.7.2 SIAM JUIT Hosts Successful Recruitment Drive for New Members

JUIT, Wagnaghat, September 29, 2024 — The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter successfully concluded its annual Recruitment Drive on September 27-28, 2024, attracting a pool of enthusiastic students eager to join the chapter. The event served as a platform to identify individuals with a strong interest in applied mathematics, problem-solving, and research, while also providing an introduction to the chapter's initiatives and opportunities. The recruitment process was designed to go beyond traditional membership registration. Prospective members interacted directly with the core committee, enabling them to gain first-hand insights into the chapter's vision, structure, and ongoing projects. These discussions encouraged



open dialogue, allowing participants to share their aspirations, career interests, and ideas for contributing to SIAM JUIT's mission. Candidates showcased their analytical skills, creativity, and enthusiasm, demonstrating qualities that align with the chapter's core values of academic excellence, innovation, and collaboration. This two-day interaction also gave the committee an opportunity to assess the potential of each applicant—not only in terms of technical expertise but also in their ability to work as part of a team and contribute meaningfully to the chapter's growth. Throughout the drive, Prof. (Dr.) Vivek Kumar Sehgal, the Faculty Advisor of SIAM JUIT, provided continuous guidance and support, ensuring a smooth and well-organized process. The chapter also extends heartfelt gratitude to Vice Chancellor Prof. (Dr.) Rajendra Kumar Sharma for his encouragement and support in fostering an environment where academic and professional development thrive. With a talented group of new members on board, SIAM JUIT looks forward to a productive year ahead—one filled with innovative events, impactful collaborations, and initiatives that advance the practical applications of mathematics. The chapter remains committed to nurturing talent, inspiring curiosity, and building a vibrant community of problem-solvers at JUIT.



6.5.7.3 Distinguished Speaker Session: Dr. Chris Bemis

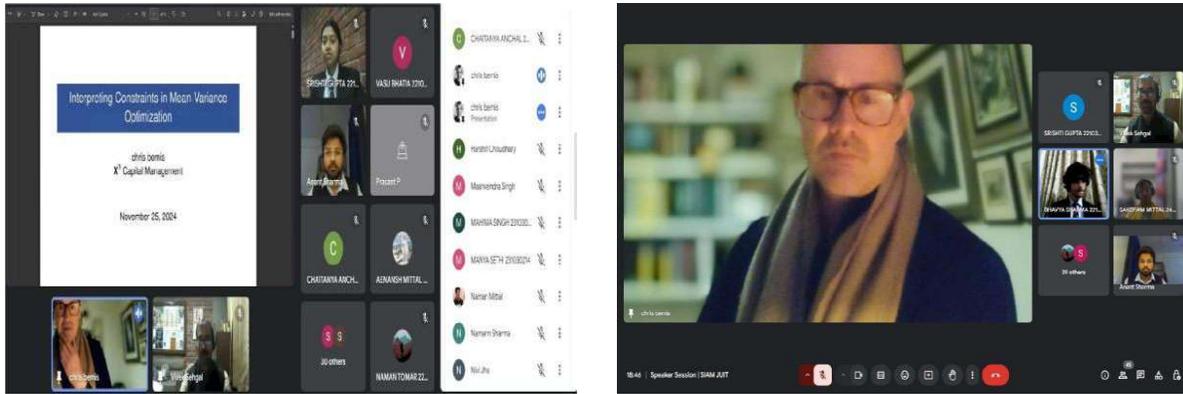
JUIT, Wagnaghat, November 26, 2024 — The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter had the distinct privilege of hosting an intellectually stimulating guest lecture by Dr. Chris Bemis, Head of Quantitative Analysis and Research at Whitebox Advisors, Minneapolis, Minnesota, U.S., and Adjunct Professor at the University of Minnesota. With an exceptional academic background—B.S., M.S., and Ph.D. in Mathematics/Applied Mathematics—Dr. Bemis brings a rare combination of deep theoretical expertise and extensive industry experience in quantitative finance. As a leader responsible for researching, implementing, and supporting quantitative strategies for hedge fund trading, he occupies a role that sits at the cutting edge of mathematical application in

the financial sector. The session, titled “Interpreting Constraints in Mean-Variance Optimization”, was delivered to an audience of graduate and undergraduate mathematics students, research scholars, and faculty members. It offered an in-depth exploration of how constraints in portfolio optimization—often perceived as limitations—can instead be interpreted as valuable information that improves decision-making. Dr. Bemis began by outlining the classical mean-variance optimization framework, explaining its goal of constructing portfolios that balance return and risk. He then systematically highlighted well-documented shortcomings of the unconstrained model, including its tendency to produce undiversified portfolios, high sensitivity to estimation errors, and impractically large short positions. From there, Dr. Bemis transitioned to proposed solutions in the literature, such as statistical factor models, robust optimization techniques, Bayesian updates, shrinkage methods, and random matrix theory. He gave particular emphasis to the work of Jagannathan and Ma, whose findings inspired his own generalized modification to the sample mean and covariance matrix by incorporating portfolio constraints as informative priors. One of the key contributions of the lecture was reframing constraints not merely as external impositions, but as information-rich conditions that can shape more realistic and stable portfolio solutions. Drawing analogies from physics, including Boltzmann’s “method



of the most probable distribution” and E.T. Jaynes’ work on maximum entropy, he demonstrated how constraints influence probability distributions in a mathematically rigorous way. This perspective positioned constraints as integral to the optimization process, much like physical laws shape system behavior. Dr. Bemis walked the audience through the mathematical derivation of his approach, presenting a constrained maximum likelihood problem informed by portfolio constraints. He illustrated how mean and covariance estimates can be systematically modified based on Lagrange multipliers derived from these constraints, producing solutions that preserve feasibility, enhance diversification, and reduce sensitivity to input errors. Real-world applications were not left out—he provided concrete examples involving value exposure constraints, explaining how such conditions impact portfolio structure both through covariance modification and mean return adjustment. His empirical demonstrations showed how these methods lead to portfolios with more desirable factor exposures, even when explicit constraints are later removed. Beyond the technical content, Dr. Bemis offered reflections on the gap between theoretical financial models and their practical implementation in industry. He discussed “what works and what doesn’t” in real-world mathematical finance, offering candid insights into challenges such as data quality, transaction costs, and model risk. His commentary reinforced the importance of grounding mathematical models in the realities of markets and investor behavior. The session was highly interactive, with participants asking questions ranging from the role of Bayesian inference in portfolio construction to the implications of constraints in high-dimensional investment universes. Dr. Bemis’s clear, structured explanations, coupled with his ability to relate abstract mathematics to practical financial strategies, made the lecture both intellectually rigorous and accessible to a diverse audience. In closing, Dr. Bemis’s presentation achieved more than just explaining an advanced optimization technique—it demonstrated the broader principle that mathematics, when thoughtfully adapted to incorporate real-world conditions, can be a powerful tool for solving complex industrial problems. His work and insights exemplify the mission of SIAM: fostering connections between mathematical theory, computation, and impactful applications in science, engineering, and industry.

The SIAM JUIT Chapter extends its deepest appreciation to Dr. Chris Bemis for his time, expertise, and willingness to share both the technical depth and practical relevance of his research. The lecture left participants with not only a deeper understanding of portfolio optimization but also an enriched perspective on the evolving role of mathematics in finance and beyond.



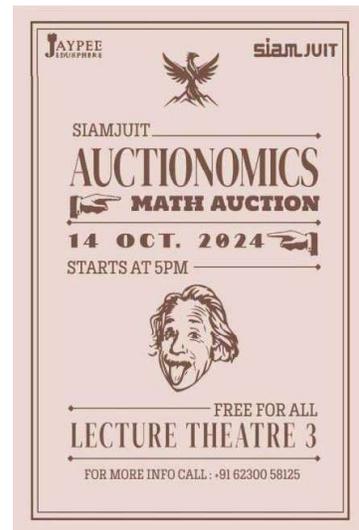
6.5.7.4 SIAM JUIT Hosts Auctionomics: A Dynamic Math Auction Inspiring Strategic Thinking and Teamwork

JUIT, Wagnaghat, October 27, 2024 — The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter successfully hosted its much-anticipated event, Auctionomics, a math auction that blended strategic thinking with mathematics in an engaging, team-based competition. The event took place on October 14 in Lecture Theatre 3 of Jaypee University of Information Technology, drawing an enthusiastic crowd of students eager to showcase their analytical and quantitative skills. Throughout the event, participants displayed remarkable skills, from quick mental calculations to effective team coordination, as they navigated rounds of bidding on increasingly complex problems. The atmosphere was filled with energy, as each team aimed to outbid their competitors and secure valuable points to emerge victorious.

SIAM JUIT ensured a fair and stimulating experience for all participants, structuring each round with diverse mathematical challenges to test a range of problem-solving abilities. Rounds included puzzles, probability questions, and rapid-fire calculations, each designed to encourage participants to think on their feet. “Auctionomics was a great way for us to apply math outside of textbooks and explore new techniques,” shared one of the participants, reflecting the enthusiasm shared by many attendees.

Participants themselves added to the excitement, cheering for their teammates and discussing the clever strategies employed during the bidding process. The interactive nature of Auctionomics helped bridge the gap between academic concepts and real-world applications, leaving a lasting impression on all involved.

SIAM JUIT's Chapter looks forward to making Auctionomics an annual event, given its resounding success and positive feedback. By fostering a fun and competitive environment, the chapter remains dedicated to enhancing students' understanding of mathematics and inspiring innovative applications. Auctionomics has set the stage for more such creative initiatives, encouraging participants to pursue mathematics with curiosity and confidence.



The event highlighted SIAM JUIT's commitment to making applied mathematics practical and enjoyable. Auctionomics showed the creativity and teamwork of students, bringing math to life in a fun, competitive setting. Prof. (Dr.) Vivek Kumar Sehgal, Faculty Advisor of SIAM JUIT, gave valuable support and guidance during the event's planning and execution. With an impressive display of talent and enthusiasm, Auctionomics has set a high standard for future events, inspiring participants and spectators alike.

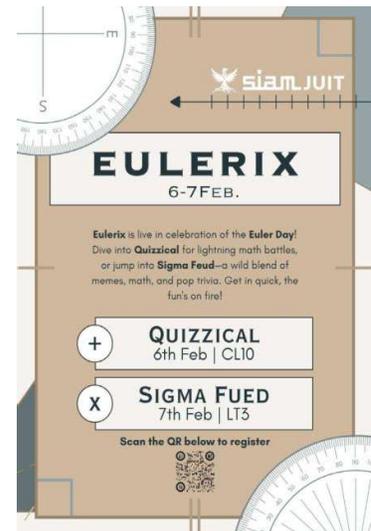


6.5.7.5 Eurelix: A Two-Day Academic Event Inspired by Euler Day

JUIT, Wagnaghat, February 08, 2024 — The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter proudly hosted Eurelix, a vibrant two-day celebration of mathematics and intellectual camaraderie, drawing inspiration from the renowned Euler Day. Designed to blend academic rigor with dynamic, interactive engagement, the event served as a platform for students to explore the versatility of mathematics beyond textbooks—through competition, collaboration, and creative thinking. Spanning February 6–7, 2025, Eurelix brought together enthusiastic participants from across departments, united by a shared passion for problem-solving and innovation. The meticulously planned lineup featured two flagship events, Quizzical and Sigma Feud—each with its own unique competitive structure, thematic focus, and intellectual challenges. Together, they formed a cohesive celebration of analytical skills, strategic thinking, and teamwork.

Quizzical, an inventive mathematics quiz, redefined the conventional quiz format. Conducted in Computer Labs 10 and 11, the competition paired participants into teams of two, introducing a distinctive alternating format: in some rounds, team members collaborated to solve problems, while in others, they worked individually as their partner awaited the next turn.

This switching mechanism tested adaptability, communication, and mental agility, ensuring that both participants contributed equally to their team's success. The range of challenges



was diverse and demanding—algebra, probability, number theory, geometry, logical reasoning, and applied mathematics formed the core of the question pool. Some rounds required lightning-fast calculations under time constraints, while others encouraged lateral thinking and creative approaches.

The energy in the labs was palpable, with moments of quiet concentration giving way to applause as teams cracked particularly tough problems. The format encouraged peer learning and highlighted the importance of balancing individual strengths with collective strategy, making Quizzical an ideal curtain-raiser for the event.

Building on this momentum, Sigma Feud, a quiz-based competition, brought humor, energy, and audience interaction to the forefront. Hosted by Mr. Anant Sharma, President of the chapter, and Mr. Naman Tomar, Webmaster of the chapter, the event followed a survey-response format that encouraged teams to predict the most popular answers to a range of prompts spanning mathematics, technology, and general knowledge.

With four members per team, drawn from varied academic disciplines, Sigma Feud celebrated diversity in thought and perspective. The rounds—Mathematics Mania, Tech Talk, and General Knowledge Grid—offered a balanced blend of STEM-oriented and humanities-focused challenges. The hosts' dynamic chemistry kept the audience engaged, while participants showcased quick thinking, intuition, and teamwork. Audience reactions—cheers, laughter, and suspense—added to the charged atmosphere, making the competition as entertaining as it was intellectually stimulating. More than a collection of competitions, Eurelix was a celebration of learning, community, and the joy of intellectual challenge. The two events complemented each other perfectly: Quizzical emphasized precision, adaptability, and deep problem-solving, while Sigma Feud highlighted quick wit, collective strategy, and the ability to think creatively under pressure. Both created spaces where participants could learn from one another, strengthen their academic confidence, and enjoy the process of applying knowledge in real-time challenges.

The success of Eurelix was reflected not just in the high level of participation and enthusiastic feedback, but also in the sense of connection it fostered within the student community. It strengthened the SIAM JUIT Chapter's presence on campus and reinforced its mission to inspire curiosity, promote interdisciplinary collaboration, and create platforms for students to engage with mathematics in innovative ways.

With its blend of rigorous challenge and engaging formats, Eurelix has established itself as a flagship annual event for SIAM JUIT—one that promises to grow in scale and impact in the years ahead, continually encouraging students to think critically, collaborate effectively, and approach mathematics with both seriousness and joy.

Day 1: Quizzical—A Strategic Mathematics Quiz Promoting Collaboration and Individual Excellence

The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter commenced its two-day mathematical celebration with Quizzical, an innovative and intellectually stimulating quiz competition designed to integrate teamwork with individual problem-solving excellence. Held in Computer Lab 10 of Jaypee University of Information Technology, the event attracted a diverse group of students, all eager to test their mathematical aptitude, logical reasoning, and quick-thinking abilities in a competitive yet collaborative environment.

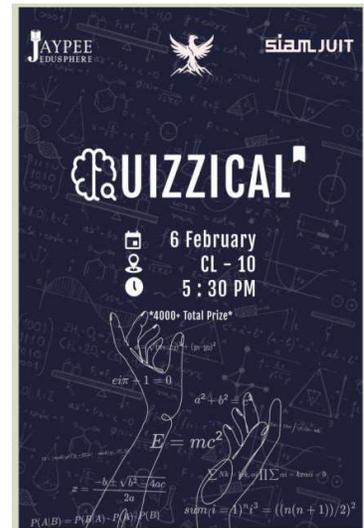
The format of Quizzical set it apart from conventional quiz competitions. Each team comprised two members, and the rounds were structured to alternate between collaborative problem-solving and individual performance. In certain rounds, one member of the team would be tasked with solving questions independently within a limited time frame, while in the next, the partner would take over. This unique switching mechanism required participants to adapt swiftly, maintain mental agility, and ensure strong coordination to achieve success.

The competition featured multiple rounds, each with its own distinctive theme and set of challenges. Questions covered a broad range of topics including algebra, probability, number theory, geometry, logical puzzles, and applied mathematics. Some rounds demanded precise calculations under strict time constraints, while others encouraged lateral thinking and innovative approaches. The mix of question formats kept participants on their toes, ensuring a lively and stimulating experience throughout.

The environment inside the labs was charged with enthusiasm and intellectual energy. The quiet intensity of participants working through challenging problems was often interrupted by bursts of applause as teams cracked particularly tough questions. Observers and fellow participants contributed to the lively atmosphere, offering encouragement and celebrating moments of brilliance.

Beyond being a test of knowledge, Quizzical served as a platform to promote peer learning and the practical application of mathematical concepts beyond the classroom. The event fostered strategic thinking, quick decision-making, and effective communication—skills that are as important in professional life as they are in academic competitions.

Given the overwhelmingly positive response from both participants and spectators, SIAM JUIT aims to include Quizzical as a permanent fixture in its annual event calendar. By initiating this year's celebration with such an engaging and thought-provoking activity, the chapter reaffirmed its commitment to creating opportunities for students to explore mathematics in innovative, challenging, and enjoyable ways.



Day2: Sigma Feud –An Engaging Quiz-Based Competition of Wit and Knowledge

The SIAM (Society for Industrial and Applied Mathematics) Chapter of Jaypee University of Information Technology, Solan (HP) successfully organized Sigma Feud on 7th February 2025, an engaging quiz-based competition inspired by the popular Family Feud format. While adopting the familiar interactive game-show style, Sigma Feud was uniquely tailored to the academic and intellectual community, with prompts drawn from mathematics, technology, and general knowledge. The event aimed to foster quick thinking, collaborative problem-solving, and a sense of camaraderie among participants. It also served as a platform for students to experience an energetic yet intellectually stimulating competition.

The competition followed a survey-response format in which two teams competed head-to-head to guess the most popular answers to a series of prompts. Each team comprised four participants from diverse academic backgrounds, ensuring variety in thought and approach. The rounds were designed to test different aspects of knowledge and thinking:

- (a) Mathematics Mania focused on logical reasoning, problem-solving, and mental agility.
- (b) Tech Talk revolved around computing concepts, emerging technologies, and industry trends.
- (c) General Knowledge Grid covered history, science, current affairs, and culture.

Points were awarded based on the popularity of answers, with bonus points for complete answer sets. This structure ensured a healthy mix of STEM-oriented and general knowledge challenges, keeping the event aligned with SIAM's mission while also maintaining a high entertainment value.

The event was hosted by Mr. Anant Sharma, President of the Chapter, and Mr. Naman Tomar, Webmaster of the SIAM Chapter. Their on-stage chemistry brought warmth, humor, and energy to the proceedings, ensuring the audience remained engaged from start to finish. Mr. Naman Tomar, in particular, captivated the crowd with his witty remarks, quick comebacks, and masterful pacing of the game, while Mr. Anant Sharma complemented this by steering the narrative, encouraging participants, and ensuring a smooth progression between rounds. Their dynamic hosting style not only kept participants motivated but also ensured the audience felt like an active part of the experience.

The event drew 40+ teams from across multiple departments, creating a lively, competitive environment. Participants were enthusiastic, showing equal parts strategy, quick thinking, and humor in their responses. The audience played a significant role—cheering their peers, reacting to surprising answers, and adding to the high-energy atmosphere. The room was filled with both laughter and moments of intense anticipation, making the event memorable for everyone present. Many participants expressed that Sigma Feud stood out from typical quiz events because it encouraged creative and unconventional thinking, rewarding insight



and intuition as much as factual knowledge.

The event's success was reflected in its vibrant energy, strong turnout, and the positive feedback received. Participants enhanced their teamwork, analytical thinking, and quick decision-making abilities. Students from various academic backgrounds interacted and collaborated in a lighthearted setting, further strengthening the bonds within the student community. The event also increased the visibility of the SIAM Chapter in campus life, attracting interest in future activities. Given the enthusiasm from both participants and spectators, Sigma Feud has strong potential to become an annual tradition of the Chapter. The SIAM Chapter expresses sincere gratitude to Mr. Anant Sharma and Mr. Naman Tomar for their exceptional hosting and leadership; to the organizing committee for meticulous planning and flawless execution; to Prof. Vivek Kumar Sehgal, Faculty Advisor, for his guidance and support; to the volunteers and technical staff for ensuring smooth operations; and to all participants and attendees for their spirited involvement.

Sigma Feud proved to be an enriching blend of intellectual challenge, teamwork, and entertainment. Through the dedication of the SIAM Chapter Council, the charisma of its hosts, and the enthusiasm of participants, the event succeeded in creating an inclusive and memorable experience. The chapter looks forward to building on this success in future editions.



6.5.7.6 Distinguished Speaker Session: Dr. Gary Green

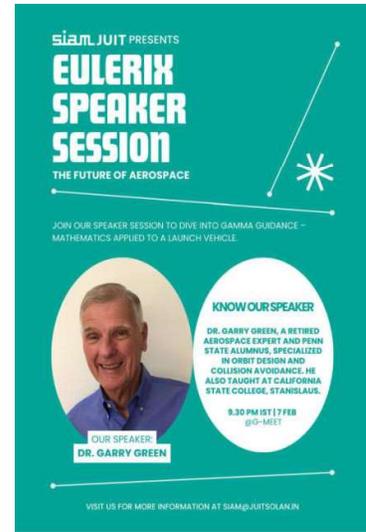
JUIT, Wagnaghat, February 8, 2025 – The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter had the privilege of hosting an enlightening online lecture by Dr. Gary Green, Retiree Casual at The Aerospace Corporation. With a distinguished career in aerospace engineering and applied mathematics, Dr. Green brought a wealth of experience to the session titled “Gamma Guidance: Mathematics Applied to a Launch Vehicle”. In his presentation, Dr. Green explored the critical and complex role that mathematics plays in the guidance and trajectory control of launch vehicles. Drawing from decades of hands-on industry expertise, he bridged the gap between advanced theoretical concepts and their real-world implementation in aerospace systems. The talk vividly

demonstrated how precise mathematical modeling underpins the success of rocket launches, where accuracy is paramount and the margin for error is nonexistent. Dr. Green began by correlating the highly theoretical framework of gamma guidance with its practical applications in ensuring a rocket’s optimal flight path. He emphasized that modern-day mathematicians working in such domains must be multidisciplinary, possessing not only mathematical proficiency but also substantial knowledge of related fields such as engineering, physics, and computer science.

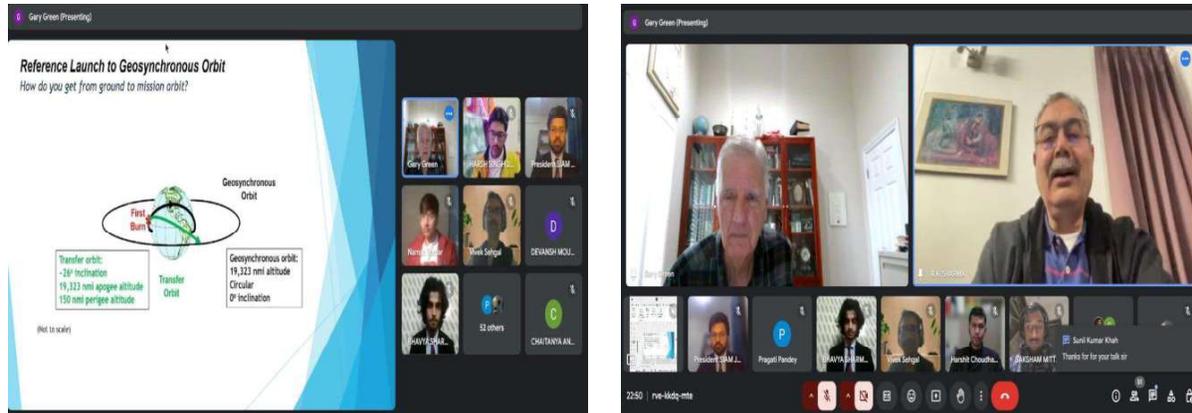
This broader skill set, he argued, enables a more complete understanding of the problems and challenges inherent in complex technological systems. A major focus of the session was the practical implementation of theoretical solutions. Dr. Green explained that while formulating solutions on paper is a crucial first step, the actual process of deploying these solutions in aerospace systems is far more intricate. Often, robust numerical methods are required to translate theoretical models into actionable, precision-driven outputs that can withstand the unforgiving demands of a live launch scenario. Using the example of placing a satellite into geosynchronous orbit, Dr. Green illustrated the high stakes involved. Such missions require pinpoint accuracy, as even the smallest deviation can lead to mission failure. He underscored that in this field, solutions must work flawlessly—every single time. The immense pressure of these requirements serves as both a challenge and a testament to the essential role of mathematics in aerospace engineering.

Beyond the technical details, Dr. Green spoke about the mindset needed to excel in high-stakes, multidisciplinary environments. He stressed that success requires not only computational skill but also agility, adaptability, and a fluid mathematical way of thinking—qualities that foster creative problem-solving when faced with unforeseen challenges.

The seminar concluded with an engaging Q&A session where participants inquired about both the technical aspects of gamma guidance and broader career advice for aspiring mathematicians and engineers. Dr. Green’s clear explanations and industry insights left attendees with a deeper appreciation of the interplay between mathematical theory and cutting-edge technological innovation.



The SIAM JUIT Chapter extends its gratitude to Dr. Gary Green for his time, expertise, and willingness to share his deep understanding of mathematics in aerospace applications. The session not only expanded students' technical knowledge but also reinforced the broader lesson that mathematics, when applied with precision and creativity, is a cornerstone of progress in some of the most advanced sectors of modern industry.



6.5.7.7 PRDX 2025: A Four-Day Celebration of Innovation, Strategy, and Creative Thinking

JUIT, Wagnaghat, March 26, 2025 – The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter proudly presented PRDX 2025, a four-day intellectual extravaganza designed to challenge the mind, spark creativity, and reimagine how mathematical thinking can be applied to dynamic, real-world scenarios. Hosted in the vibrant and collaborative environment of Jaypee University of Information Technology, the event drew enthusiastic participation from across disciplines, transforming lecture theatres, computer labs, and campus spaces into buzzing hubs of problem-solving, design innovation, and strategic thinking.

PRDX 2025 was not simply a string of events, but an intricately curated journey that engaged participants across multiple dimensions of intellectual growth. The opening day set the tone with Latent Unfiltered, an unconventional ideation arena where imagination met mathematics in its most creative form. Teams were tasked with pitching innovative concepts subtly underpinned by mathematical principles, blending originality, feasibility, and analytical depth. The atmosphere was charged with energy as participants delivered compelling presentations before an engaged audience and an expert jury, sparking discussions that carried well beyond the event hall.

The momentum carried into Rebuild, a high-intensity, skill-driven challenge aimed at testing technical acumen, design sensibility, and adaptability under time constraints. Individual participants were assigned pre-existing websites and tasked with revamping them for enhanced functionality, improved UI/UX, and increased user engagement. Many competitors integrated advanced features such as interactive elements, responsive layouts,



and optimized navigation systems, demonstrating not just coding and design skills but also an acute understanding of user behavior. The winning entries, applauded for their ingenuity and execution, earned exclusive SIAM JUIT merchandise, marking their achievement in style.

The final phase of PRDX 2025 spanned two days and offered a deeply immersive experience through the 3D Modelling Workshop. Designed as a hands-on introduction to professional 3D design tools, the workshop enabled participants to grasp both the theoretical foundations and the practical applications of digital modelling. Under expert guidance, attendees created and refined intricate models, experimenting with shapes, textures, and rendering techniques. This segment not only showcased the creative possibilities of technology but also highlighted its relevance in industries ranging from engineering and architecture to game design and animation.

What truly united these diverse events was a shared purpose: to make mathematics and analytical thinking exciting, approachable, and profoundly relevant beyond the confines of traditional academics. PRDX 2025 achieved this by seamlessly blending competitive rigor with creative exploration, encouraging peer learning, and fostering cross-disciplinary collaboration. The event spaces were alive with the hum of discussions, bursts of applause for standout performances, and the quiet intensity of participants immersed in their challenges.

By the time PRDX 2025 concluded, it had left more than just winners and memorable moments—it had created a community of thinkers, innovators, and learners eager to carry forward the spirit of exploration. With its balance of intellectual challenge, creative freedom, and collaborative spirit, PRDX 2025 stood as a testament to SIAM JUIT's mission of inspiring students to see the beauty, power, and applicability of mathematics in every sphere of life. This year's edition not only met expectations but also set a new benchmark for future events, reaffirming the chapter's place as a vibrant force in JUIT's academic and cultural landscape.

DAY 1—Latent Unfiltered: Where Creativity Meets the Language of Mathematics

The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter redefined what it means to think outside the box with its flagship ideation event, *Latent Unfiltered*. Conceptualized as a space where the spark of imagination meets the precision of numbers, this competition challenged participants to craft and pitch original ideas rooted whether overtly or subtly in mathematical thought. It was not simply about solving equations or reciting formulas, but about demonstrating that mathematics could serve as the foundation for creativity that impacts the real world.

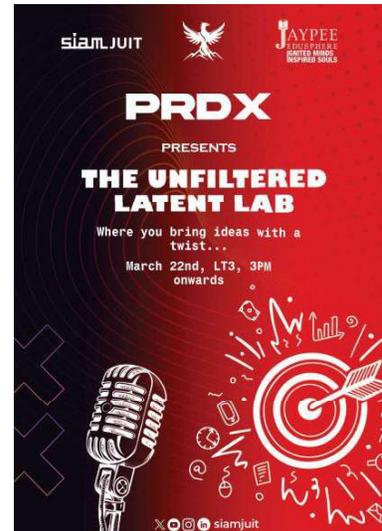
The twist lay in the rules: while the scope of ideas could stretch across any imaginable domain—technology, design, sustainability, education, or even art, every concept had to contain a mathematical backbone, however minimal. This catch transformed the event from a standard pitch competition into a rigorous test of ingenuity. Participants had to think deeply about how to integrate mathematical logic into their proposals without making it feel forced, ensuring that innovation and analytical structure went hand in hand. It was a delicate balance, and the challenge pushed every team to operate at the intersection of creativity and discipline.

The event drew an astounding 27+ teams, later reorganized into smaller groups of two to four for the main stage showdown.

Laptops hummed quietly, charts and diagrams peeked out from notepads, and there was an unmistakable undercurrent of friendly rivalry in the air. Every participant knew they were stepping into an arena where wit, knowledge, and presentation skills would all be tested in equal measure.

But *Latent Unfiltered* was more than just a display of ideas—it was a full-spectrum test of delivery, adaptability, and charisma. The evaluation rubric was as strategic as the event itself: skills, vocation, performance, and ingenuity carried equal weight in the final scores. This meant that a technically brilliant idea could not rely solely on its logic; it had to be communicated in a way that captured hearts as much as it convinced minds. Some participants leaned into a “Steve Jobs reveal” style, pacing the stage with intentional pauses and unveiling their “next big thing” with dramatic timing. Others took a lighter route, using humor, relatable anecdotes, and quick improvisation to keep the audience engaged while subtly reinforcing the mathematical essence of their idea.

In the end, *Latent Unfiltered* was a reminder that mathematics is not merely a subject to be studied but a versatile canvas upon which some of the most impactful and imaginative ideas can be painted. And for everyone in those hall participants, jury, and audience alike the event was proof that unfiltered ideas, when given the right stage, can shine brighter than any scripted plan.



Day 2 – REBUILD: Redesign, Reinvent, and Revamp

Day 2 of PRDX 2025 unfolded with REBUILD, an event that turned the spotlight on web creativity and the art of transformation. While many competitions focus purely on coding or problem-solving, REBUILD was different. It challenged participants to think like both developers and designers, to breathe new life into an existing website and make it more attractive, functional, and engaging for users.

Under the insightful leadership of Mr. Anant Sharma, President of the chapter, and the constant guidance of Mr. Parth Gupta, Vice President, the event was meticulously organized by the SIAM JUIT team, with Omansh playing a significant role in managing logistics, guiding participants, and ensuring the event ran without a hitch.

The task given to participants was deceptively simple: choose a website from the provided options and rebuild it with enhancements that would set it apart. The freedom to choose their direction meant that participants could focus on different priorities improving UI and UX, restructuring layouts for better navigation, boosting performance, or adding interactive elements that could capture and retain user attention.

The creative energy in the room was unmistakable. Some participants opted for bold visual redesigns, transforming cluttered pages into clean, minimalistic layouts that conveyed clarity and professionalism. Others pushed boundaries by integrating subtle animations, engaging hover effects, and dynamic content sections that made the sites feel modern and alive. Many also focused on user inclusivity, ensuring that their designs were mobile-friendly and accessible to users of different abilities.

What made REBUILD truly engaging was the variety of approaches taken. A few participants concentrated heavily on the aesthetics, experimenting with color palettes, typography, and visual hierarchy. Others placed equal weight on backend optimizations reducing load times, streamlining code, and improving SEO potential to make the sites more discoverable.

The judging panel evaluated each project across multiple dimensions: visual appeal, usability, functionality, originality, and the rationale behind the changes made. It was not enough to simply make a site look good; the improvements had to be purposeful, grounded in real-world design principles, and aligned with the needs of the intended audience.

When the final presentations began, the transformed websites spoke for themselves. Screens lit up with designs that demonstrated not just creativity, but a deep understanding of how form and function complement one another in web development. The winners, recognized for their exceptional vision and execution, were awarded exclusive SIAM JUIT merchandise as a celebration of their achievement.

REBUILD proved that the future of web design lies in the ability to merge creativity with technical skill. It was a day where participants pushed beyond the ordinary, exploring how



a thoughtful redesign can elevate a user's online experience. On Day 2 of PRDX 2025, they showed that rebuilding is not just about changing how something looks—it is about reimagining what it can be.

Day 3 & 4—Modelling Workshop—The Creative Finale of PRDX 2025

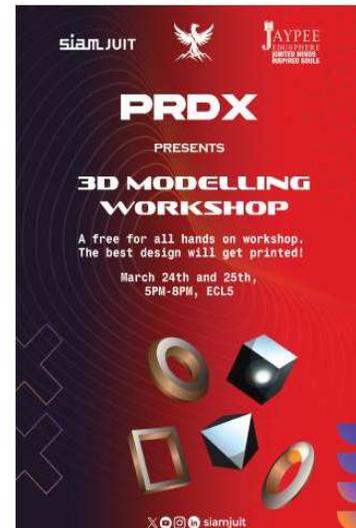
Rounding off the PRDX 2025 lineup, the SIAM (Society for Industrial and Applied Mathematics) Chapter of Jaypee University of Information Technology, Solan (HP) hosted a two-day 3D Modelling Workshop on 24th and 25th March 2025. Designed to introduce students to the fundamentals of 3D design and provide them with hands-on experience using professional software tools, the workshop blended structured technical learning with creative exploration. It aimed not only to build core skills but also to inspire participants to see 3D modelling as a potential career path, closing the event series on an engaging and forward-looking note.

On the first day, Mr. Anant Sharma, President of the chapter, and Mr. Parth Gupta, Vice President of the chapter, jointly led the theory sessions. They provided participants with a clear and comprehensive overview of basic geometric block figures, interlocking mechanisms, and the foundational theory behind gears, spirals, and bevel gears. These concepts were demonstrated and explained using AutoCAD Fusion 360, a leading industry tool for 3D modelling. Mr. Anant Sharma also shared valuable insights into the career opportunities in 3D modelling, highlighting how the skill is increasingly in demand across multiple industries. Assisting them was Mr. Nandaya Vegad, a second-year core member of the chapter, who took a one-on-one approach to clear individual doubts and guide participants through the more challenging concepts.

The second day focused entirely on application. Participants used their newly gained knowledge to create their own 3D designs in Fusion 360, experimenting with shapes, mechanisms, and design aesthetics. At the end of the session, all designs were reviewed, and the best creation was selected to be 3D-printed using the college's IT Lab facilities. The winning model was successfully printed and presented to its designer, offering a tangible reward and a moment of pride for both the participant and the organizing team.

The event saw enthusiastic solo participation from students across various departments. For many, this was their first hands-on exposure to 3D modelling, and they expressed appreciation for the approachable and interactive teaching style. The supportive environment fostered by the instructors, combined with the excitement of seeing a digital design brought to life through 3D printing, created a highly engaging and memorable experience.

The SIAM Chapter extends its gratitude to Mr. Anant Sharma, Mr. Parth Gupta, and Mr. Nandaya Vegad for their dedication, expertise, and efforts in making the workshop both informative and enjoyable. The seamless execution of the event was made possible by the chapter's organizing team and the support of the college's IT Lab staff.



The 3D Modelling Workshop successfully combined education, creativity, and innovation, leaving participants inspired to explore more in the realm of design and technology. The SIAM Chapter looks forward to organizing similar initiatives that continue to equip students with future-ready skills while keeping learning interactive and rewarding.



6.5.7.8 Distinguished Speaker Session: Dr. Derek Kane

JUIT, Wajnaghat – The Society for Industrial and Applied Mathematics (SIAM) JUIT Chapter had the privilege of hosting Dr. Derek Kane, Senior Optical Communications System Scientist at SubCom and former long-time engineer at DEKA Research & Development, for an insightful online seminar titled “The Ubiquity and Importance of Mathematics in Industry.” The event drew an engaged audience of students, research scholars, and faculty members eager to gain perspective from Dr. Kane’s four decades of applied mathematical work at the intersection of theory, engineering, and innovation.

Dr. Kane, who holds a B.S. in Mechanical Engineering from the Massachusetts Institute of Technology and a Ph.D. in Mathematics from the University of Michigan, has built a career applying mathematics to diverse fields, including thermodynamics, electromagnetics, optics, big data analysis, synthetic biology, human–machine interfaces, colloidal flows, and numerical methods for differential equations. His professional journey spans impactful roles in the U.S. Strategic Defense Initiative (“Star Wars program”), laser systems development at Lockheed Martin, and over 22 years at DEKA Research & Development.

The seminar centered on bridging the gap between university-level mathematics and its practical use in industry. Dr. Kane structured his talk around two central themes:

- (a) Mathematics as a universal tool for innovation – Drawing on his experiences across multiple sectors, Dr. Kane demonstrated that mathematical concepts, from differential equations to statistical modeling, are far more than abstract exercises; they are essential drivers of problem-solving, product development, and technological advancement. He emphasized that whether in designing optical



communication systems, modeling fluid dynamics, or interpreting large datasets, mathematics provides the foundation upon which modern engineering and science stand.

- (b) Adapting academic knowledge to real-world problems – Beyond computation, Dr. Kane stressed the importance of understanding the why behind the math. He encouraged students to focus on conceptual clarity and cultivate the ability to adapt mathematical principles to new and complex challenges—problems that do not come with ready-made solutions. He underscored the value of multidisciplinary awareness, recommending that aspiring professionals strengthen complementary skills in physics, programming, and engineering to become more effective problem-solvers.

The interactive question-and-answer session allowed participants to explore career development, the transition from academia to industry, and real-life examples of mathematical modeling in Dr. Kane's projects. His candid responses provided students with practical guidance on navigating professional paths in mathematically intensive fields.

In conclusion, the seminar offered a powerful reminder of the vital, adaptable, and far-reaching role of mathematics in industry. Dr. Kane's career—marked by intellectual curiosity, adaptability, and cross-disciplinary engagement—served as an inspiring model for students to apply their academic training toward meaningful contributions in the professional world.

The SIAM JUIT Chapter extends its sincere gratitude to Dr. Derek Kane for sharing his time, expertise, and professional insights. His lecture left attendees with a renewed appreciation for mathematics as both a career path and a tool for impactful innovation.



6.5.8 Publications: 2024-25:

6.5.8.1 Book(s):

Name of Faculty	Name of Book	Reference	Publisher
Ruchi Verma, Vipal Kumar Sharma, Pankaj Dhiman, Vivek Kumar Sehgal, Pradeep Kumar Gupta	International Conference on Image Information Processing (ICIIP) (7th)	[ISBN: 979-8-3503-7140-6], IEEE Xplore, Google Search	JUIT, Wagnaghat, Solan-173234, HP

Pardeep Kumar, Prabhishek Singh, Manoj Diwakar, Deepak Garg	Healthcare Industry Assessment: Analyzing Risks, Security, and Reliability (1st)	[ISBN: 978-3- 031-65433-6], Google Search	Springer Cham, London
Pardeep Kumar, Vivek Kumar Sehgal, Aman Sharma, Kushal Kanwar	International Conference on Parallel, Distributed and Grid Computing (PDGC) (8th)	[ISBN: 979-8- 3315-2134-9], IEEE, Google Search	Jaypee University of Information Technology, Solon, India

6.5.8.2 Book Chapter(s):

Name of faculty	Book Chapter Title	Name of Book	Reference	Remark
Nadia, Ekta Gandotra, Mohd Faizan Siddiqui	Deep Learning Ensembles in Translational Bioinformatics	Advances in Ubiquitous Sensing Applications for Healthcare,	pp. 1–15, [ISBN: 9780443222 993], Google Search	Academi c Press
Hari Singh, Piyush Sewal, D. C. Verma	A Predictive Analysis of the COVID-19 Pandemic for Traditional and Tree-Based Regression Algorithms	Impact of Digital Solutions for Improved Healthcare Delivery (1 st)	pp. 303–340, [ISBN: 9798369352 373], Google Search	IGI Global, Australia
Monika, Aman Sharma, Rakesh Kumar Bajaj	On Clustering Analysis Under Novel Similarity Measures of T- Spherical Fuzzy Hypersoft Sets	Algorithms for Intelligent Systems (AIS) (2nd),	pp. 15–31, [ISBN: 978- 981-96- 3256-5], Google Search	Springer Nature, Singapore
Shivani Rana, Rakesh Kanji, Shruti Jain	A Computational Model for Imbalanced Data	MRCN 2024, Lecture Notes in Networks and Systems (5th),	pp. 715–725, [ISBN: 978- 981-96- 4225-0],	Springer, Singapore

	Challenges of Movie Review Using Adaptive Synthetic Sampling		Google Search	
Monika, Rakesh Kumar Bajaj, Aman Sharma	Fuzzy Similarity Measures for Clustering Validation	High-Performance Automation Methods for Computational Intelligent Systems (1st),	pp. 1–41, [ISBN: 9781003643609], Google Search	CRC Press, Boca Raton

6.5.8.3 Journal(s):

Name of Faculty	Title of Article	Name of Journal	Reference	Citation (Since publication)
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Geospatial Deep Learning Model for Early Landslide Prediction Using Multispectral Remote Sensing Data	<i>International Journal of Sensors, Wireless Communications and Control</i>	15(4), pp. 1–12 [SCOPUS, UGC Care]	DOI: https://doi.org/10.2174/0122103279381613250707181318 , Google Citation
Kshamta Chauhan, Ekta Gandotra	Hybrid Sampling Technique for Imbalanced Android Malware Family Classification	<i>SN Computer Science</i>	6, Article No. 209 [SCOPUS]	DOI: https://doi.org/10.1007/s42979-024-03647-x , Google Citation
Monika, Rakesh Kumar Bajaj, Aman Sharma	On clustering and TOPSIS decision-making technique with new trigonometric information measures under -	<i>Expert Systems with Applications</i>	289(128356), pp. 1–19 [SCOPUS, SCI, UGC]	DOI: https://doi.org/10.1016/j.eswa.2025.128356 ,

	spherical fuzzy hypersoft structures		Care, ABDC]	Google Citation
Shivani Rana, Rakesh Kanji, Shruti Jain	Sentiment Analysis of Movie and News: Reviews on Unbalanced Data Using Deep Learning with Abstract Feature Extraction	<i>Recent Patents on Engineering</i>	19(), [SCOPUS, UGC Care]	DOI: https://doi.org/10.2174/0118722121339588250115103810 , Google Citation
Shivani Rana, Rakesh Kanji, Shruti Jain	Sentiment Analysis of Movie and News: Reviews on Unbalanced Data Using Deep Learning with Abstract Feature Extraction	<i>Recent Patents on Engineering</i>	19(), [SCOPUS, UGC Care]	DOI: https://doi.org/10.2174/0118722121339588250115103810 , Google Citation
Prateek Thakral, Pardeep Kumar, Yugal Kumar	An improved transient search optimisation technique for effective data clustering	<i>International Journal of Grid and Utility Computing</i>	16(3), pp. 279–295 [SCOPUS, UGC Care]	DOI: 10.1504/IJGUC.2025.146283, Google Citation
Prateek Thakral, Yugal Kumar	A Simplex Method based Water Flow Optimizer Algorithm for Effective Data Clustering	<i>GMSARN International Journal</i>	19(4), pp. 621–636 [SCOPUS, UGC Care]	DOI: — , Google Citation

Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Earthquake prediction optimization using deep learning hybrid RNN-LSTM model for seismicity analysis	<i>Soil Dynamics and Earthquake Engineering</i>	195(10943 2), pp. 1–16 [SCOPUS, SCI]	DOI: https://doi.org/10.1016/j.soildyn.2025.109432 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Hybrid CatBoost and SVR Model for Earthquake Prediction Using the LANL Earthquake Dataset	<i>Informatica (Slovenia)</i>	49(2025), pp. 93–110 [SCOPUS, SCI, UGC Care]	DOI: — , Google Citation
Neha Thakur, Pardeep Kumar, Amit Kumar	Multilevel semantic segmentation and optimal feature selection based convolution neural network (Op-CNN) for breast cancer identification and classification using mammogram images	<i>Biomedical Signal Processing and Control</i>	103(2025) [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.bspc.2024.107374 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Geospatial Deep Learning Model for Early Landslide Prediction Using Multispectral Remote Sensing Data	<i>International Journal of Sensors, Wireless Communications and Control</i>	15(4), pp. 1–12 [SCOPUS, UGC Care]	DOI: 10.2174/0122103279381613250707181318, Google Citation

Kshamta Chauhan, Ekta Gandotra	Hybrid Sampling Technique for Imbalanced Android Malware Family Classification	<i>SN Computer Science</i>	6, Article No. 209 [SCOPUS]	DOI: https://doi.org/10.1007/s42979-024-03647-x , Google Citation
Monika, Rakesh Kumar Bajaj, Aman Sharma	On clustering and TOPSIS decision-making technique with new trigonometric information measures under - spherical fuzzy hypersoft structures	<i>Expert Systems with Applications</i>	289(12835 6), pp. 1–19 [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.eswa.2025.128356 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Geospatial Deep Learning Model for Early Landslide Prediction Using Multispectral Remote Sensing Data	<i>International Journal of Sensors, Wireless Communications and Control</i>	15(4), pp. 1–12 [SCOPUS, UGC Care]	DOI: 10.2174/0122103279381613250707181318, Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Geospatial Deep Learning Model for Early Landslide Prediction Using Multispectral Remote Sensing Data	<i>International Journal of Sensors, Wireless Communications and Control</i>	15(4), pp. 1–12 [SCOPUS, UGC Care]	DOI: 10.2174/0122103279381613250707181318, Google Citation
Kshamta Chauhan, Ekta Gandotra	Hybrid Sampling Technique for Imbalanced Android Malware	<i>SN Computer Science</i>	6, Article No. 209 [SCOPUS]	DOI: https://doi.org/10.1007/s42979-024-03647-x , Google Citation

	Family Classification			x, Google Citation
Monika, Rakesh Kumar Bajaj, Aman Sharma	On clustering and TOPSIS decision-making technique with new trigonometric information measures under - spherical fuzzy hypersoft structures	<i>Expert Systems with Applications</i>	289(128356), pp. 1–19 [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.eswa.2025.128356 , Google Citation
Shivani Rana, Rakesh Kanji, Shruti Jain	Sentiment Analysis of Movie and News: Reviews on Unbalanced Data Using Deep Learning with Abstract Feature Extraction	<i>Recent Patents on Engineering</i>	19(), [SCOPUS, UGC Care]	DOI: https://doi.org/10.2174/0118722121339588250115103810 , Google Citation
Prateek Thakral, Pardeep Kumar, Yugal Kumar	An improved transient search optimisation technique for effective data clustering	<i>International Journal of Grid and Utility Computing</i>	16(3), pp. 279–295 [SCOPUS, UGC Care]	DOI: 10.1504/IJGUC.2025.146283, Google Citation
Prateek Thakral, Yugal Kumar	A Simplex Method based Water Flow Optimizer Algorithm for Effective Data Clustering	<i>GMSARN International Journal</i>	19(4), pp. 621–636 [SCOPUS, UGC Care]	DOI: — , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Earthquake prediction optimization using deep	<i>Soil Dynamics and Earthquake Engineering</i>	195(109432), pp. 1–16	DOI: https://doi.org/10.1016/j.soildyn .

	learning hybrid RNN-LSTM model for seismicity analysis		[SCOPUS, SCI]	2025.109432 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Hybrid CatBoost and SVR Model for Earthquake Prediction Using the LANL Earthquake Dataset	<i>Informatica (Slovenia)</i>	49(2025), pp. 93–110 [SCOPUS, SCI, UGC Care]	DOI: — , Google Citation
Shivani Rana, Rakesh Kanji, Shruti Jain	Sentiment Analysis of Movie and News: Reviews on Unbalanced Data Using Deep Learning with Abstract Feature Extraction	<i>Recent Patents on Engineering</i>	19(), [SCOPUS, UGC Care]	DOI: https://doi.org/10.2174/0118722121339588250115103810 , Google Citation
Neha Thakur, Pardeep Kumar, Amit Kumar	Multilevel semantic segmentation and optimal feature selection based convolution neural network (Op-CNN) for breast cancer identification and classification using mammogram images	<i>Biomedical Signal Processing and Control</i>	103(2025) [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.bspc.2024.107374 , Google Citation

Nikita Rahaja, Ashok Kumar Gupta, Kushal Kanwar	The Nexus of Soil Stabilization and Biomedical Waste Recycling: Lime, RHA, And Microfine Slag Applications	<i>African Journal of Biomedical Research</i>	27(4S), pp. 7955– 7964 [SCOPUS, SCI]	DOI: https://doi. org/10.535 55/AJBR.v 27i4S.4474 , Google Citation
Payal Thakur, Vivek Kumar Sehgal	Synergizing edge computing and blockchain for cyber-physical systems	<i>Concurrency and Computation: Practice and Experience</i>	36(12), pp. 1–17 [SCOPUS, SCI, UGC Care]	DOI: https://doi. org/10.100 2/cpe.8066 , Google Citation
Surjeet Singh, Vivek Kumar Sehgal	A hybrid data fusion approach with twin CNN architecture for enhancing image source identification in IoT environment	<i>Computational Intelligence</i>	40(2), pp. 1–24 [SCOPUS, SCI, UGC Care]	DOI: https://doi. org/10.111 1/coin.126 31 , Google Citation
Navdeep Bhatnagar, Suchi Johari, Vivek Kumar Sehgal, Amita Nandal, Adi Alhudhaif, Kemal Polat, Surjeet Singh	Identification of theft in a power distribution network: A tree- based approach	<i>Applied Soft Computing</i>	167(Part C), pp. 1– 14 [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi. org/10.101 6/j.asoc.20 24.112449 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	A semantic segmentation framework with UNet-pyramid for landslide prediction using remote sensing data	<i>Scientific Reports</i>	14, Article 30071, pp. 1–23 [SCOPUS, SCI, UGC Care]	DOI: https://doi. org/10.103 8/s41598- 024-79266- 6 , Google Citation

Ashish Kumar Dogra, Vipal Kumar Sharma, Harsh Sohal	A survey of deep learning techniques for detecting and recognizing objects in complex environments	<i>Computer Science Review</i>	54(100686), pp. 1–25 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1016/j.cosrev.2024.100686 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	A Data-Driven and Hybrid Approach for Real-Time Threshold-Based Landslide Prediction in Hilly Regions using Sensor Networks	<i>Remote Sensing Letters</i>	15(12), pp. 1218–1228 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1080/2150704X.2024.2399331 , Google Citation
Prateek Thakral, Yugal Kumar	Multi-Search Strategy-based Improved Water Flow Optimizer Algorithm for Cluster Analysis	<i>Journal of Universal Computer Science</i>	30(11), pp. 1529–1568 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.3897/jucs.113087 , Google Citation
Navdeep Bhatnagar, Suchi Johari, Vivek Kumar Sehgal, Amita Nandal, Adi Alhudhaif, Kemal Polat, Surjeet Singh	Identification of theft in a power distribution network: A tree-based approach	<i>Applied Soft Computing</i>	167(Part C), pp. 1–14 [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.asoc.2024.112449 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	A semantic segmentation framework with UNet-pyramid for landslide prediction using	<i>Scientific Reports</i>	14, Article 30071, pp. 1–23 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1038/s41598-024-79266-

	remote sensing data			6, Google Citation
Ashish Kumar Dogra, Vipal Kumar Sharma, Harsh Sohal	A survey of deep learning techniques for detecting and recognizing objects in complex environments	<i>Computer Science Review</i>	54(100686), pp. 1–25 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1016/j.cosrev.2024.100686 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	A Data-Driven and Hybrid Approach for Real-Time Threshold-Based Landslide Prediction in Hilly Regions using Sensor Networks	<i>Remote Sensing Letters</i>	15(12), pp. 1218–1228 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1080/2150704X.2024.2399331 , Google Citation
Prateek Thakral, Yugal Kumar	Multi-Search Strategy-based Improved Water Flow Optimizer Algorithm for Cluster Analysis	<i>Journal of Universal Computer Science</i>	30(11), pp. 1529–1568 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.3897/jucs.113087 , Google Citation
Arush Kaushal, Ashok Kumar Gupta, Vivek Kumar Sehgal	Exploiting the synergy of SARIMA and XGBoost for spatiotemporal earthquake time series forecasting	<i>Earth Surface Processes and Landforms</i>	(), –, [SCOPUS, SCI]	DOI: https://doi.org/10.1002/esp.5992 , Google Citation
Amit Kumar, Bhupendra Kr Pathak, Kaustubh Mishra, Rajiv Kumar	Driver Drowsiness Detection System	<i>International Journal of Engineering and Manufacturing</i>	14(4), pp. 26–36 [UGC Care]	DOI: 10.5815/ijem.2024.04.03, Google Citation

Raghavendra Kumar, Pardeep Kumar, Yugal Kumar	Addressing stock market time series trends and volatility using optimised DE-LSTM model	<i>International Journal of Operational Research</i>	50(4), pp. 426–445 [SCOPUS, UGC Care]	DOI: 10.1504/IJOR.2024.140482, Google Citation
Shailendra Pratap Singh, Prabhishkek Singh, Manoj Diwakar, Pardeep Kumar	Improving quality of service for IoT in real life application: A novel adaptation based Hybrid Evolutionary Algorithm	<i>Internet of Things (Elsevier)</i>	27(101323), pp. 1–20 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1016/j.iot.2024.101323 , Google Citation
Digvijay Puri, Deepak Gupta	H-Mrk-Means: Enhanced Heuristic Mrk-Means for Linear Time Clustering of Big Data Using Hybrid Meta-Heuristic Algorithm	<i>Journal of Information & Knowledge Management</i>	Online(), 2450054– [SCOPUS]	DOI: https://doi.org/10.1142/S0219649224500540 , Google Citation
Digvijay Puri, Deepak Gupta	A novel linear time clustering using heuristically improved mrk-medoids based on modified squirrel search algorithm	<i>Australian Journal of Electrical and Electronics Engineering</i>	Online(), pp. 1–16 [SCOPUS]	DOI: https://doi.org/10.1080/1448837X.2024.2333670 , Google Citation
Monika, Rakesh Kumar Bajaj, Aman Sharma	Developing Neutrosophic Cubic Spherical Fuzzy Sets along with their Exponential Aggregation Operators for	<i>Neutrosophic Sets and Systems</i>	70(), pp. 197–216 [SCOPUS, UGC Care]	DOI: https://doi.org/10.5281/zenodo.13173139 , Google Citation

	Decision-Making Problems			
Prateek Thakral, Yugal Kumar	An Improved Water Flow Optimizer for Data Clustering	<i>SN Computer Science</i>	5(715), – [SCOPUS, UGC Care]	DOI: https://doi.org/10.1007/s42979-024-03048-0 , Google Citation
Amit Chauhan, Aman Sharma, Rajni Mohana	A Pre-Trained Model for Aspect-based Sentiment Analysis Task using Online Social Networking	<i>Procedia Computer Science</i>	233(), pp. 35–44 [SCOPUS, UGC Care]	DOI: https://doi.org/10.1016/j.procs.2024.03.193 , Google Citation
Aman Sharma, Divyam Goyal, Rajni Mohana	An ensemble learning-based framework for breast cancer prediction	<i>Decision Analytics Journal</i>	10(2024), – [SCOPUS, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.dajour.2023.100372 , Google Citation
Aman Sharma, Raghav Dalmia, Aarush Saxena, Rajni Mohana	A stacked deep learning approach for multiclass classification of plant diseases	<i>Plant and Soil</i>	Online(), pp. 1–18 [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1007/s11104-024-06719-2 , Google Citation
Piyush Sewal, Hari Singh	Algorithmic Proficiency in Spark Configuration Tuning: An Empirical Study using Execution Time Metrics across Varied Workloads	<i>Procedia Computer Science</i>	235(), pp. 2307–2317 [SCOPUS, UGC Care]	DOI: https://doi.org/10.1016/j.procs.2024.04.219 , Google Citation

Neha Thakur, Pardeep Kumar, Amit Kumar	Reinforcement learning (RL)-based semantic segmentation and attention based ABB-CNN for breast cancer classification	<i>Neural Computing and Applications</i>	Online(), pp. 1–27 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1007/s00521-024-09721-y , Google Citation
Piyush Sewal, Hari Singh	Performance optimization of Spark MLlib workloads using cost efficient RIG model on exponential projective sampling	<i>Cluster Computing</i>	27(), – [SCOPUS, SCI, UGC Care]	DOI: 10.1007/s10586-024-04478-4, Google Citation
Monika, Aman Sharma, Rakesh Kumar Bajaj	On identifying suitable hydrogen power plant location under T-spherical fuzzy hypersoft matrix structures	<i>International Journal of Hydrogen Energy</i>	68(), pp. 1057–1071 [SCOPUS, SCI]	DOI: https://doi.org/10.1016/i.ijhydene.2024.04.221 , Google Citation
Rajshree Srivastava, Pardeep Kumar	Deep-GAN: an improved model for thyroid nodule identification and classification	<i>Neural Computing and Applications</i>	36(), pp. 7685–7704 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1007/s00521-024-09492-6 , Google Citation
Rajshree Srivastava, Pardeep Kumar	Performance comparison of various ML classifiers using fusion of LBP, intensity and GLCM features for thyroid nodules classification	<i>International Journal of Grid and Utility Computing</i>	15(1), pp. 84–96 [SCOPUS, UGC Care]	DOI: https://doi.org/10.1504/IJGUC.2024.136708 , Google Citation

Jigyasa Goyal, Yugal Kumar, Pardeep Kumar, Arvinder Kaur	An enhanced human learning optimisation algorithm for effective data clustering	<i>International Journal of Grid and Utility Computing</i>	15(2), pp. 127–142 [SCOPUS, UGC Care]	DOI: https://doi.org/10.1504/IJGUC.2024.137905 , Google Citation
Pardeep Kumar, Raghavendra Kumar	A hybrid framework for time series trends: embedding social network's sentiments and optimized stacked LSTM using evolutionary algorithm	<i>Multimedia Tools and Applications</i>	83(9), pp. 34691–34714 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1007/s11042-023-16997-0 , Google Citation
Neha Thakur, Pardeep Kumar	A systematic review of ML and DL techniques for breast cancer identification via medical images	<i>Multimedia Tools and Applications</i>	83(9), pp. 35849–35942 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1007/s11042-023-16634-w , Google Citation
Piyush Sewal, Hari Singh	Performance Comparison of Apache Spark and Hadoop for ML-based iterative GBTR on HIGGS and Covid-19 datasets	<i>Scalable Computing: Practice and Experience</i>	25(3), pp. 1373–1386 [SCOPUS, UGC Care]	DOI: 10.12694/spe.v25i3.2687, Google Citation

Righa Tandon, Ajay Verma, Pradeep Kumar Gupta	D-BLAC: A dual blockchain-based decentralized architecture for authentication and communication in VANET	<i>Expert Systems with Applications</i>	237(B), pp. 1–10 [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.eswa.2023.121461 , Google Citation
Meghna Dhalaria, Ekta Gandotra	MalDetect: A classifier fusion approach for detection of Android malware	<i>Expert Systems with Applications</i>	235(), pp. 1–13 [SCOPUS, SCI, UGC Care]	DOI: https://doi.org/10.1016/j.eswa.2023.121155 , Google Citation
Righa Tandon, Ajay Verma, Pradeep Kumar Gupta	D-BLAC: A dual blockchain-based decentralized architecture for authentication and communication in VANET	<i>Expert Systems with Applications</i>	237(B), pp. 1–10 [SCOPUS, SCI, UGC Care, ABDC]	DOI: https://doi.org/10.1016/j.eswa.2023.121461 , Google Citation

6.5.8.4 Conference(s):

Name of Faculty	Title of Article	Conference Title/Name of Journal	Reference	Date
Pardeep Kumar	Editorial: Message by Conference General Chair – International Conference on Parallel, Distributed and Grid Computing (PDGC)	8th International Conference on Parallel, Distributed and Grid Computing (PDGC), JUIT, Waknaghat	pp. 8–8, [SCOPUS]	18–20 Dec 2024
Amit Kumar Shrivastava,	Investigating the impact and	7th International	pp. –, [SCOPUS]	06–08 Mar 2025

Vivek Kumar Sehgal, Ashok Kumar Gupta	emerging trends of Artificial Intelligence (AI) in the bioenergy sector	Conference on Signal Processing, Computing and Control (ISPCC), JUIT, Solan, Himachal Pradesh, India		
Hari Singh, Prateek Thakral, Kunal Rathor, Dinesh Chander Verma	A Machine Learning Based Diabetes Mellitus Classification on Weighted Class using Inverse Class Frequency Method	7th IEEE International Conference on Signal Processing, Computing and Control (ISPCC), Solan, India	pp. 788– 793, [SCOPUS]	06–08 Mar 2025
Rohini Singh, Ekta Gandotra, Shruti Jain	Detecting the Undetectable: Deep Learning Model for Identification of Fake Images	7th International Conference on Signal Processing, Computing and Control (ISPCC), JUIT, Waknaghat	pp. 980– 985, [SCOPUS]	06–08 Mar 2025
Prateek Thakral, Pardeep Kumar, Yugal Kumar	KM-RDA: A New Meta-Heuristic Approach for Data Clustering Problem	8th International Conference on Parallel, Distributed and Grid Computing (PDGC), Waknaghat, Solan, India	pp. 110– 114, [SCOPUS]	18–20 Dec 2024
Tajinder Kumar, Sachin Lalar, Ashish Chopra, Prateek Thakral	Pre-examination and Classification of Brain Tumor	2nd International Conference on Artificial	pp. 168– 183, [SCOPUS]	03–04 Oct 2024

	Dataset Using Machine Learning	Intelligence: Towards Sustainable Intelligence, Universidad de Alcalá (UAH), Madrid, Spain		
Neha Thakur, Pardeep Kumar	Image Quality Enhancement of Digital Mammograms Through Hybrid Filter and Contrast Enhancement	2nd International Conference on Advancements in Smart Computing and Information Security (ASCIS 2024), Marwadi University, Rajkot	pp. 194–212, [SCOPUS]	21 May 2024
Prateek Thakral, Pardeep Kumar, Yugal Kumar	KM-RDA: A New Meta-Heuristic Approach for Data Clustering Problem	8th International Conference on Parallel, Distributed and Grid Computing (PDGC), Wagnaghat, Solan, India	pp. 110–114, [SCOPUS]	18–20 Dec 2024
Tajinder Kumar, Sachin Lalar, Ashish Chopra, Prateek Thakral	Pre-examination and Classification of Brain Tumor Dataset Using Machine Learning	2nd International Conference on Artificial Intelligence: Towards Sustainable Intelligence, Universidad de Alcalá (UAH), Madrid, Spain	pp. 168–183, [SCOPUS]	03–04 Oct 2024

6.5.9 Top 2% Scientist:

Prof. Pardeep Kumar has been enlisted in top 2% Computer Scientists (Artificial Intelligence & Image Processing) list of 2024 prepared and released by Stanford University, USA and Elsevier. He has also been placed in the same list in 2021 and 2023. His complete profile is available at the following



URL: <https://www.juit.ac.in/faculty.php?id=84&dep=cse&page=0>

6.5.10 Industrial Visit to CS Soft Solutions

The industrial visit to CS Soft Solutions in Mohali, Chandigarh, was organized by the university as part of its initiative to provide students with real-world exposure to the IT industry. On 23 August 2024, the 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.

The formal proceedings began with an interactive session led by Komal, a key representative of CS Soft Solutions. Komal's discussion spanned a variety of crucial areas within the IT industry, including .NET, digital marketing, PHP, and mobile development. The first technical session of the day was conducted by Abhishek Sood, the Business Head at CS Soft Solutions. Abhishek's session was comprehensive, covering a broad range of topics that are pivotal to understanding the IT service industry as well as the product-based industry. The second session was led by Chirag Malhotra, the Senior Head of .NET at CS Soft Solutions. Chirag's session focused on the technical aspects of programming languages, particularly those related to the .NET framework. The final session of the day was conducted by Mr. Chhotu Sharma, the Managing Director of CS Soft Solutions and the founder of CS Group. With over 18 years of experience in the IT industry, Mr. Sharma is widely recognized as "The Guru of Microsoft Technologies." His session was both inspiring and insightful, as he shared his personal journey and the lessons he has learned over the years.

The tour concluded with a visit to the development section, quality assurance (QA) and testing department, where the students learned about the processes involved in ensuring that software products meet the required standards before they are released to clients. This section of the tour reinforced the importance of attention to detail and the role of QA in the software development lifecycle.

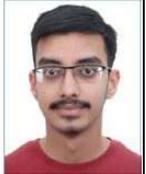


6.5.11 List of Ph.D. Completed Students (2024–25)

Sr. No	Enroll No.	Name	Supervisor	Co-Supervisor	DPMC Members	Date of Completion
1	196211	Piyush Sewal	Dr. Hari Singh		Dr. Amol Vasudeva, Dr. Ruchi Verma, Dr. Gopal Singh Bisht (BT/BI)	17/09/2024
2	206208	Amit Chauhan	Dr. Aman Sharma		Dr. Diksha Hooda, Dr. Anita, Dr. Shweta Pandit (ECE)	10/04/2025
3	196201	Payal Thakur	Dr. Vivek Kumar Sehgal		Dr. Ekta Gandotra, Dr. Amol Vasudeva, Dr. Harsh Sohal (ECE)	17/11/1024
4	216204	Arush Kaushal	Dr. Vivek Kumar Sehgal	Dr. Ashok Kumar Gupta (CIVIL)	Dr. Ekta Gandotra, Dr. Hari Singh, Dr. Tirath Raj Singh (BI/BT)	12/08/2025
5	186207	Ashok Kumar Tripathi	Dr. Pradeep Kumar Gupta	Dr. Hemraj Saini, Dr. Geetanjali	Dr. Vivek Sehgal, Dr. Rakesh Kanji, Dr. Sunil Khah (PHS)	16/07/2024

6	186217	Praveen Modi	Dr. Yugal		Dr. Hari Singh, Dr. Nancy, Dr. Shweta Pandit(EC E)	3/10/2024
7	186203	Sudhanshu	Dr. Pradeep Kumar Gupta		Dr. Ravindara Bhatt, Dr. Ekta, Dr. Rajeev Kumar(EC E)	12/06/2024
8	196205	Shefali	Dr. Pradeep Kumar Gupta	Dr. Rajendra Kumar Sharma	Dr. Ekta, Dr. Ruchi, Dr. Saurav(Civil)	24/05/2024
9	166206	Nidhi Sharma	Dr. Ravindara Bhatt		Dr. Pankaj Dhiman, Dr. Amit Kumar Jakhar, Dr. Rakesh Bajaj	28/08/2024

6.5.12 List of Qualified Students-GATE 2025- Department of CSE & IT

S.No.	Name	Enrollment Number	Branch	Year	GATE EXAM Discipline	GATE SCORE	AIR	PHOTO
1	Harshit Gupta	221030368	CSE	3rd	Computer Science and Information Technology (CS)	385	16522	
2	Nikhilesh Sharma	221030003	CSE	3rd	DataScience	354	8014	
3	Vasu Bhatia	221030150	CSE	3rd	Computer Science and Information Technology (CS)	413	13378	
4	Varnan Matela	221030114	CSE	3rd	Computer Science and Information Technology (CS)	493	7286	
5	Divyansh Goel	221030387	CSE	3rd	Computer Science and Information Technology (CS)	436	11184	
6	Pourush Pandey	221030172	CSE	3rd	Computer Science and Information Technology (CS)	387	16321	
7	Aditya Singh	221030043	CSE	3rd	Computer Science and Information Technology (CS)	357	20486	

8	Aditya Singh	221030043	CSE	3rd	DataScience	362	7448	
9	Abhinav Manda	221030455	CSE	3rd	Computer Science and Information Technology (CS)	357	20486	
10	Srishti Srivastava	221030346	CSE	3rd	Computer Science and Information Technology (CS)	387	16321	
11	Anshul Rohru	221030085	CSE	3rd	Computer Science and Information Technology (CS)	380	17287	
12	Anshul Rohru	221030085	CSE	3rd	DataScience	444	3457	
13	Anmol Thakur	221030287	CSE	3rd	Computer Science and Information Technology (CS)	373	18250	
14	Ankush Singh	211156	CSE	4th	DataScience	420	4358	

15	Naman Pratap Singh	211171	CSE	4th	Computer Science and Information Technology (CS)	390	15856	
16	Bhavya Sharma	221030431	CSE	3rd	Computer Science and Information Technology (CS)	377	17750	
17	Yash Tripathi	221030324	CSE	3rd	DataScience	350	8314	

7. DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

7.1 Vision and Mission

(a) **Vision.** To be a centre of excellence with highest scholarly and entrepreneurial benchmarks in Electronics and Communication Engineering in India and abroad

(b) **Mission**

M1: To provide a thorough grounding in electronics & communication engineering and computer engineering through investigative laboratory work and classroom lectures and field demonstrations.

M2: To promote the establishment of centres of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students.

M3: To discover and disseminate new findings from rigorous research that advances and improves the overall quality of life.

7.2 Faculty Details

S No	Faculty	Qualification	Specializations
1.	Rajiv Kumar	PhD	Fault-Tolerance, Network Reliability & Networked Control Systems
2.	Shruti Jain	PhD	Bio Medical Signal Processing, VLSI Design
3.	Harsh Sohal	PhD	VLSI Design, FPGA based Algorithm Implementation
4.	EmjeePuthooran	PhD	Medical Instrumentation and Signal Processing, Image Processing, Soft Computing Techniques
5.	Naveen Jaglan	PhD	Microwave Communication, Planar and Conformal Microstrip Antennas
6.	Shweta Pandit	PhD	Cognitive Radio, Wireless Communication
7.	Vikas Baghel	PhD	Radar Signal Processing, Adaptive Signal Processing, Soft and Evolutionary Computing
8.	Salman Raju	PhD	RF & Microwave Engineering, Digital Filter Design
9.	Nishant Jain	PhD	Biomedical Signal Processing, Image Processing
10.	Alok Kumar	PhD	Communication Systems, Cognitive Radio, Wireless Sensor Networks
11.	Pardeep Garg	PhD	Genomic Signal Processing
12.	Pragya Gupta	MTech	Communication Engineering, Image Processing
13.	MunishSood	MTech, MBA (HR)	Computer Vision, Deep Learning

7.3 Programs

7.3.1 Undergraduate Programs

The Department of Electronics and Communication Engineering focuses not only on the fundamentals of Communication Engineering but also the basic engineering and field implementation aspects of analog and digital electronics. The courses are designed deftly to make the fundamentals of students strong to be able to pursue career in both industry and research with poise. To ensure that the courses remain pertinent to industry and cater to the needs of students, the department offers the following courses in Under-Graduate Degree Program:

- B.Tech. in Electronics and Communication Engineering (ECE)
- B.Tech. in Electronics and Computer Science (ECS)
- Electronics Engineering (VLSI Design & Technology)

The candidates are selected for admission to BTech through JEE and 10+2 basis. Students are also exposed to core computer courses like Data Structures, Object Oriented Programming, Operating Systems and Computer Networks. Also a new program on Electronics Engineering (VLSI Design & Technology) is designed to provide students with strong foundations in Very Large-Scale Integration (VLSI) design, semiconductor devices, and advanced electronic systems. It focuses on industry-oriented skills for chip design, verification, and fabrication technologies, preparing graduates to excel in domains such as semiconductor design, EDA tools, and next-generation electronic technologies. Unique features of our department are designing electronic and communication systems using hardware/software tools such as MATLAB, LABVIEW, PSPICE, Xilinx Vivado, Model-Sim, Xilinx Zed Board, FPGA kit, Cadence Virtuoso, and Ansys HFSS etc. Other activities like workshops, seminars, hackathons, and expert talks are also organized by the department regularly. With an aim to nurture and develop the young minds, ECE Department have Robotic and Technovatorz Clubs. Along with that department facilitate the University student with the IoT lab, Drone Lab, Mitsubishi Factory Automation Lab, and Robotix Lab.

7.3.2 Post Graduate Programs

The department offers two MTech Programs in Electronics and Communication Engineering and Electronics and Communication Engineering with specialization in IoT. The candidates are selected based on the GATE score or an entrance test (PGET). The program covers a number of areas like next generation wireless systems, IoT architecture and protocols; Industrial automation; Robotics; Computer communication systems and networks; Signal and image processing; Machine learning for IoT; Microelectronics and VLSI Design; embedded system through suitable core/compulsory and elective subjects and extensive project and thesis work. The program also focuses on developing analytical skills to enable fluent use of mathematical techniques in engineering research.

7.3.3 PhD Program

The Department of ECE offers PhD program in Electronics & Communication Engineering. The Department promotes strong exposure in the area of Digital Signal and Image Processing, Microwave Engineering, VLSI Design, Speech Processing, Digital and Data Communication, Wireless and Mobile Communication Systems, Automation, Robotics and Control.

7.3.4 Laboratory Facilities

Laboratory support for the lecture courses is provided by the following well equipped laboratories to the department. All the laboratories are equipped with state-of-the-art instruments and software tools to enable the students to perform design-oriented experiments and test their designs. The infrastructure and lab facilities are upgraded from time to time and provide adequate opportunities for students and researchers to learn and innovate. Various softwares are available in the department like MATLAB, LABVIEW, PSPICE, XILINX VIVADO, ORCAD, HFSS, and Cadence VIRTUOUSO. For the enhancement of quality of Lab work, ECE department has also adopted Virtual Lab platform in most of the labs. This platform is also very helpful for conducting the experiments in an online mode. Along with that IoT lab, Drone Lab, Mitsubishi Factory Automation Lab, 3D printing Lab, and Robotix Lab are also available.

7.3.5 Placement

For the academic year 2024-25, there were 16 eligible participating students for placement and 14 students got placed in various companies. There was a total of 17 offers to these students. The students are placed in companies like Rockwell Automation, Infosys, Planet Spark, GreyB, Movidu Technology, Jungle Works, CORIZO etc.

7.3.6 New Courses introduced during the year

Following Department and open Electives are proposed

Department Electives	Open Electives
IoT Architecture and Protocols	Intelligent Transportation Systems
5G and Next Generation Networks	Digital System Design using FPGA
Real-World Information Processing	Mobile Communication
Intelligent Medical Image Analysis	Industrial Internet of Things
CMOS Digital VLSI Design	

7.3.7 PhD Completed

For the academic year 2024-25, five scholars of Ph.D. program have completed their PhD.

SI	Name	Title of Thesis
1	Diksha Thakur	Robustness and Performance Enhancement in Smart Antenna Systems through Novel Beamforming Techniques.
2	Niveditta Thakur	Neighborhood Processing based Spatial Filtering Approaches for Adaptive Image Enhancement and De-noising
3	Himani Bhardwaj	Design of VLSI Interconnect Circuits for Energy Performance Optimization
4	Shalini Sharma	Quality of service based service composition optimisation in smart agriculture
5	Vishakha Thakur	Design and development of compact MIMO antenna system for 5G smartphone applic

7.3.8 PhD Enrolled

For the academic year 2024-24, three new scholars enrolled in Ph.D. program.

SNo	Roll No.	Name
1	246001	Shilpa Kaushal
2	246002	Anmol Shalom Rath
3	246003	Tanu

7.3.9 Lab Facilities

Following new lab is proposed in the academic year 2024-25

- **Drobotics LAB**

The "Drobotics" Lab (Drone + Robotics + AI) has been proposed in the Department of Electronics and Communication Engineering with the objective of establishing a state-of-the-art facility in robotics and artificial intelligence. The lab will be equipped with advanced platforms such as humanoid robots, quadruped robots, high-tech drones, and advanced simulation environments. Once operational, it will serve as a hub for interdisciplinary research and hands-on learning in autonomous systems, computer vision, navigation, intelligent control, and real-world applications such as surveillance, inspection, healthcare, and disaster management. The proposed lab is expected to significantly enhance innovation, promote collaborative projects, and contribute to strengthening the university's academic and research ecosystem.

7.3.10 Lab Staff with qualification

S. No	Name	Qualification	Designation
1	Dr Ajay Kumar Singh	PhD	Sr. Lab Engineer
2	Dhirendra Kumar Singh	BTech	Sr. Lab Engineer
3	Jyotsna Bajaj	MTech	Sr. Lab Engineer
4	Kamlesh Kumar Srivastava	B Sc, BTech	Sr. Lab Engineer
5	Shambhoo Nath	ITI Diploma in ECE	Lab Technician
6	Ms. Rajni Devi	ITI Diploma in Compters	Jr. Assistant

7.3.11 Patent Filed and Granted:

S No	Title of Patent	Members	Application No
1	Dynamic gesture-based control system for interactive presentations with real-time adaptive zoom and annotation capabilities	Pranjal Thakur, Aditya Sood, Prateek Thakral, Shruti Jain	Published 202411054528

2	Next-Gen Extendable Dual Sun Visor System for Commercial Vehicles	Saurav Kumar, Pardeep Garg , Tripathi, Shubhrang Raj	Published 202411057362
3	Smart Mobile Cover System With AI-Driven Safety Features and Real-Time Protective Mechanisms	Saurav Kumar, Pardeep Garg , Pratap Singh	Published, 202411059294
4	A System and Method for Remote Door Lock Automation with Advanced Security Features	Manav Modi, Vridhi, Rajiv Kumar	Published, 202411073049
5	A System and a method to display and navigate images using Voice Commands	DevankKansal, Saksham Mittal, Vikas Baghel, and Shruti Jain	Published, 202511025087

7.3.12 Conferences, Seminars and Workshops / Faculty development program

7.3.12.1 Conferences

Conferences Organised

Dates	Subject	Venue	Participation Faculty Name	Remarks
March 06-08, 2025	7th International Conference on Signal Processing, Computing and Control (ISPCC 2k25)	Jaypee University of Information Technology, Wagnaghat, Solan	Dr. Rajiv Kumar, Dr. Harsh Sohal, Dr. Shweta Pandit	IEEE

Conferences Attended

Dates	Subject	Venue	Participating Faculty Name	Remarks
06-08 March, 2025	7th International Conference on Signal Processing, Computing and Control (ISPCC)	JUITWagnaghat, India	Dr. Rajiv Kumar, Dr. Shruti Jain, Dr. Harsh Sohal, Dr. EmjeePuthooran, Dr. Nishant Jain, Dr.Shweta Pandit, Dr. Vikas Baghel, Dr. Naveen Jaglan, Dr. Salman Raju Talluri, Dr. Alok Kumar, Dr. Pardeep Garg, Lt. Pragya Gupta, Mr. MunishSood	

October 15-18, 2024	India Mobile Congress (IMC)	IMC 2024, Delhi	Dr. Rajiv Kumar	
2-4 April 2025	International Conference on Computing for Sustainable Global Development	INDIACom, Delhi, India	Dr. Shruti Jain	
18-20 December 2024	Eighth International Conference on Parallel, Distributed and Grid Computing	JUITWaknaghat, India	Dr. Shruti Jain	
20-22 February, 2025	International Conference on Signal Processing and Communication (ICSC)	JIIT Noida India	Dr. Shruti Jain	
22-24 August 2024	5th India Council International Subsections Conference (INDISCON)	Chandigarh, India	Dr. Pardeep Garg, Dr. Naveen Jaglan	
9-11 May, 2025	7th International Conference on Energy, Power and Environment (ICEPE 2025)	NIT Meghalaya, Sohra	Dr. Shweta Pandit	

7.3.12.2 Workshops

Workshops Organized

Dates	Subject	Venue	Participation	Remarks
September 09-14, 2024	Artificial Intelligence for Smart Cities with Python	Women in Engineering (WIE) affinity group, IEEE Student Branch at JUIT	Prof. Dr. Shruti Jain	Online Workshop
September 24-25, 2024	Innovations in Federated Learning: Python Applications & Research Exploration	Hosted by WIE IEEE JUIT SB	Prof. Dr. Shruti Jain	
August 22-23, 2024	Smart Living: Harnessing Sensor Fusion for Home Automation	ECL6, Jaypee University of Information Technology, Solan, Himachal Pradesh, India.	Prof. Dr. Shruti Jain	IEEE JUIT SB in collaboration with IEEE R10 education activities and IEEE Delhi section

Aug 10-11, 2024.	International Leadership Summit	By IEEE WIE AG Delhi Section in JUIT	Prof. Dr. Shruti Jain	
August 05-06, 2024	Wings of Innovation	By the IEEE JUIT-SB in JUIT	Prof. Dr. Shruti Jain	
June 20-21, 2025	3D Printing Technology	In collaboration with TIEDC, IEEE JUIT SB and IIC, JUIT	Prof. Dr. Shruti Jain, Dr. Vikas Baghel	
September 02 - 06, 2024	MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications	ECL6, Jaypee University of Information Technology, Solan, Himachal Pradesh, India		Funded by Electronics & ICT Academy, Centre for Development of Advanced Computing (C-DAC), Mohali.
May 1, 2025	Connecting Students to the Semiconductor Industry	Jaypee University of Information Technology, Solan, Himachal Pradesh, India	Dr. Rajiv Kumar	

Workshops Attended

Dates	Subject	Venue	Faculty Name	Remarks
08th April 2025	ISRO-Academia Connect for Northern Region	NIT Kurukshetra	Dr. EmjeePuthooran, Dr. Vikas Baghel	
9-20 June, 2025	Quantum Circuits and Quantum Algorithms	JUITWaknaghat	Dr. Shweta Pandit	Organized by ACM India Summer School

7.3.12.3 Faculty Development Programs Organized

Dates	Name	Organized by	Faculty Name
Sept 2-7, 2024.	MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications	Department of Electronics and Communication Engineering, JUIT in collaboration with Electronics & ICT Academy, and Centre for Development of Advanced Computing (C-DAC), Mohali	Dr. Shruti Jain, Dr. Vikas Baghel, Dr. Nishant Jain
June 09 - 13, 2025	VLSI Design: Bridging Theory and Practice	Department of Electronics and Communication Engineering, JUIT in collaboration with Electronics & ICT Academy, Centre for Development of Advanced Computing (C-DAC), Mohali.	Dr. Shruti Jain, Dr. Vikas Baghel, Dr. Nishant Jain, Dr. Pardeep Garg

Faculty Development Programs Attended

Dates	Name	Organized by	No. of participants
22-30 April, 2025	NEP 2020 Orientation and Sensitization Programme under MM-TTP of UGC	Malviya Mission Teacher Training Centre, Himachal Pradesh University	Dr. Alok Kumar, Dr. Shweta Pandit
November 25-30, 2024	One-won AI and Digital Technologies for Sustainable Healthcare and Medical Technologies	NIRMA University, Ahmedabad	Dr. Pardeep garg

Sept 2-7, 2024.	MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications	Department of Electronics and Communication Engineering, JUIT in collaboration with Electronics & ICT Academy, and Centre for Development of Advanced Computing (C-DAC), Mohali	Dr. Rajiv Kumar, Dr. Shruti Jain, Dr. Harsh Sohal, Dr. EmjeePuthooran, Dr. Nishant Jain, Dr. Shweta Pandit, Dr. Vikas Baghel, Dr. Naveen Jaglan, Dr. Salman Raju Talluri, Dr. Alok Kumar, Dr. Pardeep Garg, Lt. Pragya Gupta, Mr. MunishSood
June 09 - 13, 2025	VLSI Design: Bridging Theory and Practice	Department of Electronics and Communication Engineering, JUIT in collaboration with Electronics & ICT Academy, Centre for Development of Advanced Computing (C-DAC), Mohali.	Dr. Shruti Jain, Dr. Vikas Baghel, Dr. Nishant Jain, Dr. Pardeep Garg
August 5-14, 2025	NEP 2020 Orientation and Sensitization Programme under MM-TTP of UGC	Malviya Mission Teacher Training Centre, University of Calicut	Dr. Shweta Pandit

7.3.13 **Publications**

7.3.13.1 **Journal Publications**

Name of Faculty	Title of Article	Name of Journal	Reference	Citation
<u>Rajiv Kumar</u>	Multi-objective service composition optimization problem in IoT for agriculture 4.0	Computing, Springer	DOI: https://doi.org/10.1007/s00607-024-01346-2 [SCOPUS, SCI, UGC Care, ABDC].	2

<u>Rajiv Kumar</u>	A Non-Linear Multi-Objective Service Composition Optimization for Smart Agriculture with Lagrange's Interpolation-based Evolutionary Algorithm.	Electrica	1(1), DOI: 10.5152/electrica.2024.24076 [SCOPUS ,UGC Care , ABDC].	6
<u>Rajiv Kumar</u>	Integrated LI-NSGA-II Approach for Solving the Non-linear Multi-objective Optimization Problem. Austrian	Journal of Statistics	53 (5), pp. 39-51, DOI: doi:10.17713/ajs.v53i5.1898 [SCOPUS , UGC Care , ABDC]	
<u>Rajiv Kumar</u>	Lagrange's Interpolation Embedded Multi-objective Genetic Algorithm to Solve Non-linear Multi-objective Optimization Problems.	Informatica (Slovenia),	48 (4), pp. 699-706, DOI: https://doi.org/10.31449/inf.v48i4.8494 [SCOPUS ,UGC Care , ABDC]	2
<u>Shruti Jain, Harsh Sohal</u>	Design of global RLC interconnect circuit with analytical delay model.	Recent Advances in Electrical & Electronic Engineering,	DOI: 10.2174/0123520965298473240314065311 [SCOPUS , SCI]	2
<u>Shruti Jain, Harsh Sohal</u>	Ensemble Diabetic Retinopathy Detection in 2-D Color Fundus Retina Scan.	Wireless Personal Communications	137 (3), pp. 1469-1490, DOI: https://doi.org/10.1007/s11277-024-11363-1 [SCOPUS , SCI , UGC Care]	3

<u>Shruti Jain, Harsh Sohal</u>	Global RC Interconnects with ADL Buffers for Low-Power Applications.	Micro and Nanosystems	16 (2), pp. 112-122, DOI: https://doi.org/10.2174/0118764029298466240508091306 [SCOPUS ,UGC Care]	2
<u>Shruti Jain, Harsh Sohal</u>	Efficiency evaluation of state cooperative banks employing data envelopment analysis and neural network technique	International Journal of Business Process Integration and Management	11 (3), pp. 179-185, DOI: https://doi.org/10.1504/IJBPIIM.2024.140141 [SCOPUS]	3
<u>Shruti Jain</u>	Framework for Image Denoising Employing Different Thresholding Techniques	International Journal of Sensors Wireless Communications and Control	4 (3), pp. 185-203, DOI: 10.2174/0122103279288431240315044900 [SCOPUS ,UGC Care]	
<u>Shruti Jain</u>	Indigenous Design and Implementation of Power-Efficient Multiplier using Field Programmable Gate Array	Procedia Computer Science,	258, pp. 3415-3425, DOI: https://doi.org/10.1016/j.procs.2025.04.598 [SCOPUS]	
<u>Shruti Jain</u>	FPGA Implementation of Power-efficient Multipliers for Digital Signal Processing Applications	Recent Advances in Electrical & Electronic Engineering,	18 (7), pp. 1036-1052, DOI: 10.2174/0123520965220371240315054004 [SCOPUS , SCI]	

<u>Shruti Jain</u>	Efficient Approximate Computing Circuits for Error-Tolerant Applications: Design and Validation of Multipliers with Novel Speculative Adders and Approximate Compressors	Journal of Circuits, Systems and Computers,	DOI: https://doi.org/10.1142/S0218126625502615 [SCOPUS , SCI , UGC Care]	
<u>Shruti Jain</u>	Sentiment Analysis of Movie and News: Reviews on Unbalanced Data Using Deep Learning with Abstract Feature Extraction	Recent Patents on Engineering,	19, pp. -, DOI: https://doi.org/10.2174/0118722121339588250115103810 [SCOPUS ,UGC Care	
<u>Shruti Jain</u>	Computational Model to Predict Potential Therapeutic Targets Employing Generative Adversarial Networks for Analysis of Proteins Involved in Mycobacterium fortuitum Biofilm Formation.	Current Medicinal Chemistry	39817380, DOI: 10.2174/0109298673345515241122024326 [SCOPUS , SCI , UGC Care]	
<u>Shruti Jain</u>	A framework for two-class Classification of Pulmonary Tuberculosis using Artificial Intelligence.	Current Medical Imaging	PMID: 40248942 (), DOI: 10.2174/0115734056343819250307040956 [SCOPUS , SCI , UGC Care]	

<u>Shruti Jain</u>	Efficient Approximate Computing Circuits for Error-Tolerant Applications: Design and Validation of Multipliers with Novel Speculative Adders and Approximate Compressors	Journal of Circuits, Systems and Computers, Online	DOI: https://doi.org/10.1142/S0218126625502615 [SCOPUS , SCI]	
<u>Shruti Jain</u>	Internet of Healthcare Things based Detection of EEG Epileptic Seizures: A smart system.	Current Drug Therapy	20 (7), pp. 590-603, DOI: 10.2174/0115748855307754240711065309 [SCOPUS , SCI , UGC Care]	
<u>Shruti Jain</u>	Detection of Brain Tumor Employing Residual Network-based Optimized Deep Learning.	Current Computer - Aided Drug Design	21 (1), pp. 15-27, DOI: https://doi.org/10.2174/1573409920666230816090626 [SCOPUS , SCI , UGC Care]	3
<u>Shruti Jain</u>	Role of Artificial Intelligence in VLSI Design: A Review	Recent Advances in Computer Science and Communications,	18 (1), DOI: https://doi.org/10.2174/0126662558289880240418073738 [SCOPUS ,UGC Care]	3
<u>Shruti Jain</u>	Design and Analysis of Optimized Approximate Multiplier Using Novel Higher-Order Compressor. Journal of Circuits	Systems and Computers, Online	pp. 2550066-, DOI: https://doi.org/10.1142/S0218126625500665 [SCOPUS , SCI , UGC Care]	1

Harsh Sohal	A survey of deep learning techniques for detecting and recognizing objects in complex environments	Computer Science Review	54 (100686), pp. 1-25, DOI: https://doi.org/10.1016/j.cosrev.2024.100686 [SCOPUS , SCI , UGC Care]	6
EmjeePuthooran, Nishant Jain, MunishSood	Deep learning-based ovarian cyst classification and abnormality detection using convolutional neural networks.	Neural Computing and Applications, 2025 - Springer	DOI: https://doi.org/10.1007/s00521-024-10810-1 [SCOPUS ,UGC Care]	1
EmjeePuthooran	Edge AI Enabled IoT Framework for Secure Smart Home Infrastructure.	Procedia Computer Science,	235 (2024), pp. 3369-3378, DOI: https://doi.org/10.1016/j.procs.2024.04.317 [SCOPUS]	
EmjeePuthooran	An In-Depth Examination Of Diverse Image Segmentation Techniques For Fundus Imaging-Based Glaucoma Identification.	Biomedical Engineering: Applications, Basis and Communications, online (online),	DOI: https://doi.org/10.4015/S1016237225300019 [SCOPUS].	
Shweta Pandit	Bli-Fi: Li-Fi-Based Home Navigation for Blind.	International Journal of Sensors, Wireless Communications and Control,	14 (4), pp. -, DOI: 10.2174/0122103279302588240821042940 [SCOPUS ,UGC Care]. Google Citation	1
Shweta Pandit	Spectrum Monitoring in Cognitive Radio Networks for Reduced Data Loss, Resource Wastage, and Interference.	International journal of Communication Systems	e6066, pp. -, DOI: https://doi.org/10.1002/dac.6066 [SCOPUS, UGC Care].	2

Shweta Pandit, Salman Raju Talluri	Throughput prediction of fifth-generation cellular system using hybrid feature selection and enhanced sequential decision tree machine learning algorithm.	Wireless Networks	31, pp. 3025-3042, DOI: https://doi.org/10.1007/s11276-025-03917-3 [SCOPUS , SCI , UGC Care , ABDC]	
Alok Kumar	Performance Analysis of a Spatial Modulation Aided Cooperative NOMA System.	IEEE Communications Letters	28 (10), pp. 2273-2277, DOI: 10.1109/LCOMM.2024.3452127 [SCOPUS , SCI , UGC Care].	2
Vikas Baghel	Simultaneous Production of Biogas and Electricity from Anaerobic Digestion of Pine Needles: Sustainable Energy and Waste Management.	BioTech	13 (3), pp. 35-35, DOI: https://doi.org/10.3390/biotech13030035 [SCOPUS ,UGC Care]	1
Vikas Baghel	Fuzzy C-Means Clustering based Selective Edge Enhancement Scheme for Improved Road Crack Detection.	Engineering Applications of Artificial Intelligence,	136 (PART A), pp. - , DOI: https://doi.org/10.1016/j.engappai.2024.108955 [SCOPUS , SCI , UGC Care , ABDC].	1
Vikas Baghel	Multi-sectoral impacts of the 2023 disasters in Himachal Pradesh and mitigation plans.	Infrastructure Asset Management	DOI: https://doi.org/10.1680/jinam.24.00025 [SCOPUS , SCI , UGC Care]	2

Vikas Baghel	Anticancer Peptides: Unveiling the Next Frontier in Cancer Treatment.	International Journal of Peptide Research and Therapeutics,	31 (64), pp. 1-20, DOI: https://doi.org/10.1007/s10989-025-10724-z [SCOPUS , SCI , UGC Care]	1
Vikas Baghel	A Novel Fuzzy C-Means Clustering Framework for Accurate Road Crack Detection: Incorporating Pixel Augmentation and Intensity Difference Features.	Informatica (Slovenia),	49 (15), pp. 27-40, DOI: https://doi.org/10.31449/inf.v49i15.7082 [SCOPUS ,UGC Care , ABDC]	0
Naveen Jaglan	Multi-Band Notched Circular Polarized MIMO Antenna for Ultra-Wideband Applications	IEEE Transactions on Electromagnetic Compatibility	125 (2024), 87-95, DOI: 10.2528/PIERM24012804 [SCOPUS]	2

7.3.13.2 Books/Book Chapters Published

Name of Faculty	Title of Book Chapter	Name of Book	Reference	Remark
<u>Shruti Jain</u>		Mobile Radio Communications and 5G Networks	ISBN : 978-981-96-4226-7	Springer
<u>Shruti Jain</u>		Hybrid Soft Computing Techniques for Machine Learning and Optimization	ISBN : 9798369368640	IGI Global
<u>Shruti Jain</u>		Advancements in Generative Artificial Intelligence	ISBN : 978-981-96-6094-0	IGI Global

Name of Faculty	Title of Book Chapter	Name of Book	Reference	Remark
<u>Shruti Jain</u>	Harnessing IoT and Machine Learning for Transformative Healthcare Solutions	Hybrid Soft Computing Techniques for Machine Learning and Optimization	ISBN : 9798369368640	pp. 229-248 :IGI Global
<u>Pardeep Garg</u>	Open-Source Gesture-Powered Augmented Reality-based Remote Assistance Tool for Industrial Application: Challenges and Improvisation	Emergent Converging Technologies and Biomedical Systems vol 1116, pp. 337-347	ISBN : 978-981-99-8645-3	Springer Nature
<u>Rajiv Kumar</u> <u>Harsh Sohal</u> <u>Shweta Panit</u>	Proc. of IEEE International Conference on Signal Processing, Computing and Control (ISPCC)	7th International Conference on Signal Processing, Computing and Control (ISPCC)	[7th: JUITWaknaghat, India : 06-08 March, 2025], pp.1-1147. [SCOPUS]	06-08 March, 2025

7.3.13.3 Conference Publications

Name of Faculty	Title of Article presented	Name of conference	Reference	Dates
Shweta Pandit,Rajiv Kumar	Marginal Moment Generating function-based detection performance analysis over Generalized-K distributed fading channel	7th International Conference on Signal Processing, Computing and Control (ISPCC)	[7th: JUITWaknaghat, India : 06-08 March, 2025], pp.310-313. [SCOPUS]	06-08 March, 2025
Rajiv Kumar	Unmanned Aerial Vehicle (UAV) Types, Sensors, Control & Applications: A Review	<i>IEEE International conference ICSC 2025, JIIT Noida</i>	<u>10.1109/ICSC6455.2025.10967755</u>	20-22 February, 2025
Rajiv Kumar	UAV PID Controller Optimization for Improved Flight Stability: Simulation and Analysis	<i>IEEE International conference ISPCC 2025</i>	<u>10.1109/ISPCC668.2025.11039330</u>	06-08 March 2025

Shruti Jain	Intelligent Computational Framework for Adaptive Temperature and Humidity Control in Air Conditioning Systems	International Conference on Computing for Sustainable Global Development (INDIACom)	Delhi, India [12th : Delhi : 2-4 April 2025], pp.1-6	02-04 April 2025
Shruti Jain	Detecting the Undetectable: Deep Learning Model for Identification of Fake Images.	7th International Conference on Signal Processing, Computing and Control (ISPCC)	7th: Juit, Wagnaghat : March 6-8, 2025, pp.980-985. [SCOPUS]	06-08 March, 2025
Shruti Jain	FPGA Implementation of Image Pre-Processing Module for Glaucoma Detection.	7th International Conference on Signal Processing, Computing and Control (ISPCC 2k25)	[66872: Solan: March 6-8, 2025], pp.818-823. [SCOPUS]	06-08 March, 2025
Shruti Jain	Internet of Medical Things based EEG Epileptic Seizure Detection.	Eighth International Conference on Parallel, Distributed and Grid Computing	[Juit, Wagnaghat : 18-20 December 2024], pp.155-159. [SCOPUS]	18-20 December 2024
Shruti Jain	Neural Network-Based Evaluation of Energy Consumption Across Diverse Zones. Proceedings of the (ICSC)	International Conference on Signal Processing and Communication	[10th: JIIT, Noida: 20-22 February, 2025], pp.481-486. [SCOPUS]	20-22 February, 2025

MunishSood, EmjeePuthoran, Nishant Jain	Ovarian Cyst Classification and Abnormality Detection Using Convolutional Neural Networks	7th International Conference on Signal Processing, Computing and Control (ISPCC)	[7th: JUITWakn aghat, India: 6-8 March, 2025], pp.-. [SCOPUS]	06-08 March, 2025
Harsh Sohal, Shruti Jain	FPGA Implementation of Image Pre- Processing Module for Glaucoma Detection	7th International Conference on Signal Processing, Computing and Control (ISPCC 2k25)	[66872: Solan: March 6- 8, 2025], pp.818- 823. [SCOPUS]	06-08 March, 2025
Pardeep Garg,	An Improved Approach for the Prediction of Parkinson Disease	IEEE 5th India Council International Subsections Conference (INDISCON)	[5th: Chandigar h, India : 22-24 August 2024], pp.1-6. [SCOPUS]	22-24 August
Naveen Jaglan	Ultra-Wideband Pattern Reconfigurable Antenna for Base station Applications	India Council International Subsections Conference (INDISCON)	[5th: Chandigar h, India: 22-24 August 2024], pp.1-6. [SCOPUS].	22-24 August
Naveen Jaglan	Next-Generation Sub-6 GHz Antenna Solutions: A Review on Scalability and Performance Optimization of Radiating Elements	7th International Conference on Signal Processing, Computing and Control (ISPCC)	7th: JUITWakn aghat, India : 06- 08 March, 2025], pp.935- 939. [SCOPUS	06-08 March, 2025

Naveen Jaglan	Pattern and Polarization Reconfiguration MIMO Indoor base station antenna for 5G applications	7th International Conference on Signal Processing, Computing and Control (ISPC)	7th: JUITWakn aghat, India : 06-08 March, 2025], pp.1086-1091. [SCOPUS	06-08 March, 2025
Naveen Jaglan	MIMO Antenna Design for 5G Smartphone Application	7th International Conference on Signal Processing, Computing and Control (ISPC)	7th: JUITWakn aghat, India : 06-08 March, 2025], pp.1116-1121. [SCOPUS	06-08 March, 2025

7.3.14 Guest Speakers / Lectures / Visits

7.3.14.1 Guest Speakers

Name of Guest Speaker	Designation of speaker	Topic of Lecture	Date
Dr. Tanu Jain	Ex IAS OFFICER, FOUNDER TATHASTU-ICS, TEACHER)	Insight into personal and Professional Growth	December 6, 2024
Dr. Gaurav Gupta	Scientist F, Ministry of Electronics & IT, Govt. of India	Awareness session on Technological frauds and Cybercrimes	December 6, 2024
GATE Smasher Mr. Varun Singla	Educator, mentor, and entrepreneur	Techniques to crack GATE exam	April 18, 2025
Dr Prateek Kumar	Prof., School of Electrical Engineering and Computer Science, Washington State University, WA, US	Fostering Visionary Academic Leadership for Institutional Excellence	June 2, 2025
Rajat K Singh	CEO of VLSI for All Pvt. Ltd	Connecting Students to the Semiconductor Industry	May 1, 2025

Dr. Taranjit Kaur	Scientific officer, IIT Jodhpur	Epilepsy Diagnosis via Neuroimaging Markers and AI	Sept. 02-06, 2025 (Online Talk in FDP “MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications”)
Prof. Tapan K. Gandh	Professor, IIT Delhi	Powerful tools used for research and analysis of Images	Sept. 02-06, 2025 (Online Talk in FDP “MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications”)
Dr. Meenakshi Sood	Associate Prof. ,NITTTR Chandigarh	Faculty preparedness for implementation of NEP2020	Sept. 02-06, 2025 (Online Talk in FDP “MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications”)
Dr. Akshay Pandey	Assistant Prof. ,IIIT Jabalpur	Multi crop identification and classification using UAV dataset	Sept. 02-06, 2025 (Online Talk in FDP “MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications”)
Dr. Chandresh Kumar Maurya,	Assistant Prof., IIT Indore	Pre-training and fine-tuning with CNN features	Sept. 02-06, 2025 (Online Talk in FDP “MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications”)
Dr. Anita Singh	Scientist ‘F’ ,IRDE, DRDO, Ministry of Defence	Convolutional Neural Networks (CNNs) for Computer Vision	Sept. 02-06, 2025 (Online Talk in FDP “MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications”)

Dr. Satyasai Jagannath Nanda	Associate Prof., MNIT Jaipur	Image Segmentation Techniques	Sept. 02-06, 2025 (Online Talk in FDP "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications")
Dr. Anjali Gautam	Assistant Prof., IIIT Allahabad	Image Segmentation Techniques	Sept. 02-06, 2025 (Online Talk in FDP "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications")
Prof. R.S. Anand	Professor, IIT Roorkee	Extracting features from digital Images	Sept. 02-06, 2025 (Online Talk in FDP "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications")
Dr. Jitendra Virmani	Senior Technical Officer, Indo-Swiss Training Centre (ISTC), CSIR-CSIO	Image Data Augmentation	Sept. 02-06, 2025 (Online Talk in FDP "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications")
Prof. Rajendra Singh	Professor at the Department of Physics, IITDelh	"Semiconductor Manufacturing in India: Role of Academia	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")
Dr. Balwinder Singh	Joint Director & Head, CDAC-Mohali	Chip Design: From Sand to System on Design	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")
Prof. Sudeb Dasgupta	Professor, IIT Roorkee	"Cryo-CMOS: Bridging Classical Readout and Quantum Hardware at 4.2K Temperature	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")

Dr. Manoj Saxena	Professor, DeenDayal Upadhyaya College, University of Delhi	100 Years of FET: Development and Innovations	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")
Mr. Harpreet S. Jatana	Former Group Head, SCL Mohali and ISRO	Challenges in Development of Space Grade VLSI Products in DSM Regime	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")
Ms. SoniyaBadgujjar	Project Engineer at C-DAC Mohali	Basics of Digital Logic Design and Introduction to HDL	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")
Mr. Prathamesh	Project Engineer at CDAC Mohali	Introduction to FPGA Architecture and Development Flow	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")
Mr. Prathamesh	Project Engineer at CDAC Mohali	FPGA Implementation, Debugging, and Minor Projects	June 09-13, 2025 (Talk in FDP "VLSI Design: Bridging theory and practice")
Prof. Oscar Deniz	Professor, Universidad de Castilla-La Mancha , Spain	Computer vision for Weapon and Violence Detection	March 6, 2025 (Keynote in conference ISPC 2k25 held at JUIT)
Mr. Atul Purohit	Head of Technology (Europe Customer CTO), United Kingdom.	Network Monetization: Exploring the Communication APIs Holy Grail	March 6, 2025 (Keynote in conference ISPC 2k25 held at JUIT)
Dr. H.S. Jatana	Adjunct Faculty at MNIT Jaipur, Biomedical Instruments and Devices Hub, PGIMER, Chandigarh	Opportunities and Challenges in Analog VLSI Design: An Indian Scenario	March 06, 2025 (Keynote in conference ISPC 2k25 held at JUIT)
Dr. S.K. Varshney	Scientist-G & Head, International Cooperation Division (DST), India	Writing a Funding Research Proposal to various Funding Agencies	March 07, 2025 (Keynote in conference ISPC 2k25 held at JUIT)
Dr. I. Balakrishna	Joint Director / Scientist, Ministry of Electronics and Information Technology (MeitY), Govt of India	Intelligent and innovative Technologies in Computing, Electrical and Electronics	March 07, 2025 (Keynote in conference ISPC 2k25 held at JUIT)

Sanjay K Singh	Software Engineering Principal B T Group, Ipswich, UK	Industrial IoT: Challenges and Opportunities	March 08, 2025 (Keynote in conference ISPC 2k25 held at JUIT)
Dr. Anita Singh	Scientist-F, Joint Director, Group Head (Artificial Intelligence) Defence Research Organization, Ministry Of Defence, INDIA	AI Applications for Defence Industry	March 08, 2025 (Keynote in conference ISPC 2k25 held at JUIT)

7.3.14.2 Lectures Delivered by Faculty

Name of Faculty	Designation of Faculty	Topic of Lecture	Date	Venue
Dr. Nishant Jain	Assistant Professor	Data Visualization and Statistical Modeling	June 25, 2025	C-DAC Mohali
Dr. Nishant Jain	Assistant Professor	Supervised Learning: Regression & Classification Techniques	June 25, 2025	C-DAC Mohali
Dr. Nishant Jain	Assistant Professor	Medical Imaging for Early Tumour Detection	February 25, 2025	Electronics and ICT Academy, NIT Patna and NIT Jamshedpur
Dr. Nishant Jain	Assistant Professor	AI in Biomedical Applications	Jan 17, 2025	C-DAC Mohali
Dr. Nishant Jain	Assistant Professor	Designing CNN Models using Python	Jan 21, 2025	C-DAC Mohali
Dr. Nishant Jain	Assistant Professor	Machine Learning using Python	December 4, 2024	Jaypee Institute of Information Technology, Noida
Dr. Shruti Jain	Professor, Assoc. Dean	Innovation, Design, and Entrepreneurship	July 24, 2024	JUIT, Wagnaghat
Dr. Shruti Jain	Professor, Assoc. Dean	Bioengineering Breakthroughs: Pioneering Advances in Health and Environment	Sept 2-7, 2024	JUIT, Wagnaghat
Dr. Shruti Jain	Professor, Assoc. Dean	Emerging Technology Applications	Oct 14, 2024	JUIT, Wagnaghat

Dr. Shruti Jain	Professor, Assoc. Dean	Recent Advancements in VLSI Design and its Applications	Mar 15, 2024	JIIT, Noida
Dr. Shruti Jain	Professor, Assoc. Dean	Building Intelligent IoT Systems: The Power of AI and Data Science	December 17, 2024	Chandigarh Group of Colleges, Jhanjeri
Dr. Shruti Jain	Professor, Assoc. Dean	Recent Trends and Challenges in AI-Based Image Processing Research	Feb 10, 2025	EICT Academy, Center of development of Advancing Computing, Mohali
Dr. Shruti Jain	Professor, Assoc. Dean	The Role of AI in Biomedical Applications	Feb 19, 2025	EICT Academy, Center of development of Advancing Computing, Mohali
Dr. Shruti Jain	Professor, Assoc. Dean	AI in Bio- Medicine: Revolutionizing Healthcare and Diagnostics	Feb 21, 2025	EICT Academy, Center of development of Advancing Computing, Mohali
Dr. Shruti Jain	Professor, Assoc. Dean	Best Practice for SB's	February 20, 2025	IEEE Delhi section
Dr. Shruti Jain	Professor, Assoc. Dean	High Speed Networking and Information Security	April 02, 2025	Bharati Vidyapeeth, New Delhi
Dr. Vikas Baghel, Dr. Pardeep Garg	Assistant Professor	"Practical Sequential Circuit Design Exercises	June 11, 2025	JUIT, Wagnaghat

7.3.15 Visits

Date	Event	Visit Location	Participants
Nov. 25, 2024	Industrial Visit	Dabar India Ltd., Baddi, Soan (H.P.)	26 students of UG, PG and PG programs of ECE Department of JUIT
May 14, 2025	Industrial Visit	SCL Mohali	35 students of UG, PG and PG programs of ECE Department of JUIT

7.3.16 **Composition of Various Bodies****Board of Studies (BOS)**

S No	Name	Designation	Institution
1	Prof Rajiv Kumar	HOD, Dept of ECE(Chairperson)	JUIT
2	Prof Shruti Jain	Professor & Associate Dean, Dept. of ECE	JUIT
3	Dr. Naveen Jaglan	Associate Professor, Dept. of ECE	JUIT
4	Dr. Harsh Sohal	Associate Professor, Dept. of ECE	JUIT
5	Dr. Emjee Puthooran	Associate Professor, Dept. of ECE	JUIT
6	Dr. Salman Raju Talluri	Asst. Professor (SG), Dept. of ECE	JUIT
7	Dr. R S Raja Durai	Professor, Dept. of Mathematics	JUIT
8	Prof (Dr) Debashish Ghosh	Professor, Dept. of ECE	IIT Roorkee
9	Dr Balwinder Singh	Joint Director & Head, CDAC Mohali	Centre for Development of Advanced Computing- A Scientific Society of the Ministry of Communication & IT, A-34, Indl Area, Phase VIII, Mohali.
10	Mr. Sanjay Kumar Singh	Principal Software Engineer - Domain Architecture, governance, and Strategy	British Telecommunications Ltd, Ipswich, United Kingdom
11	Prof. Vineet Sharma	Professor, Dept. of PMS	JUIT
12	Dr. Vikas Baghel (Co-opted member)	Asst Professor, Dept of ECE	JUIT
13	Dr. Shweta Pandit (BoS-Coordinator, Co-opted member)	Associate Professor, Dept of ECE	JUIT

8. DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

8.1 Vision and Mission

(a) **Vision.** To be the change-facilitators by imparting professional and behavioral competencies to complement the existing and emerging educational programs of the University and match the Industry Requirements.

(b) **Mission**

M1: To facilitate students and professionals to become Innovative, Competitive and Enterprising in their chosen fields.

M2: To create responsible global citizens, who are able to express and assess opinions, take independent decisions and value the power of imagination and continuous learning.

M3: To bridge the gap between academia and industry by incorporating contemporary concepts and practices in our courses.

8.2 Faculty Details

<u>Faculty Name</u>	<u>Qualification</u>	<u>Specialization</u>
Prof Anupriya Kaur	PhD	Marketing
Prof Amit Srivastava	PhD	Finance and International Business
Dr Tanu Sharma	PhD	HRM
Ms Triambica Gautam	MBA	Banking and Finance
Dr Neena Jindal	PhD	Good Governance, Human rights
Dr Deler Singh	PhD	Professional Communication Skills and Literature in English
Dr RanjithKallyani	PhD	Science and Technology Studies and Environmental Sociology
Dr Atul Kumar Singh	PhD	Professional Communication, Linguistics, Sociology of Language
Dr Bilal Khan	PhD	Monetary Economics, Macroeconomics

8.3 New Courses introduced during the year

S No	Title of New Course	Course Code
1	Introduction to Science of Language	23B1WHS831
2	Engineering Economics	23B1WHS631
3	History and Philosophy of Science and Technology	23B1WHS632
4	Science Technology and Society	24B1WHS731
5	Knowledge Systems in Ancient India	24B1WHS732
6	Soft Skills for Professionals	24B11HS615
7	Indian Social Structure	24B1WHS631
8	Life Skills and interpersonal Dynamics	23B11HS311
9	Statistics for Business Decisions	23BB1HS311
10	Political Process in India	23BB1HS314
11	Management Accounting	23BB1HS313
12	Principles of Marketing	24BB1HS311
13	Statistical Software	23BB7HS371
14	Entrepreneurship Development	23BBWHS331
15	Business Research	24BB1HS411
16	Human Resource Management	24BB1HS412
17	Financial Management	24BB1HS413
18	Production and Operations Management	24BBWHS431
19	IT Tools for Business	24BB7HS471
20	Oral Written Communication	24BB1HS414

8.4 PhD Program

The Department of Humanities and Social Sciences strives to nurture young minds to become well-rounded engineers, responsible global citizens and leaders. The Department acts as change-facilitator by imparting professional and behavioral competencies to complement the existing and emerging educational programs of the University. We have multifaceted faculty in the department who offer a variety of contemporary courses to students at undergraduate and post graduate level. Additionally, the faculty has been vigorous in conducting FDP programs, community development programs and workshops based on research methods. Faculty in the department has been actively pursuing and guiding research in the areas of marketing management, finance and econometrics, business communication and human resource management with research publications in journals of high repute

- **Research Specializations:** Consumer Behavior, Service Marketing, Internet Marketing, Corporate Social responsibility, Emotional intelligence, Good Governance, Human rights, English Language and Literature, Conflict Management, Corporate Finance, Financial Econometrics, Personal Finance, International Business, Behavioral Finance, Economic Development and Financial & Management Accounting.

8.5 Lab Facilities

8.5.1 Equipments

- (i) Dell Computer-D19M-Intel Core i5-7400-7thGen@3.00Ghz, RAM-8Gb, HDD-1TB Windows 10 Pro (25)
- (ii) Headphones (30)

8.5.2 Operational Softwares

- (i) Snet 8.0 Client, Business Writing, Tense Buster (Port 1-30)
- (ii) Snet 8.0 Master, Business Writing, Tense Buster (1)
- (iii) IBM SPSS Statistics 24 (Port 2,3,4)

8.5.3 Lab Staff with Qualification

Name	Designation	Qualification
Mr. Mahender Thakur	Junior lab Assistant	MCA

8.5.4 Conferences / Seminar / Workshops Organized – NIL

8.5.4.1 Conferences

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
6-8 December 2024.	5th IPPN Conference on Policy Processes in the Global South	IIT Bombay	Ranjith Kallyani	Convened a panel and presented a paper
24-25 January 2025	10 th International Conference on Global Business Environment	IIM Bhubaneswar	Neena Jindal	Presented a paper
24-25 January 2025	10 th International Conference on Global Business Environment	IIM Bhubaneswar	Tanu Sharma	Presented a paper
9-10 January, 2025	5 th International Conference on Contemporary trends in business management research: Sustainability, Innovation & growth	Chandigarh Group of Colleges, Jhanjeri, Mohali Punjab	Tanu Sharma	Presented a paper

8.5.4.2 Seminars

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
03 May 2025	One-Day Faculty Development Program	JUIT	Ranjith Kallyani	Resource Person Prof. Mukesh Singh Senior Member IEEE,

	On "How to Write a Successful Research Project"			Department of Electrical and Instrumentation Engineering TIET, Patiala
11th April 2025	Beyond NEP 2020 - Exploring Key Conceptual Categories	JUIT	Ranjith Kallyani	Speaker: Prof. Sachidananda Mohanty Member, University Grants Commission; National Fellow, Indian Institute of Advanced Study; Former Vice Chancellor, Central University of Odisha
November 25-30, 2024	One week Faculty Development Program on "Ethnographic Research in Media Studies: Practice Based Approach"	Online	Deler Singh	Organized by Gokul Global University, Gujarat
January 13-19, 2025	One week online executive development programme on Leadership and Administration in Higher Education Institutions	Online	Deler Singh	Organized by Soundarya College Of Law, Bengaluru
03 May 2025	One-Day Faculty Development Program On "How to Write a Successful Research Project"	JUIT	Anupriya Kaur	Resource Person Prof. Mukesh Singh Senior Member IEEE, Department of Electrical and Instrumentation Engineering TIET, Patiala
July 29, 2025	One-Day Faculty Development Program on "Effective Teaching Practices in the Age of AI"	JUIT	Anupriyakaur	Resource Person Prof. Deepak Khazanchi, Nebraska USA
03 May 2025	One-Day Faculty Development Program On "How to Write a Successful Research Project"	JUIT	Tanu Sharma	Resource Person Prof. Mukesh Singh Senior Member IEEE,

				Department of Electrical and Instrumentation Engineering TIET, Patiala
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8.5.4.3 Seminars:

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>

8.5.4.4 Workshops Organized: Nil

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Participation</u>	<u>Remarks</u>

8.5.4.5 Workshops Attended

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
Feb 26 – March 05, 2024	“NEP 2020, Academic Leadership, Governance and Management”	Online - MMTTC, HPU Shimla	Amit Srivastava	
Feb 12 – Feb 20, 2024	“NEP 2020, Holistic and Multidisciplinary Education”	Online - MMTTC, HPU Shimla	Amit Srivastava	

8.5.5 Publications

8.5.5.1 Journal Publications

<u>Name of Faculty</u>	<u>Title of Article</u>	<u>Name of Journal</u>	<u>Reference</u>	<u>Citation</u>
Dr. Atul Kumar Singh	A Comparative Reading of Paninian Grammatical Tradition and Modern Science of Speech	Research Result: Theoretical and Applied Linguistics	Dwivedi, P. S., Singh, A. K. (2025). A Comparative Reading of Pāṇinian Grammatical Tradition and Modern Science of Speech, Research Result. Theoretical	0

			and Applied Linguistics, 11 (2), 3–21. [Ссылка на источник: Dwivedi, P. S., Singh, A. K. (2025). A Comparative Reading of Pāṇinian Grammatical Tradition and Modern Science of Speech, Research Result. Theoretical and Applied Linguistics, 11 (2), 3–21., URL: https://rllinguistics.ru/en/journal/annotation/3792/].	
Dr. Bilal Khan	Revisit Debt Sustainability in India under Symmetric and Asymmetric Approach	Empirical Economics Letters	Shah Husain, & Bilal Khan. (2025). Revisit Debt Sustainability in India under Symmetric and Asymmetric Approach. Empirical Economics Letters, 24(1), 163–176.	-
Triambica Gautam	Financial Evaluation of Urban Cooperative Banks - A Machine Learning Approach.	Procedia Computer Science journal	Gautam, T., Srivastava, A., Jain, S. ((2024). Financial Evaluation of Urban Cooperative Banks - A Machine Learning Approach. <i>Procedia Computer Science</i> , 235 (), pp. 3428-3437, DOI: https://doi.org/10.1016/j.procs.2024.04.323 .	-

Amit Srivastava	Efficiency evaluation of state cooperative banks employing data envelopment analysis and neural network technique	International Journal of Business Process Integration and Management	Gautam, T., Srivastava, A., Jain, S.(2024) "Efficiency evaluation of state cooperative banks employing data envelopment analysis and neural network technique," International Journal of Business Process Integration and Management,11(3), pp. 179–185.	
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8.5.5.2 Books/Book Chapters Published

Name of Faculty	Title of Book Chapter	Name of Book	Reference	Remark
Dr. Atul Kumar Singh	Masaan. A Cathartic Journey of Reconciliation with Life and Destiny	The Routledge Handbook of Indian Cinema	Singh, A. K. (2025). Massan: A Cathartic Journey of Reconciliation with Life and Destiny. In Sarkar, J., & Sarkar, A. (Eds.). The Routledge Handbook of Indian Indie Cinema (1st ed.). RoutledgeIndia. https://doi.org/10.4324/9781003612902	
Dr Deler Singh	Witnessing and Collapse of Witnessing: A Study of Chimamanda Ngozi Adichie's Half of a Yellow Sun	English Literature: Current Scenario	Singh, D. (2024). Witnessing and Collapse of Witnessing: A Study of Chimamanda Ngozi Adichie's Half of a Yellow Sun. In Sharma, J., Asaghar, S. (Eds.). English Literature: Current Scenario. AM Publishing.	

Anupriya Kaur	Green Consumer Behaviour: A Bibliometric Analysis and Insight on the Factors Influencing Green Product Adoption	Green Economics and Strategies for Business Sustainability	Kaur, S., Sharma, P., Gulati, G., & Kaur, A. (2025). Green Consumer Behaviour: A Bibliometric Analysis and Insight on the Factors Influencing Green Product Adoption. Green Economics and Strategies for Business Sustainability, 289.	
Amit Srivastava	Comparing Technical Efficiency of Higher Education across Different States of India – DEA Application	IRTHHI-2024	Sharma, H. and Srivastava A., “Comparing Technical Efficiency of Higher Education across Different States of India – DEA Application”, IRTTHI-2024, Organized by Chandigarh University, Sunway University and University of North Alabama, Chandigarh, March 14-16, 2024.	
Amit Srivastava	Human Well-Being in SAARC Nations: A HDI Perspective” in Post-Pandemic Perspectives: Public Health, Management and Socioeconomics	Authorspress	N. Sharma, S. Khanna and A. Srivastava, “Human Well-Being in SAARC Nations: A HDI Perspective” in Post-Pandemic Perspectives: Public Health, Management and Socioeconomics, Authorspress [ISBN 978-93-5529-783-9].	

Amit Srivastava	Assessing the Indirect Effect of Economic Growth among Government Expenditure and Human Development: A Study of Northern Region of India	Global Business and Societal Reset	N. Sharma, S. Khanna and A. Srivastava, "Assessing the Indirect Effect of Economic Growth among Government Expenditure and Human Development: A Study of Northern Region of India", in Global Business and Societal Reset, Weser Books, Germany [ISBN: 978-3-96492-479-9].	
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8.5.5.3 Conference Publications

Name of Faculty	Title of Article presented	Name of conference	Reference	Dates
Neena Jindal	The intersection of CSR, Governance and Political Leadership in India	10 th International Conference on Global Business Environment	Jindal N, Sharma T (2025) The Intersection of CSR, Governance and political Leadership in India. In 10 th international Conference on Global Business Environment "international Business Diplomacy, Global trade, and Economic Development in Developing Countries" held at IIM Bhubaneshwar.	24-25 January 2025
Tanu Sharma	Harnessing Artificial Intelligence to Promote Spiritual intelligence Via social media		IEEE Explorer	

8.5.6 Guest Lectures

Institution visited	Dates	Aim of visit	Participation	
			Students	Faculty
University of Calicut, Kerala	June 16, 2025	To deliver invited talk on the topic "Is Science Scientific"		Ranjith Kallyani

8.5.7 Recognition & Awards: Nil**8.5.8 Composition of Various Bodies****Board of Studies (BOS)**

Sr. No	Name	Designation	Institution
1	Dr Amit Srivastava	Chairman & Head	HSS, JUIT
2	Dr Anupriya Kaur	Professor	HSS, JUIT
3	Dr Tanu Sharma	Associate Professor	HSS, JUIT
4	Dr Deler Singh	Assistant Professor	HSS, JUIT
6	Dr Kamal Kumar Chaudhary	Head, HSS	IIT Ropar
7	MrNeelabh Singh	Principal Project Manager	ST Microelectronics
8	Ms Ana Agarwal	Senior Director	Treebo Hotel
9	Dr. Sunil Kumar Khah	Professor	PMS, JUIT
10	Dr. Vikas Baghel	IQAC Representative	ECE, JUIT
11	Dr Rajiv Kumar	Professor & Head	ECE, JUIT
12	Dr Vivek Sehgal	Professor & Head	CSE&IT, JUIT
13	Dr Sudhir Kumar	Professor & Head	BT&BI, JUIT
14	Dr. Ashish Kumar	Professor & Head	CE, JUIT
15	Dr PB Barman	Professor & Head	PMS, JUIT
16	Dr RK Bajaj	Professor & Head	Maths, JUIT

Academics				
SNo	Responsibility	Coordinator	Co-coordinator	Members
1	Centre for Management Studies	Prof Amit Srivastava	Prof Anupriya Kaur	Dr Tanu Sharma, MsTriambica Gautam
2	UG / MOOCs Cordinator	MsTriambica Gautam		

3	BBA Programme Coordinator	Dr Tanu Sharma		
4	HSS Mentoring Coordinator	Dr Deler Singh		
5	BBA - Mentor 1st year	Dr Neena Jindal		
6	BBA - Mentor 2nd year	Prof Anupriya Kaur		
7	Institute Innovation Council	Prof Anupriya Kaur	Dr Ranjith Kallyani	
8	Curriculum Revision / Benchmarking Committee	Prof Amit Srivastava	Prof Anupriya Kaur	Dr Tanu Sharma Dr Deler Singh
9	Language Lab Coordinator	Dr Atul Kumar Singh		
10	PhD Coordinator	Dr Atul Kumar Singh		
11	Committee for Liberal Arts	Dr Deler Singh	Dr Atul, Dr Bilal, Dr Ranjith, Dr Neena	
Departmental Records and Reports				
SNo	Responsibility	Coordinator	Co-coordinator	Members
12	Course Curriculum	MsTriambica Gautam	Dr Bilal Khan	
13	Course Files	Dr Deler Singh	Dr Bilal Khan	Prof Anupriya, Dr Tanu
14	Time Table Coordinator	Dr Tanu Sharma		
15	NAAC Coordinator	Prof Anupriya Kaur	Dr Neena Jindal	
16	IQAC Coordinator	Prof Anupriya Kaur	Dr Neena Jindal	

17	BBA Program Committee	Prof Amit Srivastava	Prof Anupriya, Dr Tanu, MsTriambica	
18	Moodle Coordinator	Dr Deler Singh	Dr Ranjith	
19	BOS Coordinator	Dr Neena Jindal	Dr Atul Kumar Singh	
20	Attendance Coordinator	MsTriambica Gautam		
21	Hilly Ramblings Coordinator	Dr Atul Kumar Singh		
22	Annual Report Coordinator	Dr Tanu Sharma	Dr Atul Kumar Singh	
23	Website Coordinator	MsTriambica Gautam	Dr Atul Kumar Singh	
24	Deptt Folder at dot 6	MsTriambica Gautam		
Research				
SNo	Responsibility	Coordinator	Co-coordinator	Members
25	Faculty Research Publications	Dr Ranjith Kallyani		
26	Google Scholar Coordinator	Dr Ranjith Kallyani		
27	Conferences, Workshops, FDPs	Prof Anupriya Kaur	Dr Tanu Sharma Dr Deler Singh	Dr Bilal, Dr Ranjith, Dr Atul
28	PhD Admission Committee	Prof Anupriya Kaur	Dr Atul	
29	BBA Admission Committee	Dr Tanu Sharma	MsTriambica Gautam	Dr Bilal, Dr Ranjith, Dr Atul

Training and Placement				
SNo	Responsibility	Coordinator	Co-coordinator	Members
30	T & P Coordinator	Dr Bilal Khan	Dr Tanu, Dr Deler	
31	Online Internship	Prof Anupriya Kaur	Dr Bilal	
32	Department Blog	Dr Ranjith Kallyani	Dr Atul Kumar Singh	
33	Social Media Coordinator	Dr Ranjith Kallyani	Dr Atul Kumar Singh Mr Mahender Thakur	
34	Physical Outreach Committee	Dr Tanu Sharma	Dr Deler, Dr Bilal, Dr Atul, Dr Neena	
35	Expert Talk Coordinator	Dr Neena Jindal	Dr Ranjith	Prof Anupriya, Dr Tanu

9. DEPARTMENT OF MATHEMATICS

9.1 Vision and Mission

(a) Vision. To produce leaders in technology with excellent analytical skills through mathematics education at global level and training the students in acquiring conceptual understanding of the framework and structure of mathematics, its logical, cognitive and operational processes, and applications.

(b) Mission:

M1: To provide an environment to students where they can learn and be competent users of mathematics and its applications

M2: To strive by introducing the students to main ideas and methods of Mathematics for building up their reasoning and analytical skills.

M3: To provide quality Mathematics education to enhance the capability and competence in assimilating, dissecting and distilling information for engineering and technology applications.

9.2 Faculty Details

S. No.	Name	Qualification	Specialization
1.	Prof. Rakesh K. Bajaj	PhD	Fuzzy Information Measures & Decision Making
2.	Prof R S Raja Durai	PhD	Algebraic Coding Theory
3.	Dr Neel Kanth	PhD	Mathematical Modeling
4.	Dr Pradeep Kumar Pandey	PhD	Differential Geometry
5.	Dr Saurabh Srivastava	PhD	Nonlinear Programming (Operations Research)
6.	Dr Mandeep Singh	PhD	Nonlinear Boundary Value Problems
7.	Dr Bhupendra Kumar Pathak	PhD	Evolutionary Computational Methods, Soft Computing Techniques & Applied Optimization
8.	Dr Sriti Thakur	PhD	Data hiding techniques, Data compression, Cryptography & Information security

9.3 Programs Offered by Department

9.3.1 PhD Program

The Department of Mathematics at Jaypee University of Information Technology (JUIT), Waknaghat, has been an integral part of the institution since its inception. Initially established to support the foundational mathematical needs of B.Tech. programmes, the

department has since evolved into a vibrant hub of advanced research and interdisciplinary collaboration.

Research Areas: The department offers a dynamic research environment with diverse interests in both pure and applied mathematics. Major research domains include:

- 1) Applied Group Theoretic Techniques and Discrete Symmetries
- 2) Mathematical Modeling and Simulation
- 3) Nonlinear Partial Differential Equations
- 4) Linear Algebra and Numerical Methods
- 5) Operations Research and Nonlinear Programming
- 6) Differential Geometry, Global Analysis
- 7) Wavelets and Differential Equations
- 8) Algebraic Coding Theory and Sequence Design
- 9) Distributed Source Coding
- 10) Fuzzy Information Measures and Decision Making
- 11) Pattern Recognition and Soft Computing Techniques
- 12) Statistical Inference, Sampling, and Applied Statistics

Research Facilities: The department is well-equipped with computational tools and software essential for research and academic projects, including:

- 1) MATLAB – for mathematical modeling and simulation
- 2) SPSS – for statistical analysis and data interpretation
- 3) LINGO and LINDO – for solving linear, nonlinear, and integer optimization problems

The Department of Mathematics provides a supportive research culture, guided by experienced faculty and a commitment to academic excellence. Prospective Ph.D. scholars are invited to explore opportunities to contribute to impactful research in a collaborative academic environment.

9.3.2 B.Tech. (Mathematics & Computing)

The B. Tech. (Maths & Computing) Program is offered at JUIT jointly by the Department of Mathematics and Department of Computer Science and Engineering. The students joining B. Tech. Program are required to earn required credits through course work and dissertation distributed over 4 years to complete the Program. Mathematics is an essential scientific tool in computing, in transforming abstract quantities and modeling real-world solutions. Computing, on the other hand, is rapidly being used to solve mathematical problems in an efficient and automated manner. Because of the widespread use of computers and computer-assisted technologies, graduates with strong backgrounds in mathematics and computing are in high demand in the corporate sector. Keeping the importance of mathematics and computer science in science and engineering, B.Tech. in Mathematics & Computing is introduced. The program not only aims to provide in-depth theoretical basis in mathematics and practical training in computer science, but it also covers a variety of multidisciplinary topics such as financial engineering, numerical computing, and intelligent machines. Graduates of the program will be well prepared for advanced degrees and careers in a wide range of industrial disciplines. The curriculum is developed in such a way that this degree is ideal for students who want to combine strong mathematical and analytical components with an emphasis on artificial intelligence.

Features of the Program:

- 1) The program is made up of 50% mathematics and 50% computer science inclusive of artificial intelligence techniques.
- 2) The students will be able to select elective courses from a wide range of options across the departments of the university.
- 3) Most of the courses are designed to give theoretical and practical knowledge of the subjects through labs and practical sessions.

9.3.3 Bachelor of Computer Applications (BCA) 2025-26 Annual Report

The Bachelor of Computer Applications (BCA) program offered by the Department of Mathematics is a three-year undergraduate course designed for students aspiring to build successful careers in the field of Computer Applications, Information Technology (IT), and IT-enabled Services. The curriculum of the BCA programme focuses on three major core areas i.e., Artificial Intelligence & Machine Learning, Cyber Security and Data Science /Analytics. The program aims to provide a strong academic foundation along with extensive hands-on training, enabling students to apply theoretical knowledge to real-world challenges. Through a blend of core computing subjects and practical experience, students are prepared to meet the dynamic demands of the tech industry. The curriculum includes in-depth coverage of key areas such as:

1. Machine Learning
2. Database Management Systems
3. Computer Networks
4. Data Structures
5. Programming Languages (C, C++ Java, Python)
6. Software Engineering

In addition to technical knowledge, the BCA program focuses on fostering essential communication skills, social responsibility, and professional ethics, equipping students to work effectively in diverse team environments and contribute meaningfully to society. A significant emphasis is placed on creativity and innovation, encouraging students to explore design and development trade-offs and deliver efficient, real-time IT solutions. The program also instils a mindset of lifelong learning, essential for adapting to the ever-evolving technology landscape.

1. Graduates of the BCA program are well-prepared for a variety of roles, including:
2. Software Development
3. Web and Mobile Application
4. Design Systems and Network Administration
5. Cybersecurity Implementation
6. IT Project Management

With its industry-oriented approach, the BCA program ensures students are job-ready and capable of thriving in both corporate and entrepreneurial environments.

9.3.4 **Research Projects Sanctioned during the Academic Year/In Progress:**NIL9.3.4.1 **Conferences****Conferences Organized**

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>No. of participants</u>	<u>Remarks</u>
Nil	Nil	Nil	Nil	Nil

Conferences Attended

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
Nil	Nil	Nil	Nil	Nil

9.3.4.2 **Seminars****Seminars Organized**

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>No. of participants</u>
22 Dec 2024	National Mathematics Day - 2024	Online	Pradeep Kumar Pandey	70

Seminars Attended

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
Nil	Nil	Nil	Nil	Nil

9.3.4.3 **Workshops Attended**

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
22-27 Dec 2024	One Week Online FDP on "Data Science in Financial Statistics & Predictive Analysis with R"	JUIT, Waknaghat	Dr. Mandeep Singh	Nil
11 – 22, November, 2024	Interdisciplinary Refresher Course on "Research, Writing and Analysis	Malviya Mission Teacher Training Centre, IITDhanbad, Jharkhand, India	Dr. Bhupendra Kumar Pathak	Nil

9.3.4.4 Workshops Organized

Publications

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>No of Participants</u>
8-13 July 2024	One-week Workshop on “Fundamentals of Differential Equations with Applications to Real World Problems”	JUITWakn aghat	(Coordinators) Dr. Mandeep Singh, Dr. Saurabh Srivastava, Dr. B K Pathak	53
22-27 Dec 2024	One Week Online FDP on “Data Science in Financial Statistics & Predictive Analysis with R”	JUITWakn aghat	Dr. Pradeep Kumar Pandey, & Dr. SaurabhSrivastav a	50
22-30 April 2025	Malaviya Mission Training Programme for capacity building of Faculty Members in Higher Education Institutions (HEI’s), NEP – 2020 - Academic Leadership, Governance & Management	JUIT, Waknagha t& HPU Shimla	Dr. Rakesh K Bajaj (Co- ordinator)	70
9-21 June 2025	Two Weeks NCM Sponsored Workshop on Analysis of Dynamical System and Application in Control Systems	JUITWakn aghat&NC M (joint centre of TIFR Mumbai &IIT Bombay)	Dr Saurabh Srivastava & Dr B K Pathak (Coordinator) Prof. Rakesh K Bajaj (Organizer)	50

Journal Publications

Name of Faculty	Title of Article	Name of Journal	Reference	Citation
Mandeep Singh	"An iterative technique for a class of highly nonlinear BVP arising in a one-dimensional corneal shape model",	Engineering Computations	Vol. 41 No. 10, 2024, pp. 2313-2334. https://doi.org/10.1108/EC-03-2024-0235	
Mandeep Singh	An efficient recursive technique with Padé approximation for a kind of Lane–Emden type equations emerging in various physical phenomena,.	Mathematics and Computers in Simulation	Volume 227, 2025, Pages 511-526	
Saurabh Srivastava	Statistical Design and Analysis for Enhanced Production of Tetracycline-Conjugated Copper Oxide Nanoparticles with Improved Antimicrobial Properties.	ChemistrySelect	Vol. 9 No. 41, pp 1-17, 2024, doi: https://doi.org/10.1002/slct.202402210	
Saurabh Srivastava	A stochastic technique to solve interval non-linear programming problems using GH-difference.	Engineering Computations	Vol. 41 No. 5, pp. 1353-1368, 2024, doi: 10.1108/EC-09-2023-0624	
Saurabh Srivastava	An inventory model for perishables with fixed storage life and diminishing ability to buy in their life expectancy.	International Journal of Operational Research	Vol. 49 No. 2, pp. 187-203, 2024, doi: 10.1504/IJOR.2021.10040828	
Rakesh K Bajaj	Developing Neutrosophic Cubic Spherical Fuzzy Sets along with their Exponential Aggregation Operators for Decision-Making Problems	Neutrosophic Sets and Systems	70, pp. 197-216, DOI: https://doi.org/10.5281/zenodo.1317313	
Rakesh K Bajaj	Schweizer-Sklar T-Norm Operators for Picture Fuzzy Hypersoft Sets: Advancing Sustainable Technology in Social Healthy Environments.	Computers, Materials & Continua,	2025, pp. 1-24, DOI: https://doi.org/10.32604/cmc.2025.066310	
Rakesh K Bajaj	On clustering and TOPSIS decision-making technique with new trigonometric information measures under T-spherical fuzzy hypersoft structures.	Expert Systems with Applications,	289 (128356), pp. 1-19, 2025, DOI: https://doi.org/10.1016/j.eswa.2025.128356	

Rakesh K Bajaj	Innovative Evaluation Framework for Consumer Electronics-Enabled Intelligent Transportation Systems: Leveraging q-Rung Picture Fuzzy Hypersoft Schweizer-Sklar Aggregation Operators	IEEE Open Journal of the Computer Society	19 (2025), pp. 1-12, DOI: 10.1109/OJCS.2025.3571815	
Pradeep Kumar Pandey et al.	A Note on the Silver Hessian Structure	Journal of Science and Arts	Vol. 24 (2), pp 375-388, (2024).	
Bhupendra Kumar Pathak	Lagrange's Interpolation Embedded Multi-Objective Genetic Algorithm to Solve Non-linear Multi-Objective Optimization Problems	Informatica	Vol. 48(4), pp. 699–706, 2024	
Bhupendra Kumar Pathak	Multi-objective Service Composition Optimization Problem in IoT for Agriculture 4.0	Computing	Vol. 106, pp. 4039–4056, 2024	
Bhupendra Kumar Pathak	Integrated LI-NSGA-II Approach for Solving the Non-linear Multi-objective Optimization Problem	Austrian Journal of Statistics	Vol. 53, pp. 40-52, 2024	
Bhupendra Kumar Pathak	A Non-Linear Multi-Objective Service Composition Optimization for Smart Agriculture with Lagrange's Interpolation-based Evolutionary Algorithm	Electrica	Vol. 24(3), pp. 670-681, 2024	
Bhupendra Kumar Pathak	Adopting an Improved Genetic Algorithm for Multi-Objective Service Composition Optimization in Smart Agriculture	Austrian Journal of Statistics	Vol. 53, pp. 11–25, 2024	
Bhupendra Kumar Pathak	Multi-objective Service Composition Optimization in Smart Agriculture Using Fuzzy-Evolutionary Algorithm	Operations Research Forum	5 (Article number 43), pp. 1-24, 2024	
Bhupendra Kumar Pathak	Driver Drowsiness Detection System	International Journal of Engineering and Manufacturing	Vol. 4, 26-36, 2024	

Books/Book Chapters Published

Name of Faculty	Title of Article	Name of Book	Reference	Citation
Rakesh K Bajaj	On Quadripartitioned Neutrosophic Hesitant Fuzzy Set and Its Application in a Pattern Recognition Problem.	Algorithms for Intelligent Systems (AIS), Springer	In Algorithms for Intelligent Systems (AIS) 2nd., pp. 541-550 Singapore: Springer Nature. [ISBN : 978-981-96-3255-8]	
Rakesh K Bajaj	Distance and Similarity Measures of q-Rung Picture Fuzzy Hypersoft Set with Application in Pattern Analysis.	Algorithms for Intelligent Systems (AIS), Springer	In Algorithms for Intelligent Systems (AIS) 2nd., pp. 525-539 Singapore: Springer Nature. [ISBN : 978-981-96-3255-8]	
Rakesh K Bajaj	On Clustering Analysis Under Novel Similarity Measures of T-Spherical Fuzzy Hypersoft Sets.	Algorithms for Intelligent Systems (AIS), Springer	In Algorithms for Intelligent Systems (AIS) 2nd., pp. 15-31 Singapore: Springer Nature. [ISBN : 978-981-96-3256-5]	
Rakesh K Bajaj	'Useful' Information Measure for Complex Fuzzy Set with Divergence Measure and Computation of Hybrid Ambiguity.	Emerging Trends in Artificial Intelligence, Data Science and Signal Processing, Springer	In Emerging Trends in Artificial Intelligence, Data Science and Signal Processing 1, pp. 136-147 Singapore: Springer Nature. [ISBN : 978-3-031-88762-8]	

Conference Publications

Name of Faculty	Title of Article	Name of Conference	Reference	Citation
Rakesh K Bajaj	A Secure Signature Verification Mechanism for Smooth Authentication Process	<u>2024 IEEE International Students' Conference on Electrical, Electronic and Computer Science (SCEECS)</u>	Bhumika Chaddha, Varun Shukla, and Rakesh K. Bajaj. "A Secure Signature Verification Mechanism for Smooth Authentication Process" <i>2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)</i> . IEEE, 2025.	1
Rakesh K Bajaj	A Secure Message Encoding & Decoding Method Using Images.	<i>2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)</i>	Pipania, A., Shukla, V. and Bajaj, R.K., 2025, January. A Secure Message Encoding & Decoding Method Using Images. In <i>2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)</i> (pp. 1-5). IEEE.	
Bhupendra Kumar Pathak	Analyzing the Impact of Uncertainties with Fuzzy Logic on Service Composition in Smart Agriculture	International Conference on Emerging Smart Computing and Informatics (ESCI),	AISSMS Institute of Information Technology, Pune, India. Mar 5-7, 2024.	

Guest Lectures

Name of Faculty		Designation of Faculty	Topic of Lecture	Date	Venue
Dr. Saurabh Srivastava		Assistant Professor (Senior Grade)	Fundamental Principles of Counting, Permutation & Combination, Basic Laws of Probability, Applications of Bayes' Theorem	Sep. 05, 2024	SCERT, Solan, H.P.

Lectures Delivered by Faculty

Name of Faculty	Designation of Faculty	Topic of Lecture	Date	Venue
Dr. Saurabh Srivastava	Assistant Professor (Senior Grade)	R Programming	Dec. 22, 26, and 27, 2024	Jaypee University of Information Technology, Wagnaghat, Solan, H.P.
Dr Rakesh K Bajaj	Professor & HoD	NEP 2020	June 10, 2025	Jaypee University of Information Technology, Wagnaghat, Solan, H.P

9.3.5 Composition of Various Bodies**Board of Studies (BoS)**

S.No.	Name	Designation	Institution
1.	Prof. Rakesh Kumar Bajaj	Professor & HoD (Maths)	JUIT, Wagnaghat
2.	Prof. R. S. Raja Durai	Professor (Maths)	JUIT, Wagnaghat
3.	Dr. Neel Kanth	Associate Professor (Maths)	JUIT, Wagnaghat
4.	Dr Bhupendra K Pathak	Assistant Prof. (Maths)	JUIT, Wagnaghat
5.	Dr Surajit Kumar Hazra	Associate Prof. (PMS)	JUIT, Wagnaghat
6.	Prof. P. B. Barman	Prof. & HoD (PMS)	JUIT, Wagnaghat
7.	Prof. Sudhir Syal	Prof. & Dean (R&I)	JUIT, Wagnaghat
8.	Prof. Ashish Kumar	Prof. & HoD (CE)	JUIT, Wagnaghat
9.	Prof. Vivek Sehgal	Prof. & HoD (CSE & IT)	JUIT, Wagnaghat
10.	Prof. Rajiv Kumar	Prof & HoD (ECE)	JUIT, Wagnaghat
11.	Prof. Amit Srivastava	Prof. & HoD (HSS)	JUIT, Wagnaghat
12.	Prof. Sunil Kr Khah	IQAC Chairman	JUIT, Wagnaghat
13.	Prof. M. K. Sharma	Prof. & HoD (Maths)	TIET, Patiala
14.	Dr. Gaurav Mittal	Scientist	DRDO, Delhi
15.	Mr. Abhinav Anand	SRQ Researcher	NatWest Markets London, UK

10. DEPARTMENT OF PHYSICS & MATERIALS SCIENCE

10.1 Vision and Mission

(a) **Vision.** To train students by imparting quality education in Physics & Materials Science in order to cultivate their professional skills for independent outlook towards higher education, research and technological development

(b) **Mission**

M1: To impart outcome-based education for preparing students to face challenges in industry and academia

M2: To strive for excellence in performance-based teaching and research in order to maintain high levels of professionalism and integrity

M3: To be recognized in scientific community in the fields of microstrip devices, nanomaterials, energy materials and sensors

10.2 Faculty Details

S.No.	Name	Qualification	Specialization
1.	Prof (Dr) P B Barman	PhD	III-V compound semiconductors, Nanotechnology, Ferrites
2.	Prof (Dr) Sunil K. Khah	PhD	Microstrip Antennas
3.	Prof (Dr) Vineet Sharma	PhD	Amorphous Semiconductors
4.	Dr S K Hazra	PhD	Gas Sensors
5.	Dr R R Singh	PhD	Quantum-Dots, Magnetic nanoparticles
6.	Dr S K Tiwari	PhD	Optical & Magnetic studies/ZnO
7.	Dr Santu Baidya	PhD	Computational/Theoretical Condensed Matter Physics
8.	Dr Haresh Raval	PhD	High Energy Physics

10.3 Programs

10.3.1 Undergraduate Program

Department of Physics and Materials Science offers the following courses to various undergraduate Programs:

Core Courses

S No	Title of Course	Course Code
1	Engineering Physics - I	18B11PH111
2	Engineering Physics Lab - I	18B17PH171
3	Basic Engineering Physics - I	18B11PH112
4	Basic Engineering Physics Lab - I	18B17PH172
5	Engineering Physics - II	18B11PH211
6	Engineering Physics Lab - II	18B17PH271
7	Bio-Instrumentation Techniques	18B11PH212
8	Science & Technology of Materials	18B1WPH531
9	Applied Materials Science	18B1WPH532

Elective Courses

S No	Title of Course	Course Code
1	Nanotechnology	18B1WPH731
2	Optical Fiber Network Design	18B1WPH732
3	Optoelectronic Devices	18B1WPH831
4	Biosensors	21B1WPH831
5	Computational Nanotechnology	22B1WPH731

10.3.2 Postgraduate Program

The Department of Physics and Materials Science offers the MSc program in Physics.

Semester III

S. No.	Course Code	Course Name	L-T-P	Credit
I	18MS1PH312	Advanced Quantum Mechanics	3-0-0	3
II	18MS1PH313	Condensed Matter Physics-II	3-0-0	3
III	24MS1PH311	Nuclear and Particle Physics	3-0-0	3
IV	24MS9PH391	Project Part-I	3-0-0	3
V	24MSWPH331	Thin films	3-0-0	3
VI	18MS1PH311	Electronics-II	3-0-0	6

Semester IV

S. No.	Course Code	Course Name	L-T-P	Credit
VII	24M2WPH601	Biophotonics	3-0-0	3
VIII	24M2WPH602	Phase Transformation in Materials	3-0-0	3
IX	23MS9PH491	Project		15

10.3.3 PhD Program

The award of the PhD degree is in recognition of high academic achievements demonstrated by independent research and application of knowledge to the solution of technical and scientific problems. Creative and productive inquiry is the basic requirement underlying research work. The academic program leading to the degree involves fulfilling course credit requirements, residential requirements, and a thesis giving a critical account of the research carried out in any of the thrust areas listed: Materials Science, Microstrip Antenna, Computational Physics, and High Energy Physics.

10.4 Laboratory Facilities

10.4.1 Laboratory Staff with Qualification

1.	Kamlesh Kr Mishra	Sr. Lab Engineer	M.Tech.
2.	Ravendra Kr Tiwari	Lab Technician	BSc (PCM)
3.	Priya	Lab Assistant	BSc

10.4.2 Laboratories with major equipments

(a) **Material Science Laboratory**

The Materials Science laboratory is equipped with

1. Thermal/E-Beam Vapour deposition unit
2. Hydraulic press
- a. High temperature two probe set-up with TPX-600°C PID controller, 1500 V EHT power supply, high resolution picoammeter, and Dielectric constant measurement setup.

(b) **CVD Laboratory**

CVD laboratory is equipped with

1. Microprocessor controlled furnace used for annealing thin films upto 1400°C in presence of specific gases such as argon, nitrogen etc. Also it is used to prepare carbon nanotubes (CNT).
2. Specially designed chamber to synthesize thin films in the presence of magnetic field by using vapour technique.

(c) **Nanotechnology Laboratory**

The nanotechnology laboratory is well equipped with

1. Muffle furnace
2. Hot air oven
3. Spin coating unit
4. Single pan highly sophisticated balance
5. Magnetic stirrers

(d) Characterization Laboratory

Characterization laboratory is equipped with various characterization techniques:

1. Perkin Elmer Lambda 750 UV-visible-NIR spectrophotometer having range 190-3300 nm
2. LS-55 spectrophotometer (Perkin Elmer) to record photoluminescence spectra in the range of 200-900 nm.
3. STM
4. Keithley's Picoammeter and gas sensor setup.

(e) EM Analysis Laboratory

The electromagnetic analysis laboratory is equipped with adequate software and hardware facilities. The laboratory has antenna design softwares like

1. HFSS
2. IE3D
3. EMPIRE EXCEL

Also, the laboratory has the facility for fabrication and analysis of antenna by using

1. PCB Design Machine
2. Vector Network Analyzer

(f) 2D growth Laboratory

2-dimensional (2-D) growth laboratory is equipped with

1. Advanced Chemical vapour deposition unit for thin film fabrication which provides an option to grow materials in low pressure and atmospheric pressure.
2. Specially designed chamber for testing hydrogen gas storage in materials.

10.5 Research Projects Sanctioned during the Academic Year/In Progress: 02

S. No.	Name of Faculty	Project title	Funding Agency	Amount sanctioned	Duration	Current Status
1	Sanjiv K. Tiwari (P.I) & Sunil Kumar Khah (Co-PI)	Development of ZnO-based nanogenerator for small electrical devices	HP Council for Science, Technology and Environment	6,55,000.00	Two years	Completed on 31 st march 2025
2	Santu Baidya	Study of the effect of topological phases on thermoelectric materials with low thermal conductivity	Science and Engineering Research Board (SERB)	895544.00	Two years	Ongoing

10.6 Conferences, Seminars and Workshops / Faculty development program-NIL

10.6.1 Conferences

Conferences Organized: NIL

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>

Conferences Attended:

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>

10.6.2 Session Chaired:

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
8th March 2025	7th IEEE International Conference on Signal Processing, Computing and Control (ISPPCC-2025)	JUIT	Dr. Ragini Raj Singh	
8 th October 2024	International Conference on Recent Developments in Interfaces of Chemistry, Biology & Materials Science towards Health and Environment (ICBMHE-2024)	JUIT	Dr. Vineet Sharma	Judge for Oral presentations
28 th Feb, 2025	4 th National Science day Symposium (NSDS-2025)	JUIT	Dr. Vineet Sharma	Judge for model & Poster Competitions

10.6.3 Seminars

Seminars Organized: Nil

Seminars Attended: NIL

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>

10.6.4 **Workshops****Workshops Organized:**

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>
23 rd August 2024	National Space Day	JUIT	Ragini Raj Singh	
28 th February 2025	National science day Symposium	JUIT	Ragini Raj Singh	

Workshops Attended: NIL

<u>Dates</u>	<u>Subject</u>	<u>Venue</u>	<u>Faculty Name</u>	<u>Remarks</u>

10.7 **Publications**10.7.1 **Journal Publications**

Name of Faculty	Title of Article	Name of Journal	Reference	Citation
S.K. Tiwari	Synthesis and analysis of surface defect induced tuning of band bending and work function of ZnO nanoparticles	<i>Surface and Interfaces</i>	Vol 68, 106686 (2025)	
Vineet Sharma	Improvement in magnetic behaviour on Erbium addition to Co-Mn ferrite nanoparticles for magnetic device applications	<i>Ceramic International</i> <i>Physica B</i>	Volume 51(3) (2025) pp. 3714–3728 Volume 689	03 02

Vineet Sharma	Enhancing the stability of Sb ₂ Se ₃ alloy through structural alterations on Bi addition		(2024) 416214 (1-8)	
R. R. Singh	Comparative investigation of magneto-fluorescent core@shell nanostructures prepared using hard and soft ferrite as core	<i>Ceramic International</i>		
R. R. Singh	A review on polymer electrolyte materials in context to modifications in PVDF-HFP polymers	<i>Journal of Solid state Electrochemistry</i>		
S.K Hazra and P.B. Barman	Recent advancement in selective gas sensors and role of machine learning	Journal of Alloys and Compounds	Vol 1030, P 180757 (2025)	
S.K Hazra and P.B. Barman	Role of catalyst oxidation states in the selective detection of reducing gases: A comparative study of nanocomposites based on Au and chemically/ thermally reduced graphene oxide	Materials Science and Engineering B	Vol 308, p 117605, (2024)	

10.7.2 Books/Book Chapters Published: NIL

Name of Faculty	Title of Chapter	Name of Book	Reference	Citation

10.7.2.1 Conference Publications: NIL

Name of Faculty	Title of Article presented	Name of conference	Reference	Dates

10.8 Guest Speakers/Lectures/ Visits**10.8.1 Guest Speakers:**

1. Popular talk on & quot; Indian Space Programme and its applications" by IIRS, ISRO, Dehradun on First National Space Day at JUIT, Dr. Harish Chandra Karnatak Friday, 23 August · 11:00am – 12:00pm
2. Popular Lecture for College Students on “Industrial Application of Genetically Altered Algae in Carbon Capture and Sustainability” Dr. Shashi Kumar, ICGEB, New Delhi 28 th February · 11:00am – 11:45am
3. Popular Lecture for College Students on “Use of Artificial Intelligence in Biotechnology and Health Sciences” Dr. Dinesh Gupta, ICGEB, New Delhi 28 th February · 12:00pm – 12:45pm

10.8.2 Lectures Delivered by Faculty:

Dates	Subject	Venue	Faculty Name	Remarks
April 21, 2025	Nanoscience & Nanotechnology	DIET, Solan	Ragini Raj Singh	Expert talk delivered.
April 21, 2025	Manipulation & Management of Matter at Nanoscale	DIET, Solan	Ragini Raj Singh	Expert talk delivered
18 th November 2024	Dielectrics	Online	Dr. Vineet Sharma	2 weeks refresher Course on Physical, Chemical & Material Sciences under UGC-MMTTC, Himachal Pradesh University, Shimla – 5
25 th April 2025	Research and development: A holistic approach	Online	Prof.P.B. Barman	MMTTC-HPU Shimla-5

10.8.3 Visits Organized: Nil**10.9 Recognition & Awards NIL****By Faculty:**

Dates	Patent	Faculty Name	Remarks

Dates	Online certification and FDP	Faculty Name	Remarks

Students: Nil

10.10 Composition of Various Bodies

Board of Studies (BOS)

- (a) **Chairman:** Prof (Dr.) P. B. Barman (Head of the Department)
- (b) **Professors / Associate Professors & one Assistant Professor of the Dept. by rotation:**
1. Dr. Ragini Raj Singh (Associate Professor) Member Secretary
 2. Prof. (Dr.) Sunil Kumar Khah
 3. Prof. (Dr.) Vineet Sharma
 4. Dr. Surajit Kumar Hazra (Associate Professor)
 5. Dr. Sanjiv Kumar Tiwari (Associate Professor)
 6. Dr. Santu Baidya (Assistant Professor)
- (c) **Members co-opted by the BoS from other Departments of JUIT nominated by the Dean (A&R) in consultation with Head of Department:**
- | | |
|-----------------------------|------------------|
| 1. Prof. Rakesh K. Bajaj | HOD, Mathematics |
| 2. Prof. Jata Shankar | HOD, BT &BI |
| 3. Prof. Ashish Kumar | HOD, Civil |
| 4. Prof. Vivek Kumar Sehgal | HOD, CSE & IT |
| 5. Prof. Rajiv Kumar | HOD, ECE |
- (d) **Member from IQAC**
1. Dr. Vikas Baghel (Senior Grade)
- (e) **Subject expert (ACADEMIC) nominated by the Dean (A&R) on the recommendation of the Head of concerned Department:**

Members from Academic Institutions

Dr. Pushpendra P. Singh Associate Professor - Experimental Nuclear Physics
 Department of Physics
 Associate Dean (R & D)
 Project Director, DST Technology Innovation Hub - AWaDH
 Indian Institute of Technology Ropar
 Rupnagar - 140 001, Punjab, India

Members from R&D and Industry

Dr. Shovit Bhattacharya Scientific Officer (G)
 Thin Film Devices Division, Technical Physics Division
 Bhabha Atomic Research Centre (BARC), MUMBAI
 (Subject expert from R&D)

11. LEARNING RESOURCE CENTRE (LIBRARY)

- 11.1** Learning Resource Centre (LRC) is the backbone of academic and research activities of the University and has been catering to the information needs of the faculty members, staff, students, and research scholars.
- 11.2** LRC is a separate block of three storied building embedded to main academic block which accommodates 260 students at a time in order to carry any activity related to study and research. The LRC has 43741 volumes of print books, 1401 bound volumes and 4523 loose volumes of journals covering the disciplines of Computer Science Engineering, Electronics & Communication Engineering, Information Technology, Civil & Environmental Engineering, Biotechnology, Bioinformatics, Mathematics, Physics, Material Science, Management, Competitive Exams and other general subject areas. The Collection comprises of Print monograph such as Textbooks, Reference Books, Encyclopedias, Handbooks, Dictionaries, Theses, Standards, etc. It has been subscribing to 72 periodicals (journals and magazines) in print format in order to supplement teaching and research activities of the university.
- 11.3** LRC is subscribing to various online databases such as, IEEE, Science Direct (Elsevier), SpringerNature Journals, SIAM E-Books, ProQuest. These e-resources accommodate full-text of scholarly journals, and other electronic resources such as e-Books, Conference Proceedings, Transactions, Magazines and Reports, etc. These e-Resources are accessible within the university's IP range and from outside the campus most can be accessed through remote access facility of the Library. LRC has also acquired NPTEL (National Program on Technology Enhanced Learning) course contents from IIT Kanpur and hosting it on a high-capacity server for providing seamless access to users within the campus. There are 60 dedicated computer nodes and are fully connected with LAN & WiFi Internet facility. Students, faculty, research scholars can use computer facility for the purpose of browsing internet, accessing journals, reading course materials. The library is RFID (Radio Frequency Identification) equipped and fully computerized with latest version of Library Management Software known as Koha ~ an open-source integrated library management system. The collection of the library can be browsed, searched and explored with the help of OPAC (Online Public Access Catalogue) over Internet. Library has been providing dedicated terminals to access OPAC throughout the library premises. Furthermore, it has a separate dynamic website.
- 11.4** LRC remains open from 8.45 AM to 12:00 midnight. It has also developed an institutional repository by using Dspace an Open-Source Software for maintaining scholarly output of the university. Library is extending various quality services such as research support, maintaining JUIT publications database, providing anti-plagiarism detection by using Turnitin (with AI detection) & DrillBit software, locker facility for research scholars and various alert services.
- 11.5** LRC is an active member of Developing Library Network (DELNET) for resource sharing, document delivery services among the member libraries and supplementing the needs of the resources which are not available with the institute. It is also participating actively in Shodhganga (a reservoir of Theses), Shodhgangotri- a repository of Synopses/Research Proposals for PhD) of INFLIBNET. LRC has also become an active member of National Digital Library of India (NDLI) which offers free access to educational contents.

11.6 Resource Collections (Print Books)

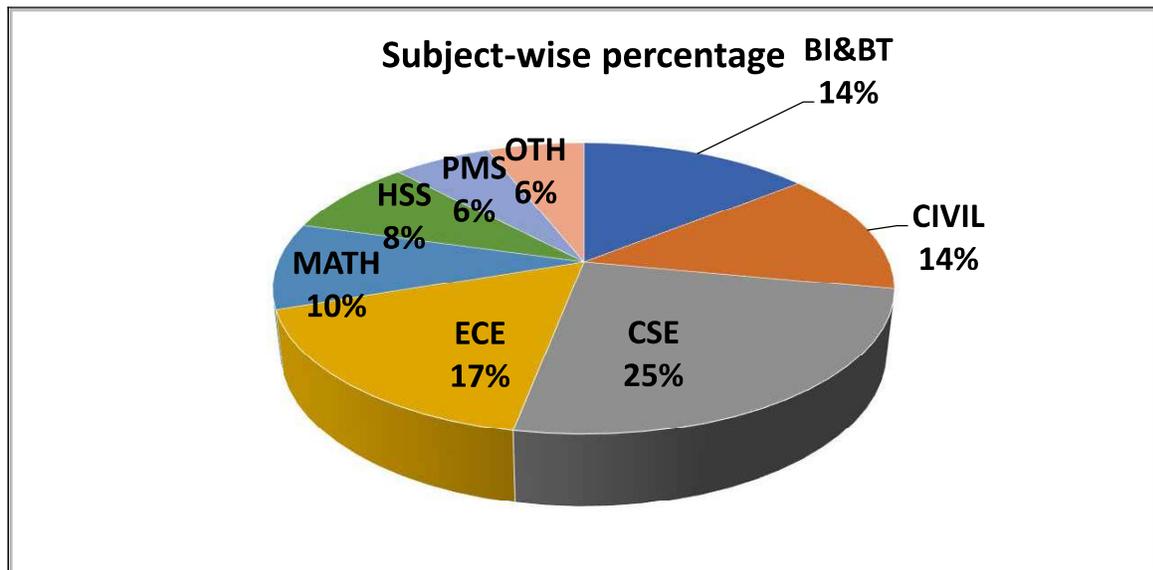
Unique Titles : 22306

Total Volume : 43741

11.7 Department-wise collection:

Department	Titles	Copies
Biotechnology and Bioinformatics	3495	6256
Civil Engineering	2786	5992
Computer Science & Engineering and Information Technology	4921	10949
Electronics & Communication Engineering	3569	7321
Humanities & Social Sciences	2544	4186
Mathematics	1991	3743
Physics and Materials Science	1137	2654
Other General Collections	1863	2640
Total Collection	22306	43741

11.8 Subject-wise percentage of books in library collection:



11.9 Online Databases Accessible at JUIT:

S. No	Database	E-Books	No. of Journals	Conference proceeding and other Collections	Total
1	IEEE	-	244	-	244
2	Springer Link	-	1713	-	1713
3	Nature Journal	-	1	-	1
4	Science Direct	-	543	-	543
5	ProQuest	29	4275	5539	9843
6	SIAM E-Books	372	-	-	372

11.10 Other Collections (in Print):

Type of Resources	Number
Print Journals (National)	33
Print Magazines	39
Back Volumes (bound/Loose)	1401/4523
BIS/IRC Code	527
Ph.D. Theses	300
Dissertations (M.Tech./M.Sc.)	865
Project Reports (B.Tech.)	3855
Newspapers (14 titles in print)	32

12. SERVER ROOM

The main objectives of the Server Room (IT Center) are to provide support to all the members of JUIT on all aspects of academic computing, to implement and maintain IT infrastructure and application software, to impart introductory and advanced instructions to users, generate trained manpower to maintain IT infrastructure (servers, desktops, network, projectors, printers, ups, Wi-Fi, sound system, DLC), to provide support to institute computerization efforts, to do in house research & development, and to serve a user population of more than 3500 users consisting of undergraduate students, postgraduate students, research scholars, faculty and staff of the institute.

In addition, it also owns the responsibility to develop and implement application software for various needs of the Institute like finance, payroll, results, MIS reports and electronic attendance system etc.

12.1 General Computing Facilities

The Server Room is equipped with IBM X series, HP and Dell rack Server for high performance Computing Server, Intel Xeon servers with multiple processors, High end Intel Xeon server with multiple processors, various engineering and technical computing software, network management tools, Client/Server Database computing system connected over a switched fast Ethernet with Optical fiber backbone.

For printing needs JUIT has total 91 printers with 16 heavy duty Network Printers.

12.2 Hardware configuration

Server configuration and Quantity			
S. No	Server	Configuration	Quantity
1	IBM System X 3400	Intel® XEON 2.0 GHz 4 GB RAM 956.32 GB SCIC HDD with RAID Support.	3
2	Lenovo workstation	Lenovo workstation E5-1603	1
3	IBM X Series 3500	Intel® XEON 2.26 GHz 6 GB DDR III RAM 1200 GB SCIC HDD with RAID 5 Support, 17-inch TFT monitor	3
4	IBM Server X3100	IBM Server intel XEON X3100 with 8 GB DDR3 ,500 GB HDD and TFT screen	1
5	IBM x-3400 M3	Server IBM Model x-3400 M3 with intel xeon quad core processor,8 GB RAM,300 GB X 4 HDD,18.5-inch TFT	1
6	HP	HP ML 110G6 Server Intel Xeon Quad Core X3430 Processor with 4 gb RAM ,250 GB Sata HDD and 18.5 TFT Screen	2
7	IBM X3300	IBM server x3300 m4 server 16 gb ram,1200 gbhdd with raid 5 card	1

8	Dell workstation	Dell Precision Tower 3420 with Intel Xeon E3-1225 3.3 ghz,8gb ddr4,19-inch tft and mouse	10
9	HP	hp dl 60 gen 9 intel xeon e5 (2.1 ghz/8core/20 mb/85w) Additional processor 2620 v4 2.1 ghz,8 core & 20 mb l3,16 gb X3 ram, HPE 240 smart HBA, hpe 6 tb hdd X4	1
10	HP	hp dl 60 gen 9 intel xeon e5 (2.1 ghz/8core/20 mb/85w) Additional processor 2620 v4 2.1 ghz,8 core & 20 mb l3,16 gb X3 ram, HPE 240 smart HBA, hpe 3 tb hdd X3	2
11	HP	hp dl 60 gen 9 intel xeon e5 (2.1 ghz/8core/20 mb/85w) Additional processor 2620 v4 2.1 ghz,8 core & 20 mb l3,16 gb X3 ram, HPE 240 smart HBA, hpe 2 tb hdd X3	1
12	Lenove	Lenovo data center solution think system sr530 with win server 2016. Intel xeon silver 4114 with 2.2 ghz processor (2 Nos) 64 gb ddr 4 ram,6 tb HDD *4 ,3 year onsite warranty	3
13	sophos	XG450 rev.2 HW Appliance with 8 GE ports,2 SFP+ ports,2 expansion bays for optional Flexi Port modules,2XSSD + Base License (inc FW, VPN & wireless) for unlimited users+ Power cable	2
14	Dell	Dell r550 with intel Xeon silver 4314,16 core,32X2 GB ram,480 X 4 ssd HDD LMS Server	1
15	HP	HPE dl 380 Gen 10 server, intel Xeon silvwe 4208, 8 core processor,4 X 32 GB RAM,5 x 480 GB SATA SSD, 2 X 800-Watt Power Suply and window server 22 with 5-year warranty	2
Total Number of Servers			34

Desktop configuration and quantity			
S.No	Brand	CONFIGURATIONS	QTY
1	Lenovo	INTEL CORE 2 DUO,160 GB HDD,2 GB RAM & 17-inch Monitor/ TFT	5
2	Lenovo	core i3-530 (2.92 GHz) with 2 GB RAM ,250 GB Sata HDD,18.5-inch TFT Monitor	10
3	Lenovo	Core I3- 2100 3.10 GHz with 2 GB RAM ,320 GB Sata HDD,18.5-inch TFT Monitor	40

4	Lenovo	Core I3- 2100 3.10 GHz with 4 GB RAM ,500 GB Sata HDD, dvdrom,18.5-inch TFT Monitor	112
5	HP	Intel core i5-6500 3.2 G 6M 2133 4C CPU with 18.5-inch TFT, KB and Mouse	190
6	Dell	Desktop Dell i5 7th gen,8 gb ram,1 tb HDD with 18.5-inch tft	300
7	HP	HP 280 G3 MT desktop	10
8	HP	Desktop Model HP 280 G4 MT	10
9	Dell	dell Desktop intel core i7-8700,8 gb dd4 ram,19 inch led, win10 pro 64 bits. 1tb hdd	10
10	Dell	Dell optiplex 3060 Minitower intel core i7 8700 with 8 gb ddr4 ram ,1 tb hdd, TFT and win 10 pro preloaded	5
11	Dell	dell optiplex 5080 intel core i7 with 16 gb ddr4 ram ,1 tb hdd, TFT and win 10 pro preloaded with 5-year warranty	70
12	Dell & Lenovo	Laptop lenovo i7 + Dell i5 (1 each)	2
13	Dell	Dell optiplex 5000 12 gen core i7,16 gb dd4 ram,512 gbssdhdd, KB Mouse ,1925-inch tft with win 11 pro preloaded.	50
14	HP	HP Pro 400 G9 260-watt desktop with Intel core i7-12700 12 core ,16 GB DDR 4,512 SSD HDD, KB, Mouse and inbuilt wifi card,19.5 Inch Monitor, DOS	30
15	HP	HP Pro 400 G9 260-watt desktop with Intel core i7-12700 12 core ,16 GB DDR 4,512 SSD HDD, KB, Mouse and inbuilt wifi card,19.5 Inch Monitor & window 11 pre loded	40
16	HP	Laptop hp i5 ,16 gb RAM 1 TB ssd	2
17	Dell	Dell Precision workstation 3460, itel core i7-12700 ,16 GB Ram ,512 SSd Hard disk,20-inch TFT and win 11 pros	30
18	HP	HP Pro 400 G9 260 watt desktop with Intel core i7-12700 12 core ,16 GB DDR 4,512 SSD HDD,KB,Mouse and inbuilt wifi card,19.5 Inch Monitor ,with win 11 Pro	50
19	HP	HP Pro tower 280 G9 desktop with Intel core i7-13700 ,16 GB DDR 4,512 SSD HDD,KB,Mouse and inbuilt wifi card,19.5 Inch Monitor ,with win 11 Pro and 5 year warranty	90

20	HP	HP pro 400 G9 AIO with win 11 Pro ,i7-13700 ,16 GB RAM.512 SSD HDD ,23.8 inch display and 3 Year warranty	60
Total Number of computers			1116

SOFTWARE DETAILS		
S.No	Product Title	No of Licenses
1	Hyperchem Release 7	10
2	Matlabver 7.1	30
	Simulink	30
	CDMA Reference Blockset	5
	Communications Blockset	5
	Communications Toolbox	5
	Signal Processing Toolbox	5
	Wavelet Toolbox	5
3	MS Office Professional Plus 2007	100
4	Windows Server Enterprises 2003	3
5	Adobe Premier Pro Ver 7.0	20
6	Cold Fusion MVLP Ver 6.1	10
7	Flash MX 2004 MVLP	20
8	Micro Media Director Shockwave Studio for windows English AE	10
9	SQL Server 2000 Standard Edtn	1
10	Windows Server CAL 2003 English OLP NL AE Device CAI	4
11	VStudio .Net Pro 2003 Win32 English OLP NL AE	15
12	Office XP Pro Win 32 English	20
13	VStudio .Net Pro 2002 Win32 English	9
14	ISA Server 2000 English	1
15	Windows Advanced Svr 2000 English.	1
	Windows CAL 2000 English OLP NL AE	23
16	DB2 UBD Enterprise Server Edition .	1
17	IBM Tivoli Storage Managed Processor	1
18	Cyberoam software for internet	1
19	Schrodinger For Biotech	1 user 25 Token
20	Lotus Domain	100
21	AutoCad 2005 Education	5
22	A'Desk 3 ds Max 6 (Edu)	20
23	Rational suit Enterprise Software	20
24	Mathematica Ver 5.0	10
25	Autocad 2004 Network User	10
26	Maple 9.5	1
27	Sun Solrix Ver 8	35

28	Window XP Proffesional	20
29	Oracle 9i	10
30	Visual Prolog ver 6.1	15
31	Soft image xsi Ver 4.0	20
32	Staad Pro	5
33	SPSS Base 16.0	15
34	Oracle 11g	1
35	Clarity Digital Multimedia Language Lab	31
	Clarity English Teaching Software from U.K	
	1. Sky Pronunciation Suite	5
	2. Connected Speech	5
	3. Tense Buster Compilation	5
36	NI Lab View Academic Site License 2010	50
37	Pasw Amos 18.0	3
38	Windows Server Enterprise 2008 with media	10
39	Bentley Civil of perpetual network based software a.Mx Road V8 b.Power Civil c.Power Map	5
40	Ansys release 12.1	1
41	HyperLynx 3d EM Super Structure Designer V 15.2	3
42	Auto CAD 2013	30
43	Matlabver 10	50
	Simulink	10
	Filter Design Toolbox	10
	Communications Blockset	10
	Communications Toolbox	10
	Signal Processing Toolbox	10
	Video and Image processing Blockser	10
44	Window server standard 2012	4
45	Geo 5 suit of Software with various modules	50
46	Xilinx UEF-VIVADO_SYSTEM	25
	Base2 100	7
	Atlys Spartan-6 FPGA Development Board	1
47	8.1 V Clarity Snet Language Lab software 1 teacher + 30 User	30 user
	Tense Buster V9 for 20 user	20 user
	Business writing for 30 user	30 user
48	SPSS Base 24.0	1
	SPSS Advance Statistics	1
	SPSS regression	1
	SPSS Neural Network	1
	SPSS conjoint	1
	SPSS Amos 24.0	1
	SPSS Categories	1
49	Acrobat Pro 2017	10
50	Windows server 2016 pro	4

51	SIMULIA Academic Teaching Suite Q9T for 20 user civil department	1
	Matlab 2018 b	25
	simulink	5
	Signal Processing toolbox	5
	dsp system toolbox	5
	communications toolbox	5
	control system toolbox	2
	image processing toolbox	2
	statistics and machine learning	2
	deep learning toolbox	2
	antenna toolbox	2
52	Full guard Subscriptions for XG450 (3 years) Full guard subscription includes Network Protection,web protection,Email protection,Web server protection and Enhanced Support	2
53	windows 10 enterprise E3	5
54	Campus Lynx	ERP
55	MS Office Professional 2021	100
56	Sophos Antivirus 500 user for desktop and 25 users for server	525
57	Corel Draw Graphics	1

12.3 Switches and Access point Model and quantity

S.NO	NAME OF EQUIPMENT	Quantity	MAKE
1	M220 Access Point	5	HP
2	V1910-24G POE switch	2	HP
3	Cisco air ap 1041 n a k9 wifi	10	cisco
4	Cisco air ap 1131 ag a k9	2	Cisco
5	5 port Dlink switch	5	Dlink
6	Catalyst 2960 48 port switch	15	cisco
7	AIR AP 1131AG-A-K9	5	cisco
8	Cisco Catalyst 9400 Series 7 slot core switch	1	Cisco
9	Catalyst 2960 24 10/100	4	Cisco
10	wifi router d link	10	dlink
11	16 Port Switch D link	1	D Link
12	Cisco 2921 w/3 GE,4 512 MB DRAM Router	1	Cisco
13	Catalyst 2960 48 10/100	5	Cisco
14	Cisco 2811 Router	1	Cisco
15	Switch 4210 26 Port 3 COM	10	3 COM
16	Core Switch 3 com 4060	1	3 COM

17	Router Cisco 2600 series	1	cisco
18	3 COM 4400 series 48 Port	20	3 COM
19	3COM 4400 Series 24 Port	2	3 COM
20	HP switch 24 G	5	HP
21	Cisco S business Switch 8 Port	3	cisco
22	cisco catalyst 2960 24 port 10/100	2	cisco
23	cisco catalyst 2960 48 port 10/100	5	cisco
24	Aruba switch 2530 48 G	11	Aruba
25	Fiber switch 48 port core	2	
26	WAN Controller	1	
27	Fiber switch 48 port with 12 port POE	2	
28	POE switch 8 Port	1	
29	ruckus Access Points	352	Ruckus
30	Cisco 9200 L 48 T - 4x - E	2	

Total Number of switches and Access point	483
Total Number of Router	3
Cisco Core switch 9400 series	1

The Server Room has a Client/Server Database Computing System – Oracle 11g with Developer 2000 version 6.0 at front end, the platform is windows 2003/2008.

12.4 Network Services

The University Local Area Network (LAN) is a state-of-the-art switched network with Fiber Optical and enhanced CAT5e/CAT6 UTP Backbone. It consists of more than 3500 network access points spread using 118 switches, 3 Cisco Routers, and 359 access point. Entire college campus including academic block, Faculty residence, SOR and all hostels is wifi and internet is provided in every room of student's hostel, faculty & staff residence, JUIT hospital, mess, laboratories and SOR.

We have 1 Gbps (1: 1) internet lease line circuit from BSNL and 500 Mbps (1:1) from Railtel on OFC. Apart from internet and intranet many more services including mail, web, and library book search, domain name, antivirus and software upgrades are being provided over this network.

JUIT is using Sophos XGS 3300 security Appliance to manage internet bandwidth and mailing services. Sophos is consisting of software firewall, anti spam controller, content filtering and antivirus protection at gateway level. Lotus Domino is being used by JUIT for official mailing services.

13. INTERNATIONAL LINKAGES OF THE UNIVERSITY:

13.1 JUIT endeavors worldwide collaborations with universities, research laboratories and industries with a view to adopt the best academic expertise. The JUIT has tie ups with following Universities and Institutions:

- (i) SD Mines University, South Dakota, USA
- (ii) University of Florida, Florida, USA
- (iii) Florida Agriculture and Mechanical University, Florida, USA
- (iv) Iowa State University, USA
- (v) University of Missouri, USA
- (vi) Tel Aviv university, Israel
- (vii) Pushchino Scientific Centre for Biological Research of the Russian Academy of Science (PSCBR-RAS), Russia
- (vii) National School of Applied Sciences (ENSATg), Morocco
- (viii) Pokhara University, Kaski, Nepal.

14. ACADEMIC ADMINISTRATION

14.1 Admission Process

14.1.1 UG Program

B. Tech

During the academic session 2024-25 admissions were carried based on JEE (Mains) and on the basis of 10+2 marks merit basis.

In BTech programs 50% seats were offered through JEE (Mains) All India Ranking basis and 50% seats were on the basis of 10+2 Merit Basis.

Admission to BTech 2nd year under (Lateral Entry) were made on the merit marks of three-year diploma / BE / BTech 1st year in related branch of engineering.

BBA

Admission to BBA Programs is through merit of 10+2 examination.

14.1.2 PG Program

M. Tech

Admission to PG programs (MTech) were offered to the eligible candidates having valid GATE score and through PGET-2024 conducted by University for Non-GATE qualified candidates followed by an interview by the PG Program Selection Board. Candidates having CGPA \geq 7.5 or equivalent percentage were offered direct admission to the program.

M. Sc

Admission to Msc programs is through merit of UG examination. Candidates having CGPA \geq 7.5 or equivalent percentage were offered direct admission to the program.

14.1.3 Doctoral Program

Admission to the PhD programs were offered to the eligible candidates having UGC/CSIR NET/SLET and through PhD Entrance Examination conducted by the University for Non-NET / SLET qualified candidates followed by an interview of the shortlisted candidates qualified in entrance examination based on their inter se merit among the shortlisted candidates.

14.1.4 Students Enrollment

The status of student strength as on 30 September 2024 is given below.

Year of Study	UG Prog.	PG Prog.
6 th Year	0	
5 th Year	03	
4 th Year	388	
3 rd Year	430	
2 nd Year	413	24
1 st Year	594	48
PhD Scholars Registered during the Academic Session 2024-25 were 117		

14.2 Faculty

The unique feature of the University is the high quality of faculty on its rolls. The faculty details with their terminal qualification are at **Appendix F**.

14.3 Results

The performance of students in the university is graded in terms of Semester Grade Point Average (SGPA) and Cumulative Grade Average (CGPA) over a scale of 10. An analysis of results of last four years is given in **Appendix G**.

14.4 Scholarships

1. **Prof. William C Webster Merit & Means Scholarship:** Eligible students get a tuition fee waiver for a year upto a maximum of one semester's fees. The scholarship was started in the year 2004-05.
2. **Students from Bhutan under Scholarship Scheme** – Students from Bhutan are exempted from paying the Tuition fee. However, they have to pay Hostel charges as applicable to other students.
3. **Teaching Assistantship for MTech Students**

GATE qualified candidates & candidates having CGPA ≥ 7.5 in UG degree are eligible for Teaching Assistantship of Rs. 12000/- per month. However, continuation of above fellowship is subject to meeting the desired criteria as per continuation criteria mentioned in JUIT Regulations & Ordinances.

4. **Research Fellowship for PhD Students**

Full time PhD scholars may be awarded Research Fellowship of Rs. 37000/- per month for the maximum duration of 03 years. The above fellowship is subject to approval and availability of funds.

15. SUSTAINABLE DEVELOPMENT GOALS (SDGs)

15.1 Sustainable development is a guiding principle for meeting human development goals while simultaneously ensuring the sustainability of natural systems and the environment. Its primary aim is to balance the needs of present and future generations by integrating economic growth, social inclusion, and environmental protection. This concept became globally recognized, and defined sustainable development as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

15.2 Key Dimensions of Sustainable Development. Sustainable development focuses on three main interconnected dimensions:

15.2.1 Economic Sustainability. This involves promoting economic growth and prosperity while ensuring that it doesn't lead to inequality or degrade the natural resources. It emphasizes innovation, efficient use of resources, and sustainable business practices.

15.2.2 Social Sustainability. This dimension focuses on promoting social equity, improving health and education, reducing poverty, and fostering inclusive, resilient communities. It encourages policies that address the well-being and quality of life for all individuals.

15.2.3 Environmental Sustainability. This involves protecting natural ecosystems, reducing pollution and greenhouse gas emissions, conserving biodiversity, and promoting renewable energy sources. The goal is to ensure that natural resources are not depleted and that ecosystems remain intact.

15.3 The chaos rendered by COVID 19 pandemic in recent past has forced Jaypee University of Information Technology (JUIT) to concentrate on Sustainable Development Goals (SDGs) in order to be prepared for unforeseen challenges and to make substantial progress with respect to its targets. The current vision of JUIT is to focus on its coexistence with its surrounding nature and suburb village population by exploiting minimum natural resources, imparting a decent education or awareness, and to motivate its students to generate new technologies for lifelong progress. Accordingly, JUIT has chosen SDGs where it has immense potential to set desired targets or estimates that can be easily achieved over a period of time. This time period is aligned with the global trend and it is expected that JUIT will maximise its efficiency by the end of 2030.

15.4 The chosen SDGs for JUIT are:

15.4.1 Good health and well-being (SDG 3)

JUIT has policies related to sustainability and inclusivity that contribute to the overall well-being of its community. The university prioritizes the physical and mental health of its community by providing a safe and secure environment.

Through its MoU with the PGI Chandigarh's Centre for Innovation and Bio-Design, JUIT is actively involved in research and development of medical devices and affordable healthcare solutions.

15.4.2 Quality education (SDG 4)

The annual targets set for the SDG in the beginning of 2024-2025 was to improve the engineering proficiency of its students, provide education to low-income communities and to eliminate loopholes such as scarce education infrastructure, student-teacher ratio and insufficient training with respect to NEP 2020 guidelines.

15.4.3. Gender equality (SDG 5)

JUIT is committed to a strong ethical foundation rooted in integration, upholding the highest standards of conduct in all its activities. The institution embodies the principle of "Respect for all" and ensures equal opportunities for women in all areas of participation. At JUIT, equal opportunities are extended to everyone, irrespective of gender, race, class, color, creed, language, religion, political beliefs, nationality, social status, property, or birth. Healthy traditions, and strong ethical values have fostered the enrollment of female students and the recruitment of women staff. The university regularly organizes awareness programs for female students and staff, prioritizing t Creating a friendly and supportive working environment remains a top priority for JUIT.

15.5.4. Clean water and Sanitation (SDG 6)

The set targets were to honor the WHO per capita water consumption limit, regular monitoring of its water sources, recycling of used water for the purpose of irrigation and recharging ground water levels, rainwater harvesting, increasing the green population of species that require less water and provide support to its surrounding village population.

15.5.5. Affordable and clean energy (SDG 7)

To implement Affordable and Clean Energy (SDG 7) at JUITWaknaghat, the university" focus on increasing renewable energy adoption, such as solar panels, to power campus operations, and improving energy efficiency through smart energy management systems and student/faculty engagement.

Initiatives include establishing a sustainable energy committee, conducting energy audits, integrating biogas from campus waste, and raising awareness through educational programs, similar to other institutions.

JUIT architecture is has strategic integration of natural light into building interiors which reduces the need for artificial lighting, thereby enhancing energy efficiency, improving occupant comfort and well-being, and fostering a connection with the outdoors.

15.5.6. Industry Innovation and Infrastructure (SDG 9)

The goal was to help startups succeed by providing them with access to resources, mentorship and education. In the period 2024-2025, JUIT was able to generate 3 spins off companies to commercialize research and knowledge.

15.5.7. Partnership for Goals (SDG 17)

JUIT has honored its past MOUs and generated new MOUs for the benefit of its students and staff members. The e-resources are always available free to one and all and is accessible from anywhere. Adequate literacy programs, and other social activities were regularly conducted in 2024-2025 under the banner of Unnat Bharat Abhiyan.

15.6 In summary it can be stated that in the year 2024-2025, JUIT was able to achieve 90% of its self-set yearly goals and provided substantial support for the development of rural population in Himachal Pradesh (H.P). The objectives such as impart awareness about the recent sustainable technologies and Government aided scheme available for their convenient livelihood in H.P will always be highlighted by JUIT students and staff in years to come. JUIT will also focus on transfer of innovations to the rural people and spread environmental awareness.

16. JUIT YOUTH CLUB (JYC)

16.1 About JYC:

JUIT Youth Club (JYC) is the name of enthusiasm, development, consistency and effort. It is the body which widens student's view from academics to various fields such as sports, literary, cultural and technical and provides opportunities to explore them. It encourages in student's expression, celebration, recognition and integration. It helps students acquire qualities like team work, sportsmanship and leadership. Not only this, it retreats students from academics by organising events, fests and other extracurricular activities. Focusing on technical, literary, sports, and cultural scopes, these competitive activities, apart from serving as a relief from intense academic load, present an opportunity to instil confidence, encourage teamwork and give students a strong sense of achievement and belonging.

16.2 Events:

16.2.1 Diksha

Event: Diksha Freshers' Night

Date: August 1, 2024

Organized by: Jaypee Youth Club

Venue: JUIT Auditorium

Theme: 90's Retro

Jaypee University of Information Technology came alive with vibrancy and nostalgia on the evening of August 1st 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 event, organised by the Jaypee Youth Club, was a resounding success, leaving both students and staff in awe of the talent, energy, and enthusiasm on display. 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. These students were honoured with gifts as a token of appreciation for their hard work and dedication, and the awards were presented by Vice Chancellor Prof. (Dr.) Rajendra Kumar Sharma, Registrar Maj Gen Rakesh Bassi (Retd.) and Brig. Raj Kumar (Retd.). This recognition highlighted the university's commitment to celebrating not only cultural and extracurricular achievements but also academic excellence, adding an extra layer of significance to the evening's celebrations. The event was an overall success due to the collective efforts of all the clubs and committees of the Jaypee Youth Club, making Diksha 2024 a truly memorable occasion for all involved.



16.2.2 Independence Day '24

Jaypee University of Information Technology (JUIT) celebrated India's 78th Independence Day 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 new Registrar, Mr. R. Sharma, Assistant Registrar, Mr. Sanjay Kumar Verma, and Havaldar 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. Havaldar 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 228synchronized 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, JUIT Youth Club (JYC) presented a powerful NukkadNatak titled "Kartavya," which focused on the heroic actions of Group Captain AbhinandanVarthaman. The performance resonated deeply with the audience, reminding everyone of the sacrifices made by the armed forces for the country's safety and sovereignty.

The Literary and Debating Club, JYC added to the patriotic atmosphere with a moving recitation of poetry by Priyanjali Chaudhary. Her verses, filled with nationalistic fervour, evoked a strong sense of pride and love for the motherland.

The event concluded with a vibrant band performance by the Theatre and Music Club, JYC, where the first-year students sang the iconic song "Maa Tujhe Salaam." The melodious rendition of this patriotic anthem brought the celebration to a grand finale, leaving everyone inspired and motivated to contribute to the nation's progress.

The Independence Day celebrations at JUIT with JUIT Youth Club not only honoured the nation's freedom but also fostered a spirit of unity, patriotism, and responsibility among the students and faculty members. The event was a true reflection of the university's commitment to nurturing well-rounded individuals who are not only academically proficient but also deeply connected to their roots and responsibilities as citizens of India.



16.2.3 Janmashtami

The Jaypee Youth Club (JYC), along with the entire Jaypee University of Information Technology (JUIT) community, recently celebrated the auspicious occasion of Janmashtami with great devotion and enthusiasm. Janmashtami, marking the birth of Lord Krishna, is a cherished tradition at JUIT, bringing together students, faculty, and staff in a collective expression of faith and cultural heritage. This year, the event was observed at the Mandir within the campus, featuring Bhajan, Kirtan, and PrashadVitran, which created an atmosphere of spiritual upliftment and community bonding.

The success of this year's Janmashtami celebration was largely due to the dedicated efforts of the JYC. With the gracious support of the university administration, the JYC took on the responsibility of organising the event, ensuring that every detail was meticulously planned and executed. From coordinating the Bhajan and Kirtan sessions to arranging for the distribution of Prashad, the JYC worked tirelessly to create an environment that honoured the sanctity of the occasion. Their efforts reflected the club's commitment to upholding the cultural and spiritual values of the university, making the celebration not just a religious observance but also a vibrant cultural event that united the entire JUIT community.

The celebrations were further enhanced by the active participation of various student groups and cultural societies within the university. These groups collaborated closely with the JYC, contributing their unique talents and resources to make the event truly memorable. The vibrant decorations, the soulful music, and the seamless organisation were all a testament to the collective effort of the entire JUIT community. This collaboration not only strengthened the bonds among the students but also fostered a deeper appreciation for the rich cultural traditions that Janmashtami represents. The spirit of unity and cooperation was evident throughout the event, leaving a lasting impression on everyone who attended.

The Janmashtami celebration at JUIT was more than just a ritual, it was a reflection of the university's deep-rooted commitment to fostering an environment where cultural and spiritual traditions are cherished and passed down through generations. All students were encouraged to participate in this event, not only to seek spiritual solace but also to experience the unity and camaraderie that define the JUIT community. As the university came together to celebrate Janmashtami, the enduring values that Lord Krishna embodies and the significance of these values in daily life were highlighted. It was a blessed and spiritually enriching Janmashtami for all.

16.2.4 Dynamic Kickoff to JUIT's National Sports Day Celebrations

Jaypee University of Information Technology (JUIT) kicked off its National Sports Day celebrations on August 29, 2024, with a day filled with fun, excitement, and friendly competition. The sports fest began with a range of events designed to engage students and set the stage for the action-packed days ahead. The JUIT Youth Club (JYC) played a crucial role in organising these events, ensuring everything ran smoothly and that participants and spectators alike had an unforgettable experience.

The **Lemon Race** was the first event of the day, held at the Football Ground in the late afternoon. This event, while seemingly simple, required participants to balance a lemon on a spoon while racing to the finish line, a task that tested their concentration, coordination, and patience. The race quickly became a favourite among both participants and spectators, with the crowd erupting in cheers as students navigated the course, carefully balancing their lemons to avoid dropping them. In the girls' category, Ipshita and Angel emerged as the winners, showcasing their skill and focus. In the boys' category, Uday Thakur took the top spot, with Vrishab Das finishing second. The event's light-hearted nature made it an enjoyable start to the sports fest, with laughter and excitement filling the air.

Meanwhile, the **Arm Wrestling** competition at the Open Cafeteria added a more intense and competitive edge to the day's activities. Participants squared off in pairs, gripping hands and straining every muscle to overpower their opponents. The event drew a large crowd, with students gathering around to witness the matches, cheering loudly for their friends. The tension in the air was palpable as each match brought a mix of anticipation and excitement. The competitors displayed remarkable strength and determination, making the event one of the day's highlights.

The **Three-Legged Race** at the Football Ground rounded off the day's events, bringing an element of teamwork and coordination to the forefront. This race required pairs of participants to tie their legs together and race to the finish line, navigating the course with synchronised steps. Anshika Bhardwaj and Ibadat emerged victorious in this challenging event, followed closely by Raghav Bhardwaj and Aryan, who took second place. The race was a perfect example of how teamwork and cooperation can lead to success, and it provided a fitting end to the day's competitions.

Throughout the day, the spirit of sportsmanship and camaraderie was evident, as participants not only competed fiercely but also supported each other, celebrating the efforts of their peers regardless of the outcome. The first day of the sports fest was a resounding success, setting a positive and energetic tone for the rest of the event, thanks to the diligent efforts of the JYC in organising and managing the activities.

As the sun set on Day 1, students left the fields and venues with a sense of anticipation for the competitions that would follow. The day's events had not only provided a platform for physical activity but also fostered a sense of community and collective spirit, embodying the true essence of National Sports Day.

16.2.5 Three-Day Sports Extravaganza Organised by JUIT Youth Club(JYC) Marks National Sports Day

In celebration of National Sports Day, the JUIT Youth Club (JYC) and Sports Club organised an exhilarating three-day sports event from August 29 to 31, 2024. The event brought together students and athletes to compete in a variety of sports, fostering camaraderie, fitness, and a spirit of healthy competition.

The first day, August 29, saw a strong start with a marathon race where JatinPatil secured the first position, followed closely by PurooravaMaitre. The day also featured fun events like

the lemon race. In the girls' category, Ipshita emerged victorious, with Angel finishing second. The boys' lemon race saw Uday Thakur taking the top spot, followed by Vrishab Das. The three-legged race was another highlight of the day, with Anshika Bhardwaj and Ibadat winning the first position, while Raghav Bhardwaj and Aryan came in second.

On August 30, the focus shifted to strength and precision with field events. Om Shree displayed an impressive performance in shot put, clinching first place with a throw of 25.8 feet, while Suryansh came second with 23.6 feet. Suryansh later redeemed himself in discus throw, where he took first place with a distance of 57.5 feet, and Dhruv followed closely behind at 54 feet. The 3v3 basketball tournaments were a key highlight of the day. In the girls' category, the team of Ojaswi Chauhan, Kritika Gupta, Ananya Sharma, and Harshita Thakur won first place, while the team of Nandini Garg, Saarvi, Khushi Goel, and Shaivya finished second. ShatakshiVashishtha was named MVP. In the boys' tournament, Rijul, Ayush, Arnab, Tushar, and Kshitij led their team to victory, with Shaurya Negi being named MVP.

Indoor sports were not left behind as AnshitPuri and Vrishab Das won the carrom tournament, with Nitish and Shashank securing second place. The planks competition was another intense contest, with Jai Chauhan taking the first position among the boys and Aniket Gupta coming second. In the girls' category, Sanya Arora took the top spot. The arm wrestling event saw impressive strength on display, with Shubham winning in the 60-70 kg category, Aryan Gupta in the 70-80 kg, Bhanu Pratap Singh in the 80+ kg, and Nishant in the 90+ kg category. The long jump event also provided thrilling moments, with Abhay Thakur winning the boys' competition and Jaspreet Kaur Rana claiming first place in the girls' division.

The final day, August 31, was packed with high-energy team events. In the relay race, the team of Avi, Seharsh, Suryaansh, and Ayush Rawat claimed first place, while the team of Rebant Thakur, Harsh Patial, Ipshit Singh, and Aaditya Pasricha secured second. The tug-of-war event closed the sports meet on a high note, with the team of Parth Joshi, Lakshit Kumar, Oshish, Aaryan, Abhinav Kumar, Rohit Singh, Javed Akhter, Harshit Sharma, Shourya Uday, and Kavyansh Gupta pulling their way to victory. The runner-up team included Adrian Thakur, Abhinav Pundir, Tanmay Sharma, Aaryan Singh, IshSachan, and Nikhil Bijarniya.

The event was a resounding success, with students showcasing their athletic abilities and teamwork, embodying the true spirit of National Sports Day.



16.2.6 Report on Dr. Kiran Seth's Visit to Campus

On September 1, 2024, our campus had the rare honor of hosting Dr. Kiran Seth, Padma Shri Awardee, Founder of Spic Macay, and Professor Emeritus at IIT Delhi. The event was an enriching experience for everyone present. The session began with an introduction to Dr. Seth's profound contributions to Indian culture and education through Spic Macay, an organization dedicated to promoting Indian classical music, dance, and culture among the youth. Dr. Seth's humble demeanour and passion for his work immediately captivated the audience. One of the most impactful segments of the session was Dr. Seth's practical

demonstration of yoga. He not only guided us through basic yoga postures but also explained their significance in our daily lives. Through simple yet effective exercises, he highlighted how yoga can correct our posture, alleviate stress, and bring about a sense of calm and balance. Dr. Seth emphasised the importance of being relaxed to enhance focus and productivity in our work. Further enriching the session, Dr. Seth showcased various Indian classical dance forms through videos. He discussed how these art forms are not only a reflection of our rich cultural heritage but also serve as a medium for personal growth and expression. The audience was particularly inspired by his explanation of why Spic Macay's mission to preserve and promote traditional Indian culture is vital in today's fast-paced world. Dr. Seth's visit left a lasting impact on all of us, inspiring students and faculty alike. His emphasis on cultural awareness, mindfulness, and relaxation resonated deeply, reminding us of the significance of balance in our hectic lives. The session was not only a learning experience but also a moment of introspection about how we engage with both our inner selves and the world around us. The event concluded with a round of applause for Dr. Seth, who left us with the realization of how Spic Macay continues to make a difference in the lives of many by connecting them to India's rich cultural roots. It was truly an unforgettable experience for everyone involved.

16.2.7 Anti-Ragging Day Report

On 12th August 2024, Jaypee University of Information Technology (JUIT) marked Anti-Ragging Day with a significant session, organised in collaboration with the Jaypee Youth Club (JYC). 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. The session was a cornerstone of JUIT's observance of Anti-Ragging Week, which ran from 12th to 18th August 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.

Following this, JYC provided a detailed explanation of the legal framework governing anti-ragging laws in India. The discussion covered the stringent measures that institutions must implement, as per the University Grants Commission (UGC) guidelines, to curb ragging and protect students. They also addressed the severe legal consequences for those found guilty of ragging, emphasising that JUIT adheres strictly to these regulations. Students were reassured that the university is proactive in maintaining vigilance and ensuring compliance with all anti-ragging measures.

The session concluded with an interactive Q&A segment, where students engaged in discussions to voice their concerns and gain a deeper understanding of the issue. The Jaypee Youth Club played a crucial role in organising this session, facilitating conversations, and ensuring broad participation from students across various departments.

The event ended with a collective pledge by the administration, faculty, and students to uphold a ragging-free campus. As a follow-up to this session, the university has undertaken a review of its anti-ragging policies, increased monitoring in key areas, and planned further educational initiatives to sustain awareness. This session reinforced JUIT's dedication to providing a safe, inclusive, and supportive environment for all students.



16.2.8 Kalaripayattu Performance

Lights Up JUIT

In a celebration of India's ancient martial arts heritage, the Jaypee University of Information Technology (JUIT) hosted an enthralling performance of Kalaripayattu, a martial art that has flourished for centuries in Kerala. Organized through the collaborative efforts of the JYC Cultural and Dance Club, in association with SPIC MACAY, the event was held in the JUIT Auditorium and was a resounding success.

The program commenced promptly at 11:00 AM with a traditional lamp-lighting ceremony, graced by university dignitaries and the distinguished guests from Kerala. This symbolic lighting of the lamp set the tone for what would become a mesmerizing cultural experience.

Following the lamp-lighting, a warm and heartfelt welcoming note was delivered, which introduced the essence of the event, capturing the audience's attention by explaining the deep-rooted significance of Kalaripayattu. The phrase "MeyyKanavanam—Make the body an eye" was brought to life as the performers displayed incredible coordination, agility, and discipline in their martial arts act. The skill and precision of the troupe had the audience in awe as they performed extraordinary combat sequences, showcasing the martial art's deep spiritual and physical elements. After the exhilarating demonstration, the performers were introduced to the audience, with each member receiving a round of appreciative applause for their contribution to keeping this ancient art alive.

Vice Chancellor Dr. (Name) then delivered an inspiring speech, expressing his gratitude for the remarkable performance. He highlighted the significance of preserving cultural heritage in today's world and commended the efforts of the JYC Cultural and Dance Club, as well as SPIC MACAY, for making this event possible. The event also saw the felicitation of the renowned artist Mr. Rajiv and his talented troupe, honoring them for their invaluable efforts in promoting Kalaripayattu beyond the boundaries of Kerala. The felicitation was a gesture of the university's appreciation for their contribution to the cultural landscape of India.

To commemorate the occasion, a photo session followed, capturing moments with the performers, faculty members, and students, preserving the memories of this captivating event. The program concluded with a vote of thanks, in which the JYC Cultural and Dance Club coordinators extended their heartfelt gratitude to everyone involved. Special recognition was given to the members of the JYC Disciplinary Committee for their seamless management of the event, ensuring the audience-maintained decorum and respect throughout the performance.

The event was a resounding success, not only for the extraordinary display of Kalaripayattu but also as a testament to JUIT's commitment to fostering an appreciation for art and culture on campus. The credit for this successful cultural showcase rightfully belongs to the hardworking and passionate members of the JUIT Youth Club (JYC), whose efforts ensured that this event will be remembered by all who attended.



16.2.9 Semester Tournament at Jaypee University of Information Technology

The Semester Tournament at Jaypee University of Information Technology (JUIT) is one of the most anticipated events in the academic calendar, fostering a spirit of competition, sportsmanship, and unity among students. This year's tournament was a resounding success, thanks to the dedicated efforts of the JUIT Youth Club (JYC) and the Sports Club, who played crucial roles in organising and overseeing all the sporting activities. They ensured that everything ran smoothly, from scheduling the games to managing logistics and ensuring fair play. Their commitment allowed the tournament to progress without major hitches, creating an enjoyable and competitive environment for participants.

The tournament spanned a variety of sports, offering something for everyone, whether they were seasoned athletes or recreational players. The sports included individual events such as chess, athletics (marathon and sprint), powerlifting, shot-put, and discuss throw, as well as team-based sports like basketball, football, cricket, volleyball, table tennis, badminton, kabaddi, and more. Additionally, several e-sports, which have seen growing popularity, were also featured, including BGMI, CODM, Mortal Kombat 11, Valorant, and FIFA (FC 24).

The tournament witnessed fierce competition across all events, with participants showcasing their skills, determination, and teamwork. In chess, Abhimanyu Singla emerged victorious, showcasing excellent strategic play. Basketball (girls) saw the Hericanes, led by Ojaswi Singh Chauhan, claim the first position, while the Khedi Ballers, with standout player Shaurya Negi, dominated the boys' basketball event. Badminton (mix) was a closely contested game, but Dhakkad Smashers, with Shrey Dahiya shining as MVP, took home the win. In the badminton girls' category, Anushka Sharma emerged as the top player.

Team spirit was evident in cricket, where Phantompur, led by Samarth Sharma, outplayed their competition to secure the top spot. In football, the Weekend Players, spearheaded by Ankesh, proved to be the best on the field. In the intense kabaddi matches, The Warriors, captained by Daksh Raj, claimed the title. The popularity of e-sports was highlighted by the impressive performances in BGMI, where Saya XO dominated, while Team Assassins triumphed in CODM. In Valorant, Potato Aim Squad secured the win with an exceptional display of skill.

Athletics also drew much attention, with Ipshit Singh taking the first position in the marathon and Rahul Kumar excelling in the boys' sprint. For the girls' sprint, Priyanjali came out on top. Table tennis was another key highlight, with Dominators, led by PuroorvaMaitre, demonstrating remarkable coordination and teamwork. The volleyball (boys) team, Karasuno Maurya's, and volleyball (girls) team, Serves Up, both delivered thrilling matches that earned them top honours. In foosball, the team named Player 1 and 2 emerged victorious.

The strength-based events also saw a strong showing from students. In the discuss throw, Aatesh outperformed his competitors, while Pradyumn dominated the shot-put event. In the powerlifting categories, Arnav Sharma (under 75 kg), Aryan Dhiman (75-90 kg), and Aatesh Yadav (above 90 kg) all secured the first positions in their respective categories. In the e-sports categories, Javed Akhtar won the 2K WWE 23 event, while PragunDhaulta was the champion in Mortal Kombat 11, and VishibPartapSlathia took the first place in FIFA (FC 24).

Overall, the tournament was a tremendous success, with a healthy mix of traditional sports and modern e-sports, reflecting the evolving interests of the student body. The organisation and management by JYC and the Sports Club were exemplary, providing students with an opportunity to demonstrate their athletic skills while encouraging participation and healthy competition. The involvement of a diverse range of students across all events fostered camaraderie and campus spirit, making this year's semester tournament one of the most memorable to date. The closing ceremony of the Semester Tournament was a vibrant and celebratory affair, marking the culmination of weeks of intense competition. Distinguished faculty members and student leaders praised the efforts of both participants and organisers, with special awards and accolades presented to the top athletes and teams. The ceremony featured lively performances, adding to the festive atmosphere, and served as a fitting conclusion to an unforgettable event. The collective spirit of unity and sportsmanship was palpable, leaving students eagerly anticipating the next edition.



16.2.10 Participation in Thomso 2024

Our institution participated in a variety of events at IIT Roorkee's Thomso 2024, held from October 4-5, where students showcased their talents in literary, music, and theatre categories. In the literary event, Model United Nations (MUN), the Shield Committee, chaired by Abhinav Bajpai, engaged in discussions on the topic of "Dealing with Extraterrestrial Threats to Earth." Aditya Singh from our institution earned a Special Mention Award for his outstanding contribution. In the music and theatre categories, Yashaswi represented us in "Sargam (Antra)," a solo singing competition held on October 4, competing among 40-50 participants. Despite a strong performance, Yashaswi was unable to advance to the next round. Additionally, a team of nine students participated in the "Battle of Bands" on the same day, facing competition from 20-25 bands. While our team showcased their talent, they did not advance to the subsequent rounds, as only the top four bands were selected. Our institution's presence at Thomso 2024 was notable, with achievements in MUN and praiseworthy performances in music and theatre, providing valuable experience that enriched our students' skills and exposure in a competitive environment.





16.2.11 Parakram 2024: A Grand Success at JUIT

Jaypee University of Information Technology (JUIT) recently hosted its much-awaited annual sports fest, Parakram 2024, from 8th to 10th November. The event brought together students from various universities, transforming the campus into a vibrant hub of athletic energy and competitive spirit. This year's fest saw participation from over 350 JUIT students alone, along with 160+ enthusiastic athletes from Shoolini University, Chitkara University, Bahra University, Baddi University, and Maharaja Agrasen University. The event featured a wide array of sports, showcasing the remarkable talents of student athletes.

JYC: The Backbone Behind Parakram's Success

The success of Parakram 2024 was made possible by the relentless efforts of the JUIT Youth Club (JYC), particularly the Sports Club under JYC. The club members played a crucial role in organising and managing the event, ensuring it ran seamlessly from start to finish. Under the guidance of the dedicated faculty coordinators — Prof. Neena Jindal, Prof. Rajkumar, Prof. Sanjiv Kumar Tiwari, and Prof. Sudhir Kumar — JYC members worked tirelessly to coordinate schedules, set up venues, and manage logistics.

Athletics: Speed, Strength, and Endurance

The athletics segment saw stellar performances:

1. Long-Distance Race (Boys): First Place - JatinPatial (JUIT), Second Place - PurooravaMaitre (JUIT)
2. Sprint 100m (Boys): First Place - JatinPatial (JUIT), Second Place - Sushant Vohra (JUIT)
3. Sprint 200m (Girls): First Place - Parwati Gandhi (JUIT), Second Place - Priyanjali (JUIT)
4. Discus Throw: First Place - PradyumnVashisht (JUIT), Second Place - Shivansh (JUIT)
5. Shot Put (Girls): First Place - Priyanjali (JUIT), Second Place - Vidita (JUIT)

Powerlifting: A Display of Raw Strength

The powerlifting competition was one of the highlights, showcasing impressive feats of strength across various weight categories. Here are the results, along with the total weights lifted by each winner:

1. Under 66 kg:

First Place - Gaurav Thakur (Chitkara) lifted a total of 415 kg

Second Place - Chau SohantoLongkan (Bahra) with a total of 340 kg

2. Under 74 kg:

First Place - Arnav Sharma (Jaypee) lifted a total of 435 kg

Second Place - Ankesh Kumar (Chitkara) with a total of 390 kg

3. Under 83 kg:

First Place - Aryan Dhiman (Jaypee) with a total lift of 395 kg

Second Place - Abhishek Chauhan (Jaypee) lifting 370 kg

4. Under 93 kg:

First Place - Karan Singh (Chitkara) with a total of 480 kg

Second Place - Akshit Sharma (Baddi) with 425 kg

5. 93 kg+ Category:

First Place - Aatesh Yadav (Jaypee) lifted a total of 455 kg

6. Basketball: Court Battles**Boys' Basketball:**

Winner: JUIT

Runner-Up: ChitkaraBaddi

MVP: Shaurya Negi

Girls' Basketball:

Winner: JUIT

Runner-Up: Shoolini

MVP: Ojaswi S. Chauhan

7. Chess Competitions: Strategic Battles

Chess (Rapid): First Place - JUIT Team A with standout performances by Om Shree, Abhinav Manda, and Abhimanyu Singla

Chess (Blitz): First Place - JUIT Team A, once again showing their strategic superiority

8. Kabaddi: A Test of Teamwork and Agility. The kabaddi matches were thrilling, with intense competition:

First Place - JUIT Team A emerged victorious with key players like Mohit Sharma and Archit Chandel

Second Place - JUIT Team B with notable contributions from Raj and Ayush Malik

9. Badminton and Table Tennis: Precision and Focus

Badminton (Boys): First Place - ChitkaraBaddi, Second Place - JUIT A

Badminton (Girls): First Place - JUIT A (MVP: Ishita Verma), Second Place - JUIT B

Table Tennis (Boys): First Place - JUIT A

Table Tennis (Girls): First Place - JUIT A, Second Place - ChitkaraBaddi

10. Volleyball: High-Flying Action

Boys' Volleyball:

First Place - Maharaja Agrasen University

Second Place - Mamleeg

MVP: Arpan Gupta

11. Girls' Volleyball:

First Place - JUIT with a standout team featuring Bhini, Anushka, and Janifer

Second Place - Shoolini University

MVP: Palak

12. Football: The Beautiful Game.

The football matches were action-packed, with Shoolini University A emerging victorious:

First Place - Shoolini A with star players Bharat, Avi, and Mayank

Second Place - Chitkara University, bolstered by players like Dhruv Walia and Kritagya

Conclusion: Celebrating the Spirit of Sportsmanship

During the closing ceremony, Dr. R.K. Sharma, the esteemed Vice Chancellor of JUIT, shared words of encouragement: *"Events like Parakram are not just about competition but also about fostering camaraderie, discipline, and teamwork among young athletes. We are proud to see so many colleges participate with enthusiasm, and we hope this spirit of sportsmanship continues to grow stronger each year."*

These motivating words resonated with all the participants, inspiring them to carry forward the lessons of unity and perseverance beyond the sports field.

It saw winners being awarded medals, trophies, and certificates. The event concluded with a sense of accomplishment and pride, as participants, coaches, and volunteers celebrated their collective efforts.

"Parakram 2024 would not have been possible without the dedication of **JYC, the Sports Club, and our student volunteers,**" remarked one of the senior organisers. The overwhelming participation from students and colleges is a testament to the unifying power of sports.

As we bid farewell to another successful edition of Parakram, we look forward to even greater heights in **Parakram 2025**.



16.2.12 Report on JUIT's Participation in the All India University Basketball Championship 2024

Event Overview: The All India University Basketball Championship 2024 was hosted by Kurukshetra University, Kurukshetra, under the Directorate of Sports. The tournament took place from November 25 to November 30, 2024. Teams from various universities across the country competed in the event, which was organized into pools for the initial knockout rounds. JUIT was placed in Pool C, competing against several strong teams.

The championship was a platform for universities to showcase their talent and foster a spirit of sportsmanship among students. Each match was fiercely contested, reflecting the high level of competition.

JUIT Basketball Team Roster: The following players represented Jaypee University of Information Technology (JUIT) in the tournament:

1. Yahovardhan Singh Sisodiya (Captain) - Roll No: 211147 (4th Year)
2. Astik Tyagi (Vice-Captain) - Roll No: 211262 (4th Year)
3. Aditya Prabhakar - Roll No: 211476 (4th Year)
4. Jeetesh Saini - Roll No: 211436 (4th Year)
5. PradyumanVashisht - Roll No: 211127 (4th Year)
6. AyushPathania - Roll No: 231030094 (3rd Year)
7. Rijul Dhiman - Roll No: 221004051 (3rd Year)
8. Sambhav Thakur - Roll No: 221004001 (3rd Year)
9. Kshitij Rana - Roll No: 221003311 (3rd Year)
10. Akhilesh Mahajan - Roll No: 231033007 (2nd Year)
11. Mayil Sharma - Roll No: 231034008 (2nd Year)
12. Shaurya Negi - Roll No: 231030158 (2nd Year)

Coaching and Support Staff: The team was coached and mentored by:

1. Ms. Nisha Hooda (Sports Coach)
2. Mr. Paras Gautam (Sports Coach)

Their guidance and expertise played a vital role in preparing the team for the challenges of the tournament. The Sports Department also provided logistical and moral support to ensure the team's participation was seamless.

Performance: JUIT faced H.N.B. Garhwal University, Srinagar, in the first match of the knockout stage on November 26, 2024. Despite a commendable effort from the team, JUIT lost the match with a close margin, resulting in an early exit from the tournament. The match was part of Pool C, which featured strong competition from other universities such as Amity Punjab, C.S.J.M. Kanpur, and GADVASU Ludhiana.

While the loss was disappointing, the team's performance reflected dedication, teamwork, and determination. Several players exhibited impressive individual skills, and the team's cohesion improved over the course of their preparation and match.

Notable Highlights:

1. Team Spirit: The players demonstrated remarkable camaraderie both on and off the court. Their unity was evident during the game as they supported each other throughout.

2. Past Achievements: Last year, JUIT achieved a commendable position, ranking in the Top 12 among 64 colleges in the North Zone Inter-University Basketball Championship.

3. Parakram Victory: Earlier this year, the JUIT basketball team showcased their excellence by securing the first position in Parakram, JUIT's own sports fest. This achievement highlights the potential and capability of the team.

Lessons Learned: The tournament provided an opportunity for the team to assess its strengths and identify areas for improvement. Key takeaways include:

1. Enhancing physical fitness and endurance to maintain performance levels throughout matches.
2. Focusing on defensive strategies to counter stronger opponents.
2. Practicing game-specific scenarios to adapt better to high-pressure situations.

Remarks from the Coaches: Ms. Nisha Hooda and Mr. Paras Gautam praised the team for their hard work and commitment. They emphasized the importance of learning from the experience and using it as motivation to achieve greater success in upcoming tournaments. The coaches also noted the positive attitude of the players, which is crucial for long-term development.

Acknowledgments: The participation was made possible under the guidance and support of:

1. Brigadier (Retd.) R.K. Sharma (Registrar & Dean of Students)
2. Prof. (Dr.) Rajendra Kumar Sharma (Vice-Chancellor)

Their encouragement and belief in the team's potential were instrumental in facilitating the team's journey to the championship.

Conclusion: Participation in the All India University Basketball Championship 2024 was a valuable experience for the JUIT basketball team. Although the team did not advance past the first round, the tournament provided exposure to high-level competition and underscored the importance of preparation and perseverance. Moving forward, the team is determined to build on this experience and come back stronger in future tournaments. The

Sports Department extends its heartfelt gratitude to the players, coaches, and everyone involved in making this participation possible.



16.2.13 Republic Day 2025 Celebration at JUIT

Jaypee University of Information Technology (**JUIT**) celebrated the 76th Republic Day on January 26, 2025, with patriotic fervor. Organized by **JYC**, the event featured cultural performances, inspiring speeches, and a symbolic flag hoisting. The **NCC** cadets' disciplined march past reflected dedication, while a thought-provoking **NukkadNatak** on national integrity left a lasting impact. A vibrant dance performance showcased India's cultural diversity, reinforcing unity. Addressing the gathering, the Vice-Chancellor and Registrar emphasized youth's role in nation-building. The celebration fostered patriotism and responsibility, making it a memorable event. **JYC's** commendable efforts ensured a grand and meaningful tribute to the nation.



16.2.14 Report on JUIT's Success at Aarohan 2025

JUIT secured 5th position among 16 prestigious institutions at Aarohan 2025, IIT Ropar's Annual Sports Fest. Our teams demonstrated exceptional performances, with the Men's Volleyball team emerging as First Runner-Up, while both Men's and Women's Powerlifting teams secured Second Runner-Up positions. These achievements reflect the dedication and perseverance of our students. The JUIT Youth Club (JYC) congratulates all participants and expresses gratitude to the JUIT Administration for their unwavering support in facilitating this remarkable success.

Individual Achievements

1. **Bhavika Sood** – Powerlifting (Women, Open) – Silver Medal
2. **Sneha Kaur** – Powerlifting (Women, Under 66 Kg) – Gold Medal
3. **Tanishq Gupta** – Powerlifting (Men, Under 66 Kg) – Bronze Medal
4. **Abhishek Chauhan** – Powerlifting (Men, Under 83 Kg) – Bronze Medal
5. **Aatesh Yadav** – Powerlifting (Men, 93+ Kg) – Bronze Medal
6. **Ayush Rawat** – Athletics (5000m Run) – Bronze Medal
7. **Pradyumn Vashishth** – Shot Put (Open) – Silver Medal





16.2.15 Murious 19.0

English:

Murious 19.0, Technical, Movies, and Photography Club, JYC kicked off with electrifying energy on **February 28, 2025**, as the sky lit up with a breathtaking drone show and robot show, symbolizing the limitless possibilities of technology. The highlight of the inauguration was an inspiring talk by **Mr. Saurabh Jain, Founder of Fun2Do Labs and Director General at ADIF**, who captivated the audience with his wisdom. He urged students to not only chase Lakshmi (wealth) and Shakti (power) but to also embrace Saraswati (knowledge), as true success is built on learning and wisdom. His words struck a chord, reminding everyone that a strong foundation in knowledge paves the way for sustainable growth. With this thought-provoking message, the event set the perfect tone for an exciting lineup of competitions, workshops, and discussions ahead.

हिन्दी:

म्यूरियस 19.0, टेक्निकल, मूवीज़ और फ़ोटोग्राफ़ी क्लब, JYC की शुरुआत 28 फरवरी, 2025 को विद्युतीकरण ऊर्जा के साथ हुई, जब आकाश एक लुभावने ड्रोन शो और रोबोट शो से जगमगा उठा, जो प्रौद्योगिकी की असीमित संभावनाओं का प्रतीक था। उद्घाटन का मुख्य आकर्षण फन 2 डू लैब्स के संस्थापक और एडी आई एफ के महानिदेशक श्री सौरभ जैन की प्रेरक बातचीत थी, जिन्होंने अपनी बुद्धिमत्ता से दर्शकों को मंत्रमुग्ध कर दिया। उन्होंने छात्रों



से न केवल लक्ष्मी (धन) और शक्ति (शक्ति) का पीछा करने का आग्रह किया, बल्कि सरस्वती (ज्ञान) को भी अपनाने का आग्रह किया, क्योंकि सच्ची सफलता सीखने और ज्ञान पर आधारित है। उनके शब्दों ने मन को छू लिया और सभी को याद दिलाया कि ज्ञान की मजबूत नींव सतत विकास का मार्ग प्रशस्त करती है। इस विचारो तेजक संदेश के साथ, इस कार्यक्रम ने आगे की प्रतियोगिताओं, कार्यशालाओं और चर्चाओं की एक रोमांचक श्रृंखला के लिए एकदम सही माहौल तैयार किया।

English:

Murious 19.0 soared to life, with drones in flight,

A dazzling show of tech so bright.

Then came a speech, both wise and grand,

By Saurabh Jain, a guiding hand.

"Chase not just Lakshmi and Shakti alone,

Let Saraswati's wisdom be your own.

For wealth may fade and power decline,

But knowledge will forever shine."

His words lit minds like sparks in air,

Setting the stage for events so rare—

Workshops, contests, and talks so deep,

A festival of dreams, for all to keep!



हिन्दी:

म्यूरियस 19.0 ने भरी उड़ान, ड्रोन शो का था
अद्भुत गान।

फिर आई वाणी ज्ञान से भरी,

सौरभ जैन की बात थी जड़ी।

"सिर्फ लक्ष्मी-शक्ति को मत पूजो,

सरस्वती का दीप जलाओ, समझ बूझो।

धन खो सकता, सत्ता ढल जाएगी,



पर ज्ञान की जोत सदा जल जाएगी।"

इन शब्दों ने जोश बढ़ाया,

प्रतियोगिताओं का रंग जमाया।

कार्यशालाएँ, चर्चाएँ, सीख अपार,

सपनों का ये संगम शानदार!

16.2.16 Farewell Report – JUIT Batch of 2025

Jaypee University of Information Technology bid an emotional yet heartwarming farewell to the outgoing Batch of 2025. The event was marked by touching speeches, nostalgic memories, and heartfelt moments shared between teachers and students. Faculty members praised the graduating batch for their resilience, growth, and contributions, while students expressed gratitude for the support and guidance received. The atmosphere was filled with laughter, tears, and warm embraces as both sides wished each other well. With countless best wishes for future success, the farewell concluded on a positive and hopeful note, celebrating the strong bond of the JUIT family.

16.2.17 Le Fiestus 2025 – Annual Fest Report

Jaypee University of Information Technology hosted its much-anticipated annual fest *Le Fiestus* from April 25th to 27th, 2025. The three-day celebration was a dynamic blend of music, culture, and talent.

Day 1 began with a Saraswati Pooja, followed by engaging events like Antakshari, *JUIT's Got Latent*, and a mesmerizing cultural night. The evening lit up with performances by Anshika Pandey and DJ Tracer.

Day 2 featured the open mic event *Raabta*, Human Foosball, and high-energy musical acts by Ablaze, Danny, and DJ Suitup.

The fest concluded on Day 3 with laughter from stand-up comedian Appurv Gupta, a soulful performance by Nikhil D'Souza, and a high-octane closing set by DJ Young & Broke.

Le Fiestus 2025 was a spectacular showcase of student enthusiasm, creativity, and unforgettable performances.





JUIT Gears Up for Its Annual Fest – *Le Fiestus'25*

Jaypee University of Information Technology (JUIT), Solan, is all set to host its much-awaited annual cultural fest, **Le Fiestus'25**, scheduled from **April 25th to 27th, 2025**. Known for its vibrant energy and star-studded performances, the three-day festival promises an unforgettable experience for students, guests, and participants.

The fest will commence on **April 25th** with an acoustic performance by **Anshika Pandey**, followed by an electrifying set by **Tracer**, a multi-genre disc jockey who is expected to set the tone for the days to come.

The second day, **April 26th**, will feature a dynamic band performance by **ABLAZE**, accompanied by the engaging presence of **Danny**, performing as the sub-headliner artist. The night will close with a high-energy DJ session by **Tuhina Tripathi**, known for her open-format style that blends multiple genres seamlessly.

The grand finale on **April 27th** will begin with anchoring by **G.DSayal**, setting the stage for a power-packed evening. Acclaimed stand-up comedian **Appurv Gupta** will take over with his signature humor, followed by the soulful performance of **Nikhil D'Souza**, the fest's headline artist. The night will conclude with beats from **Young & Broke**, a prominent record producer bringing the festival to a sensational close.

Adding glamour to the fest, **actor Keshav Sadhna** will make a **special appearance** and will also serve as the **celebrity dance judge**, bringing his charm and expertise to the stage competitions.

With performances spanning music, comedy, and dance, **Le Fiestus'25** aims to celebrate youth culture, creativity, and community spirit. The organizing committee extends a warm welcome to all students, alumni, and media personnel to witness and be part of this cultural celebration.



16.2.18 Report on the First HR Conclave at JUIT – May 2, 2025

The Training & Placement Cell of **Jaypee University of Information Technology (JUIT)** successfully hosted its **first HR Conclave** on **May 2, 2025**, at the **JUIT Auditorium**. The event featured **two keynote sessions** and **two panel discussions**, bringing together an impressive lineup of HR professionals from top-tier organizations.

These industry leaders shared their experiences and insights on modern HR practices, recruitment strategies, and career development opportunities. For students, it was an invaluable platform to learn directly from decision-makers and potential future recruiters.

Event Schedule:

Time: 09:00 AM – 01:00 PM

Venue: JUIT Auditorium

Reporting Time: 08:50 AM (Biometric attendance mandatory)

Guest Speakers and Their Organizations

Name	Designation	Organization
Narinder Ahluwalia	Chief Operating Officer (COO)	Covalience
Debashish Ghosh	Chief Human Resources Officer (CHRO)	Berkadia
Teevrta Kaul	Head of HR	Net Solutions
Rishika Verma Vohra	Sr. Manager - Talent Acquisition	Independent Consultant (Past: Wipro)
Jahanvi Singh	HR Executive	EduVib Official
Anisha Raghav	Director – People & Culture	Edifecs
Sanjeev Shantkumar Doshi	Chief General Manager - HR	Rashtriya Chemicals & Fertilizers Ltd.
Karishma Sharma	Founder & Principal Consultant	Nyara HR Services Pvt. Ltd.
Ravneet Malik	Head – Campus Hiring & International Biz	Netsmartz
Akash Deep Sharma	HR Advisor / Consultant	Independent
Narender Sharma	Deputy General Manager - Talent Acquisition	Intercontinental Consultants & Technocrats Pvt. Ltd
Sanjay Kumar Sharma	HR Professional	Formerly with Central Government PSUs
Ritu Sharma	Director & Head – HR	Equinix India

Manisha Parmar	Associate Director – Talent Acquisition	KPMG India
Madhuri Sankhyan	HR Manager	Paymentus
Gaurav Singh	General Manager	Dalmia Bharat Limited

Conclusion:

The HR Conclave 2025 was a resounding success, enabling students to bridge the gap between academia and industry. The disciplined participation of students and the insightful sessions by HR leaders contributed immensely to the event's overall impact. JUIT looks forward to making this an annual tradition of industry-academia collaboration.

17. TRAINING & PLACEMENT

Training and Placement (T&P) is an important activity of the University. T&P cell is mainly responsible for arranging practical training of the Undergraduate students to meet their degree requirement and to facilitate the placements of undergraduate & postgraduates' students in suitable jobs in the industry and various private & public sector organizations.

To facilitate placement T&P cell invites senior executives of major industries/organizations to give talk to the students at Campus which helps them acquire better knowledge about the organization prior to campus interviews.

The Placement summary for last three years is attached at **Appendix H**

18. FINANCIAL STATUS

The Audited Balance Sheet of the FY 2024-25 is attached as **Appendix I**

GOVERNING COUNCIL**1. Pro-Chancellor**

Shri Manoj Gaur
Executive Chairman
Jaiprakash Associates Ltd.

Chairman

2. Chief Executive Officer

Shri Manu Bhaskar Gaur
Chief Executive Officer
JUIT, Wagnaghat

Vice Chairman

3. Two Members of Trust nominated by the Pro-Chancellor

a) Shri Sunil Sharma
Vice Chairman
Jaiprakash Associates Ltd.

Member

b) Shri Sunny Gaur
Managing Director (Cement)
Jaiprakash Associates Ltd.

Member

4. Two Representatives of the Collaborating Universities

a) Prof Rajeev Ahuja
Director
IIT Ropar, Punjab.

Member

b) Shri Kanishk Sharma
Suresh Gyan Vihar University
Jaipur, Rajasthan

Member

5. Three Distinguished Academicians/Professionals nominated by the Chancellor in consultation with the Pro-Chancellor

a) Prof. S.C. Saxena
Pro- Chancellor
JIIT, Noida

Member

b) Padma Shri (Dr) Satish Kumar
Ex-Director
NIT, Kurukshetra, Haryana

Member

c) Prof. Gautam Barua
Ex Director, IIT Guwahati
Director IIIT Guwahati, Assam

Member

6. Two Experts Representing Other Disciplines such as Finance, Law and Management nominated by the Pro-Chancellor

- | | | |
|----|--|--------|
| a) | Sh. Harish K Vaid
Advisor, JAL
Sector-128, Noida | Member |
| b) | Sh. Pankaj Gaur
Managing Director
Jaiprakash Associates Ltd. | Member |

7. Vice Chancellor of the University

- | | |
|-----------------------------------|--------|
| Prof. (Dr.) Rajendra Kumar Sharma | Member |
|-----------------------------------|--------|

8. Two Deans of the University by Rotation

- | | | |
|----|--|--------|
| a) | Prof. Ashok Kumar Gupta
Dean (Academics & Research) | Member |
| b) | Vacant | |

9. Three Secretaries of Government of Himachal Pradesh

- | | | |
|----|--|--------|
| a) | Secretary (IT), Govt. of HP | Member |
| b) | Secretary (Education), Govt. of HP | Member |
| c) | Secretary (Technical Education), Govt. of HP | Member |

10. Three Representatives of the Industry Nominated by the Pro-Chancellor

- | | | |
|----|--|--------|
| a) | Sh. Alok Gaur
Jt. Managing Director.
KFCL, Kanpur | Member |
| b) | Sh. D.S. Ahuja
Director,
KFCL Kanpur | Member |
| c) | Dr Dinesh Kumar Likhi
Independent Director
JPVL, New Delhi | Member |

11. Non-Member Secretary

Brigadier Raj Kumar Sharma, SM (Retd)
Registrar & Dean of Students,
JUIT, Wagnaghat

EXECUTIVE COUNCIL

1. **The Vice Chancellor of the University** **Chairman**
Prof. (Dr.) Rajendra Kumar Sharma
2. **Two Members of Governing Council nominated by the Pro-Chancellor**
 - a) Sh. Sunil Sharma Member
Vice Chairman
Jaiprakash Associates Ltd.
 - b) Sh. Manu Bhaskar Gaur Member
CEO
JUIT, Waknaghat
3. **One Dean of the University**
Prof. Ashok Kumar Gupta Member
Dean (Academics & Research)
4. **One Academician of repute nominated by the Pro-Chancellor**
Prof. S.C. Saxena Member
Pro-Chancellor
Jaypee Institute of Information Technology (JIIT)
Noida
5. **Special Invitee**
Bro Jerome Ellens
Community Leader (St. Joseph Academy, Dehradun)
6. **Non- Member Secretary**
Maj Gen Rakesh Bassi, SM (Retd)
Registrar & Dean of Students

ACADEMIC COUNCIL OF THE UNIVERSITY

- | | |
|--|-----------------|
| 1. The Vice Chancellor of the University - | Chairman |
| Prof. (Dr.) Rajendra Kumar Sharma | |
| 2. Two Professors other than Heads of Departments by Rotation and by Seniority | |
| a) Prof. (Dr.) Sunil Kumar Khah – Controller of Examination | |
| b) Prof. (Dr.) Vineet Sharma - Physics & Materials Science | |
| 3. Two Distinguished Academicians to be nominated by Pro- Chancellor | |
| a) Padma Shri (Dr.) Satish Kumar
Ex-Director
NIT Kurukshetra | Member |
| b) Prof. Lalit Kumar Awasthi
Vice Chancellor,
Sardar Patel University, Mandi-HP | Member, |
| 4. Two Industry Professionals to be nominated by the Pro-Chancellor | |
| a) Sh. Sunil Sharma
Vice Chairman
Jaiprakash Associates Ltd. | Member |
| b) Shri Manu Bhaskar Gaur
Chief Executive Officer
JUIT, Wagnaghat | Member |
| 5. One Member from amongst the Heads of other Institution of the Trust | |
| Prof. S.C. Saxena
Vice Chancellor
Jaypee Institute of Information Technology (JIIT), Noida | Member |
| 6. The Deans of all Faculty of the University | |
| a) Prof. Ashok Kumar Gupta
Dean (Academics & Research) | Member |

7. Heads of the Departments/Centres of the University

- a) Prof. (Dr.) P.B. Barman, HOD, Department of Physics & Materials Science
- b) Prof. (Dr.) Sudhir Kumar, HOD, Department of BT&BI
- c) Prof. (Dr.) Ashish Kumar, HOD, Department of Civil Engineering
- d) Prof. (Dr.) Vivek Sehgal, HOD, Department of CSE/IT
- e) Prof. (Dr.) Rajiv Kumar, HOD, Department of ECE
- f) Prof. (Dr.) Rakesh Kumar Bajaj, HOD, Department of Mathematics
- g) Prof. (Dr.) Amit Srivastava, HOD, Department of HSS

8. Non-Member Secretary

Brigadier RK Sharma, SM (Retd)
Registrar & Dean of Students

FINANCE COMMITTEE

- 1. The Vice Chancellor of the University** **Chairman**
Prof. (Dr.) Rajendra Kumar Sharma
- 2. One Nominee of the Pro-Chancellor**
Sh. Sunil Sharma **Member**
Vice Chairman
Jaiprakash Associates Ltd
- 3. One Nominee of the Governing Council**
Shri Manu Bhaskar Gaur **Member**
Chief Executive Officer
JUIT, Waknaghat
- 4. One Dean (by rotation) on the basis of Seniority**
Prof. Ashok Kumar Gupta **Member**
Dean (Academics & Research)
- 5. Non-Member Secretary**
The Finance Officer of the University
Sh. Hemant Vyas
Chief Finance Officer

DETAILS OF LAND

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY				
Waknaghat Solan (H.P.)				
Summary (Plinth Area)				
Sl. No.	Particulars	Area (In Sqft)	Area (In Sqm)	Total No. of Floor
1	Institution and administrative area			
	Academic Block -3 lvl	4764.47	442.63	1 Floor
	Academic Block -2 lvl	8600.22	798.98	1 Floor
	Academic Block -1 lvl	13977.38	1298.53	1 Floor
	Academic Block 0 lvl	27019.65	2510.19	1 Floor
	Academic Block +1 lvl	33297.36	3093.40	1 Floor
	Academic Block +2 lvl	30880.52	2868.87	1 Floor
	Academic Block +3 lvl	24832.98	2307.04	1 Floor
	Academic Block +4 lvl	11693.36	1086.34	1 Floor
	Auditorium & Stage	14256.92	1324.50	1 Floor
	Animal House Lab & Store	3322.09	308.63	2 Floor
	Civil Deptt.	9438.41	876.85	
	Civil Lab	4971.35	461.85	3 Floor
	G.TOTAL	187054.71	17377.81	
2	Faculty housing			
	Faculty Block A Type	19245.71	1787.97	9
	Faculty Block B Type	0.00	0	
	B01	13255.11	1231.43	8+Mumty
	B02	14565.41	1353.16	8+Mumty
	B03	13251.13	1231.06	8+Mumty
	B04	14565.36	1353.16	8+Mumty
	Faculty Block C Type	0.00	0	
	C01	11556.66	1073.64	8+Mumty
	C02	11622.54	1079.76	8+Mumty
	C03	10926.21	1015.07	7+Mumty
	Guest House	15366.58	1427.59	4 Floor
	E Type Faculty (A Block)	0.00		
	Ground Floor	714.46	66.40	
	First Floor	714.08	66.34	
	Typical Floor	5050.47	469.20	4 Floor
	E Type Faculty (B Block)	0.00		
	Ground Floor	714.73	66.40	1 Floor
	Typical Floor	3849.21	357.60	3 Floor

	D Type Faculty (A Block)	0.00		10 Floor
	Ground Floor	727.22	67.56	1 Floor
	First Floor	870.05	80.83	1 Floor
	Typical Floor	9696.21	900.8	8+ Mumty
	D Type Faculty (B Block)	0.00		
	Ground Floor	592.02	55	
	First Floor	835.29	77.6	
	Typical Floor	4848.11	450.4	4 Floor
	Typical Floor	5059.94	470.08	4 +Mumty
	Total	158026.50	14681.05	
3	Student housing (HOSTEL)			
	H-1	13014.11	1209.04	8+Mumty
	H-2	12471.28	1158.61	7+Mumty
	H-3	6726.75	624.93	5+Mumty
	H-4	14282.11	1326.84	8+Mumty
	H-5	22802.46	2118.40	12+Mumty
	H-6	12406.69	1152.61	8
	H-7	11240.09	1044.23	7+Mumty
	H-8	9868.97	916.85	6+Mumty
	H-9	9813.65	911.71	6+Mumty
	H-10	9987.70	927.88	6+Mumty
	H-11	14220.97	1321.16	8+Mumty
	Girls Hostel 12A	23580.69	2190.70	10+Mumty
	Girls Hostel 12B	18501.70	1718.85	9+Mumty
	Girls Hostel 12C	20548.91	1909.04	9+Mumty
	Girls Hostel 12D	17740.58	1648.14	9+Mumty
	H-14A	9318.29	865.69	9
	H-14B	14020.54	1302.54	8+Mumty
	H-14C	24259.37	2253.75	11
	H-14D	20015.66	1859.50	10+Mumty
	H-15A	19727.83	1832.76	11
	H-15B	14655.29	1361.51	8+Mumty
	H-15C	18464.03	1715.35	10
	H-15D	16259.45	1510.54	8+Mumty
	Student Lounge	1427.63	132.63	2
	TOTAL	355354.73	33013.26	

4	Dormitory (For supporting staff/Worker)			
	Worker Dormitory-1			
	Basement	3101.35	288.23	1 Floor
	Ground Floor	6179.72	574.11	1 Floor
	First Floor	4359.74	405.03	1 Floor
	Second Floor	3769.23	350.17	1 Floor
	Worker Dormitory-2 (F Block)	7246.32	673.20	4 Floor
	TOTAL	24656.37	2290.74	
5	Miscellaneous Structures			
	Annapurna	21707.11	2016.64	1Floor
	Uploading Bay (Annapurna)	2035.90	189.14	2 Floor
	Telephone Exchange	9830.87	913.31	5 Floor
	ESS	21525.42	1999.76	5 Floor
	Plant Room / Green Room	6366.48	591.46	1 Floor
	Mandir	3030.66	281.66	1 Floor
	Dispensary	2711.09	251.96	3 Floor
	S.T.P	995.84	92.55	1 Floor
	Store	3805.70	353.69	1 Floor
	Security Room	188.21	17.49	1 Floor
	Garbage Room	676.37	62.86	2 Floor
	Laundry+store	2300.70	213.82	1 Floor
	Guard Post	272.87	25.36	1 Floor
	TOTAL	75447.23	7009.70	
	G Total	800539.56	74372.55	

Sl. No.	Particulars	Area (In Sqft)	Area (In Sqm)	Total No. of Floor
	Faculty housing			
1	Faculty Block A Type	19238.51	1787.97	9
2	Faculty Block B Type	0	0	
	B01	13250.22	1231.43	8+Mumty
	B02	14560.00	1353.16	8+Mumty
	B03	13246.25	1231.06	8+Mumty
	B04	14559.96	1353.16	8+Mumty
3	Faculty Block C Type	0	0	
	C01	11552.77	1073.64	8+Mumty
	C02	11618.23	1079.76	8+Mumty
	C03	10922.13	1015.07	7+Mumty
	TOTAL AREA	108948.07	10125.25	

DETAILS OF TEACHING STAFF

S.No.	Name	Designation	Qualifications
1	Rajendra Kumar Sharma	Vice Chancellor	PhD
ELECTRONICS & COMMUNICATION ENGINEERING			
2	Rajiv Kumar	Professor & HOD	PhD
3	Shruti Jain	Professor & Dean Associate	PhD
4	Harsh Sohal	Associate Professor	PhD
5	EmjeePuthooran	Associate Professor	PhD
6	Shweta Pandit	Associate Professor	PhD
7	Vikas Baghel	Assistant Professor (SG)	PhD
8	Salman Raju Talluri	Assistant Professor (SG)	PhD
9	Nishant Jain	Assistant Professor (SG)	PhD
10	Alok Kumar	Assistant Professor (SG)	PhD
11	Pardeep Garg	Assistant Professor (SG)	PhD
12	Pragya Gupta	Assistant Professor (GR-II)	M.Tech
13	MunishSood	Assistant Professor (GR-II)	M. Tech
COMPUTER SCIENCE & ENGINEERING/INFORMATION TECHNOLOGY			
14	Vivek Sehgal	Professor & HOD	PhD
15	Pardeep Kumar	Professor	PhD
16	Pradeep Kumar Gupta	Professor	PhD
17	Ravindara Bhatt	Associate Professor	PhD
18	Ekta Gandotra	Associate Professor	PhD
19	Amit Kumar	Associate Professor	PhD
20	Hari Singh	Assistant Professor (SG)	PhD
21	Ruchi Verma	Assistant Professor (SG)	PhD
22	Amol Vasudeva	Assistant Professor (SG)	PhD
23	Aman Sharma	Assistant Professor (SG)	PhD
24	Rakesh Kanji	Assistant Professor (SG)	PhD
25	Deepak Gupta	Assistant Professor (SG)	PhD
26	Nancy Singla	Assistant Professor (SG)	PhD
27	Kushal Kanwar	Assistant Professor (SG)	PhD
28	Pankaj Dhiman	Assistant Professor (SG)	PhD
29	Anita	Assistant Professor (SG)	PhD
30	Nishant Sharma	Assistant Professor (SG)	PhD
31	Monika	Assistant Professor (SG)	PhD
32	Arvind Kumar	Assistant Professor (SG)	PhD
33	Praveen Modi	Assistant Professor (SG)	PhD
34	Ramesh	Assistant Professor (SG)	PhD

35	Meghna Dhalaria	Assistant Professor (SG)	PhD
36	Prateek	Assistant Professor (GR-II)	M.Tech
37	Faisal Firdos	Assistant Professor (GR-I)	M.Tech
38	Aayush Sharma	Assistant Professor (GR-I)	M.Tech
39	Seema Rani	Assistant Professor (GR-I)	M.Tech
40	Saurav Kumar Singh	Assistant Professor (GR-I)	M.Tech
41	Akshay Kumar	Assistant Professor (GR-I)	M.Tech
42	Palak Aar	Assistant Professor (GR-I)	M.Tech
43	Gaurav Negi	Assistant Professor (GR-I)	M.Tech
44	Vani Sharma	Assistant Professor (GR-I)	M.Tech
45	Mr. Suraj Kumar	Assistant Professor (GR-I)	M.Tech
46	Mr. Sandeep Kumar Patel	Assistant Professor (GR-I)	M.Tech
47	Nitka	Assistant Professor (Cont.)	M.Tech
48	Kuntal Sarkar	Assistant Professor (Cont.)	M.Tech
49	Ravi Sharma	Assistant Professor (Cont.)	PhD
DEPARTMENT OF BIOTECHNOLOGY / BIOINFORMATICS			
50	Sudhir Syal	Professor & Dean (Research & Internationalization)	PhD
51	Jata Shankar	Professor & HOD	PhD
52	Tiratha Raj Singh	Professor	PhD
53	Anil Kant	Professor	PhD
54	Rahul Shrivastava	Professor	PhD
55	Hemant Sood	Professor	PhD
56	Gopal Singh Bisht	Professor	PhD
57	Poonam Sharma	Associate Professor	PhD
58	JitendraaVashistt	Associate Professor	PhD
59	Garlapati Vijay Kumar	Associate Professor	PhD
60	Udaybanu M	Associate Professor	PhD
61	Saurabh Bansal	Associate Professor	PhD
62	Ashok Kumar Nadda	Assistant Professor (SG)	PhD
63	Abhishek Chaudhary	Assistant Professor (SG)	PhD
64	Raj Kumar	Assistant Professor (SG)	PhD
65	Shikha Mittal	Assistant Professor (GR-I)	PhD
66	Tyson	Assistant Professor (GR-I)	MVSC
DEPRTEMENT OF CIVIL ENGINEERING			
67	Ashok Kumar Gupta	Professor & Dean (Academics)	PhD
68	Ashish Kumar	Professor & HOD	PhD
69	Rishi Rana	Assistant Professor (SG)	PhD
70	Amardeep	Assistant Professor (SG)	PhD
71	Saurav	Assistant Professor (SG)	PhD
72	Tanmay Gupta	Assistant Professor (SG)	PhD
73	Niraj Singh Parihar	Assistant Professor (SG)	PhD

74	Chandrapal Gautam	Assistant Professor (GR-II)	M. Tech
75	Kaushal Kumar	Assistant Professor (GR-II)	PhD
76	Akash Bhardwaj	Assistant Professor (GR-II)	M.Tech
DEPARTMENT OF PHYSICS & MATERIALS SCIENCES			
77	Partha Bir Barman	Professor & HOD	PhD
78	Sunil Kumar Khah	Professor & CoE & Dean (Accreditation)	PhD
79	Vineet Sharma	Professor	PhD
80	Ragini Raj Singh	Associate Professor	PhD
81	Surajit Kumar Hazra	Associate Professor	PhD
82	Sanjiv Kumar Tiwari	Associate Professor	PhD
83	Santu Baidya	Assistant Professor (GR-I)	PhD
84	Haresh A. Raval	Assistant Professor (GR-II)	PhD
DEPARTMENT OF MATHEMATICS			
85	Rakesh Kumar Bajaj	Professor & HOD	PhD
86	R S Raja Durai	Professor	PhD
87	Neel Kanth	Associate Professor	PhD
88	Pradeep Kumar Pandey	Assistant Professor (SG)	PhD
89	Saurabh Srivastava	Assistant Professor (SG)	PhD
90	Bhupendra Kumar Pathak	Assistant Professor (SG)	PhD
91	Mandeep Singh	Assistant Professor (SG)	PhD
92	Sriti Thakur	Assistant Professor (SG)	PhD
DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES			
93	Amit Srivastava	Professor & HOD	PhD
94	Anupriya Kaur	Professor	PhD
95	Tanu Sharma	Associate Professor	PhD
96	Triambica Gautam	Assistant Professor (GR-II)	MBA, UGC Net
97	Neena Jindal	Assistant Professor (GR-II)	PhD
98	Deler Singh	Assistant Professor (SG)	PhD
99	Ranjith Kallyani	Assistant Professor (GR-II)	PhD
100	Bilal Khan	Assistant Professor (GR-II)	PhD
101	Atul Kumar Singh	Assistant Professor (GR-II)	PhD

RESULTS OF PAST FOUR YEARS

The University was set up in the year 2002 and eighteen batches have graduated, the results of the last four batches are being furnished below:

RESUSLTS BTECH 2018-22 – BTECH

CSE	222	219	98.64%
IT	25	24	96%
ECE	21	20	95.23%
CE	53	49	92.45%
BT	40	39	97.5%
BI	6	6	100%

RESUSLTS BTECH 2019-23 – BTECH

CSE	237	228	96.2%
IT	50	47	94.0%
ECE	43	41	95.3%
CE	34	30	88.2%
BT	28	27	96.4%
BI	07	07	100%

RESUSLTS BTECH 2020-24 – BTECH

CSE	324	317	97.8%
IT	54	49	90.7%
ECE	17	17	100%
CE	29	28	96.5%
BT	14	12	85.7%
BI	04	03	75%

RESUSLTS BTECH 2021-25 – BTECH

CSE	299	284	94.9%
IT	35	30	85.7%
ECE	06	05	83.3%
CE	15	15	100%
BT	13	12	92.3%
BI	09	08	88.8%
ECM	11	09	81.8%

RESULTS OF BATCH 2022-2024 – MTECH

Internet of Things	02	02	100%
Data Science	03	03	100%
Biotechnology	02	02	100%
Structural Engineering	07	06	85.7%

RESULTS OF BATCH 2023-2025 – MTECH

Internet of Things	03	03	100%
Construction Management	01	01	100%
Biotechnology	05	05	100%
Data Science	02	02	100%

RESULTS OF BATCH 2022-2024 – MSc

Biotechnology	20	20	100%
Microbiology	04	04	100%

RESULTS OF BATCH 2023-2025 – MSc

Biotechnology	09	09	100%
Microbiology	03	03	100%
Physics	01	01	100%

TRAINING & PLACEMENT DATA**For 2021 Batch**

- Highest Salary –30 Lacs by Amazon
- 2nd Highest Salary – 17.5 Lacs by Amazon (Non-Tech)

PLACEMENT STATUS :JUIT Solan 2017-21 as on 28/June/2022					
Branch	Total Eligible Participating Students	No. of Absolute Offers	% of Absolute Offers	No. of Total Offers	% of Total Offers
CSE	124	124	100%	214	173%
ECE	45	45	100%	59	131%
IT	26	24	92%	41	158%
BT/BI	19	15	79%	17	89%
CIVIL	15	8	53%	9	60%
Total	229	216	94%	340	148%

For 2022 Batch

On Campus	Off Campus
Highest Salary –32 Lacs by Amazon	Highest Salary –50 Lacs by Microsoft
2nd Highest Salary – 31.5 Lacs by Amazon	2nd Highest Salary – 45 Lacs by Adobe

PLACEMENT STATUS :JUIT Solan 2018-22 as on 28/Jun/2022					
Branch	Total Eligible participating Students	No. of Absolute Offers	% of Absolute Offers	No. of Total Offers	% of Total Offers
CSE	201	193	96%	381	190%
ECE	16	13	81%	22	138%
IT	23	23	100%	43	187%
BT/BI	33	27	82%	32	96%
CIVIL	28	17	61%	18	64%
Total	301	273	91%	496	164%

For 2023 Batch

- i. Highest Salary – 44.14 Lacs by Amazon
- ii. 2nd Highest Salary – 20 Lacs by Fantaclaus

PLACEMENT STATUS :JUIT Solan 2019-23 as on 05/June/2023					
Branch	Total Eligible participating Students	No. of Absolute Offers	% of Absolute Offers	No. of Total Offers	% of Total Offers
CSE	217	203	94%	366	169%
ECE	37	28	76%	49	132%
IT	40	34	85%	45	113%
BT/BI	24	17	71%	26	108%
CIVIL	18	7	39%	8	44%
Total	336	289	86%	494	147%

For 2024 Batch

- i. Highest Salary – 21.15 Lacs by ZS Associates
- ii. 2nd Highest Salary – 20 Lacs by Amazon

PLACEMENT STATUS :JUIT Solan 2020-24 as on 28/July/2024					
Branch	Total Eligible Participating Students	No. of Absolute Offers	% of Absolute Offers	No. of Total Offers	% of Total Offers
CSE	257	225	88%	248	96%
ECE	12	12	100%	12	100%
IT	39	34	87%	36	92%
BT/BI	10	10	100%	11	110%
CIVIL	07	04	57%	04	57%
Total	325	285	88%	311	96%

For 2025 Batch

- i. Highest Salary – 50 Lacs by Google
- ii. 2nd Highest Salary – 46.38 Lacs by Amazon

PLACEMENT STATUS :JUIT Solan 2021-25 as on 28/August/2025					
Branch	Total Eligible Participating Students	No. of Absolute Offers	% of Absolute Offers	No. of Total Offers	% of Total Offers
CSE	212	204	96%	248	117%
ECE	4	4	100%	4	100%
ECM	10	10	100%	13	130%
IT	23	22	96%	26	113%
BT/BI	14	10	71%	12	86%
CIVIL	11	11	100%	13	118%
Total	274	261	95%	316	115%

**BALANCE SHEET FOR
THE
FINANCIAL YEAR 2024-25**

DASS GUPTA & ASSOCIATES
Chartered Accountants

B-4, NDG Center, Connaught Park, New Delhi - 110049
Phone: 46111009 (30 lines) FAX: 011-4611 1099 E-mail: admin@dassgupta.com

INDEPENDENT AUDITORS' REPORT

TO,
THE MEMBERS OF THE GOVERNING BODY
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
P.O., WARRAGHAT, THE KANDAGHAT
DISTRICT SOLAN-173234, HIMACHAL PRADESH

REPORT ON THE FINANCIAL STATEMENTS

WE HAVE AUDITED THE ATTACHED BALANCE SHEET OF JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY (HERE IN AFTER REFERRED AS UNIVERSITY), AS AT 31ST MARCH 2025 AND THE ANNEXED INCOME & EXPENDITURE ACCOUNT FOR THE YEAR THEN ENDED, AND A SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND OTHER EXPLANATORY INFORMATION.

MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL STATEMENTS

MANAGEMENT IS RESPONSIBLE FOR THE PREPARATION OF THESE FINANCIAL STATEMENTS THAT GIVE A TRUE AND FAIR VIEW OF THE FINANCIAL POSITION AND FINANCIAL PERFORMANCE OF THE UNIVERSITY IN ACCORDANCE WITH THE INCOME TAX ACT 1961 ("THE ACT"). THIS RESPONSIBILITY ALSO INCLUDES MAINTENANCE OF ADEQUATE ACCOUNTING RECORDS IN ACCORDANCE WITH THE PROVISIONS OF THE ACT FOR SAFEGUARDING THE ASSETS OF THE UNIVERSITY AND FOR PREVENTING AND DETECTING FRAUDS AND OTHER IRREGULARITIES; SELECTION AND APPLICATION OF APPROPRIATE ACCOUNTING POLICIES; MAKING JUDGMENTS IN THE ESTIMATES THAT ARE REASONABLE; AND DESIGN,



DASS GUPTA & ASSOCIATES
Chartered Accountants

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IMPLEMENTATION AND MAINTENANCE OF ADEQUATE INTERNAL FINANCIAL CONTROLS, THAT WERE OPERATING EFFECTIVELY FOR ENSURING THE ACCURACY AND COMPLETENESS OF THE ACCOUNTING RECORDS, RELEVANT TO THE PREPARATION AND PRESENTATION OF THE FINANCIAL STATEMENTS THAT GIVE A TRUE AND FAIR VIEW AND ARE FREE FROM MATERIAL MISSTATEMENT, WHETHER DUE TO FRAUD OR ERROR.

AUDITOR'S RESPONSIBILITY

OUR RESPONSIBILITY IS TO EXPRESS AN OPINION ON THESE FINANCIAL STATEMENTS BASED ON OUR AUDIT. WE CONDUCTED OUR AUDIT IN ACCORDANCE WITH THE STANDARDS ON AUDITING ISSUED BY THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA. THOSE STANDARDS REQUIRE THAT WE COMPLY WITH ETHICAL REQUIREMENTS AND PLAN AND PERFORM THE AUDIT TO OBTAIN REASONABLE ASSURANCE ABOUT WHETHER THE FINANCIAL STATEMENTS ARE FREE FROM MATERIAL MISSTATEMENT.

AN AUDIT INVOLVES PERFORMING PROCEDURES TO OBTAIN AUDIT EVIDENCE ABOUT THE AMOUNTS AND DISCLOSURES IN THE FINANCIAL STATEMENTS. THE PROCEDURES SELECTED DEPEND ON THE AUDITOR'S JUDGMENT, INCLUDING THE ASSESSMENT OF THE RISKS OF MATERIAL MISSTATEMENT OF THE FINANCIAL STATEMENTS, WHETHER DUE TO FRAUD OR ERROR. IN MAKING THOSE RISK ASSESSMENTS, THE AUDITOR CONSIDERS INTERNAL CONTROL RELEVANT TO THE UNIVERSITY PREPARATION AND FAIR PRESENTATION OF THE FINANCIAL STATEMENTS IN ORDER TO DESIGN AUDIT PROCEDURES THAT ARE APPROPRIATE IN THE CIRCUMSTANCES, BUT NOT FOR THE PURPOSE OF EXPRESSING AN OPINION ON THE EFFECTIVENESS OF THE ENTITY'S INTERNAL CONTROL. AN AUDIT ALSO EVALUATING THE



DASS GUPTA & ASSOCIATES

Chartered Accountants

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APPROPRIATENESS OF ACCOUNTING POLICIES USED AND THE REASONABLENESS OF THE ACCOUNTING ESTIMATES MADE BY MANAGEMENT, AS WELL AS EVALUATING THE OVERALL PRESENTATION OF THE FINANCIAL STATEMENTS.

WE BELIEVE THAT THE AUDIT EVIDENCE WE HAVE OBTAINED IS SUFFICIENT AND APPROPRIATE TO PROVIDE A BASIS FOR OUR AUDIT OPINION.

OPINION

A. IN OUR OPINION AND TO THE BEST OF OUR INFORMATION AND ACCORDING TO THE EXPLANATIONS GIVEN TO US, THE SAID ACCOUNTS WITH SIGNIFICANT ACCOUNTING POLICIES AND OTHER NOTES THEREON GIVE A TRUE AND FAIR VIEW:

- (i) IN THE CASE OF BALANCE SHEET, OF THE STATE OF AFFAIRS OF THE UNIVERSITY AS AT 31ST MARCH 2025
- AND
- (ii) IN THE CASE OF INCOME & EXPENDITURE ACCOUNT, OF THE SURPLUS FOR THE YEAR ENDED ON THAT DATE.

REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

B. WE HAVE OBTAINED ALL THE INFORMATION AND EXPLANATIONS, WHICH TO THE BEST OF OUR KNOWLEDGE AND BELIEF WERE NECESSARY FOR THE PURPOSE OF OUR AUDIT.

C. IN OUR OPINION PROPER BOOKS OF ACCOUNT AS REQUIRED BY LAW HAVE BEEN KEPT BY THE UNIVERSITY SO FAR AS APPEARS FROM OUR EXAMINATION OF THOSE BOOKS;



DASS GUPTA & ASSOCIATES

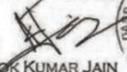
Chartered Accountants

B-4, NDG Center, Gulmohar Park, New Delhi - 110049
Phones: 48111000 (30 lines) FAX: 011-4811 1009 E-mail: admin@dassgupta.com

D. THE BALANCE SHEET AND STATEMENT OF INCOME & EXPENDITURE ACCOUNT DEALT WITH BY THIS REPORT ARE IN AGREEMENT WITH THE BOOKS OF ACCOUNT;

E. IN OUR OPINION THE BALANCE SHEET AND INCOME & EXPENDITURE ACCOUNT DEALT WITH BY THIS REPORT COMPLY WITH THE APPLICABLE ACCOUNTING STANDARDS SUBJECT TO OUR COMMENTS IN SIGNIFICANT ACCOUNTING POLICIES AND NOTES ANNEXED TO AND FORMING PART OF THE ACCOUNTS.

FOR AND ON BEHALF OF
DASS GUPTA & ASSOCIATES
CHARTERED ACCOUNTANTS
REGISTRATION NO: 00011284


CA ASHOK KUMAR JAIN
(PARTNER)
MEMBERSHIP No. 090563
UDIN: 25090563BMOSFM8724

DATE: 22.09.2025
PLACE: NEW DELHI

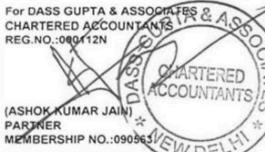


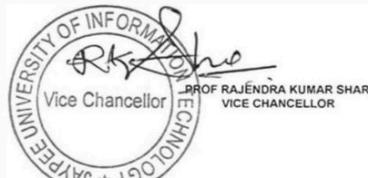
**Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)**

Balance Sheet as on 31.03.2025

Amount (₹) 31.03.2024	LIABILITIES	Schedule	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024	ASSETS	Schedule	Amount (₹) 31.03.2025
5,00,00,000	CORPUS FUND		5,00,00,000	74,68,88,108	Property, Plant & Equipments and Intangible Assets		79,79,79,925
1,01,55,000	For University		1,01,55,000	5,15,28,817	Opening Balance		13,21,57,385
6,01,55,000	For Research Promotion (UBSK)		6,01,55,000	(4,37,000)	Addition during the year		(2,65,000)
					Disposed off during the current period		
27,51,76,779	GENERAL FUND		41,73,37,517	79,79,79,925	Gross Block	"A"	92,98,72,310
14,21,60,738	Opening Balance		15,69,84,850	62,45,66,372	Less : up to date Depreciation & amortization		66,52,65,911
41,73,37,517	Add - Surplus brought from Income & Expenditure A/C		57,43,22,367	17,34,13,553	Net Block		26,46,06,399
				26,38,072	CAPITAL WORK IN PROGRESS	"B"	1,08,48,471
54,21,151	RESEARCH PROJECT'S FUND		44,62,590		CURRENT ASSETS, LOANS & ADVANCES		
27,71,098	Opening Balance		21,54,333		Cash & Bank Balance	"C"	52,08,26,571
(37,29,659)	Add : Received during the year		(30,09,427)	43,38,44,612	Advances and Receivables in Cash or in Kind	"D"	9,30,46,115
	Less : Expenses during the year		(14,48,163)	10,95,65,579	Prepaid Expenses	"E"	3,71,61,608
44,62,590	Less : Refund during the year		21,59,333	82,89,290	Security Deposits	"F"	28,28,997
				88,45,622	Stock- in- Hand	"G"	1,12,01,710
1,58,33,189	CURRENT LIABILITIES & PROVISIONS	"H"	2,41,54,714				
21,75,85,265	Sundry Creditors	"I"	24,77,57,837				
	Other Liabilities						
1,86,04,950	CAUTION MONEY		2,36,41,619				
1,08,29,500	Opening Balance		1,13,80,000				
(57,92,831)	Add : Received during the year		(30,51,000)				
	Less : Refund during the year		3,19,70,619				
2,36,41,619	(Due for payment during next one year Rs.38,20,000/-)						
73,90,15,180	Total Liabilities		94,05,19,870	73,90,15,180	Total Assets		94,05,19,870

Significant Accounting policies and notes on accounts as per Schedule 'O' forming part of Balance Sheet.

For DASS GUPTA & ASSOCIATES
CHARTERED ACCOUNTANTS
REG.NO.:090412N

(ASHOK KUMAR JAIN)
PARTNER
MEMBERSHIP NO.:090563
NEW DELHI
PLACE:-New Delhi
DATE :22.09.2025


Vice Chancellor
PROF. RAJENDRA KUMAR SHARMA
VICE CHANCELLOR

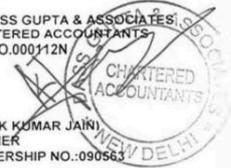

REGISTRAR
Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)
BRIG. RAJ KUMAR SHARMA, SM (RETD)
REGISTRAR


University of Information Technology
Chief Finance Officer
HEMANT VYAS
CHIEF FINANCE OFFICER

Jaypee University of Information Technology
Waknaghat, Distt. Solan, H.P.
Income & Expenditure Account for the year ended on 31.03.2025

Amount (₹) 31.03.2024	EXPENDITURE	Schedule	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024	INCOME	Schedule	Amount (₹) 31.03.2025
27,14,14,823	Education Expenses	"J"	33,92,51,485	69,72,21,803	Collection from Students	"L"	76,66,33,216
27,16,70,099	Salary & Allowances	"K"	29,04,49,471	1,79,85,078	Interest Income	"M"	2,64,65,604
3,15,24,052	Depreciation & Amortization	"A"	4,06,99,539	15,62,830	Receipt Incidental to Education	"N"	17,86,525
				-	Donation Received		3,25,00,000
57,46,08,974	Total Expenditure's		67,04,00,495	71,67,69,711	Total Income's		82,73,85,345
14,21,60,738	Surplus Transferred to General Fund A/C.		15,69,84,850				
71,67,69,711	TOTAL		82,73,85,345	71,67,69,711	TOTAL		82,73,85,345

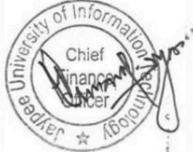
Significant Accounting policies and notes on accounts as per Schedule 'O' forming part of Income & Expenditure Account.
As per our report of even date attached

For DASS GUPTA & ASSOCIATES,
CHARTERED ACCOUNTANTS
REG.NO.000112N

(ASHOK KUMAR JAIN)
PARTNER
MEMBERSHIP NO.:090563

PLACE:- New Delhi
DATE :19.09.25


Vice Chancellor
PROF RAJENDRA KUMAR SHARMA
VICE CHANCELLOR


REGISTRAR
Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)
BRIG RAJ KUMAR SHARMA.SM (RETDI)
REGISTRAR


Chief Finance Officer
HEMANT VYAS
CHIEF FINANCE OFFICER

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2023-24
Details of Property, Plant & Equipments and Intangible Assets as on 31.03.2025**

SCHEDULE : "A"

Block of Assets	Rate of Dep.	Op. Balance as on 01.04.2024	GROSS BLOCK				DEPRECIATION				Amount (₹) NET BLOCK	
			Addition during the year		Disposed off during the year	As on 31.03.2025	Op. Balance as on 01.04.2024	For the Year	Up to 31.03.2025	As on 31.03.2024	As on 31.03.2025	
			180 Days or more	Less than 180 Days								
Property Plant & Equipments												
Leasehold Land	0%		40,02,000	-		40,02,000						40,02,000
Buildings	10%	19,52,60,611	1,76,36,072	7,48,14,171		24,77,10,854	9,87,81,299	1,11,52,247	10,99,33,546	5,64,79,312		13,77,77,308
Library Books	15%	6,95,45,101	87,084	1,51,721		6,97,83,906	6,10,16,262	13,03,768	6,23,20,030	85,28,839		74,63,876
Electronic Lab Equipments	15%	2,00,85,220		58,410		2,01,43,630	1,79,13,537	3,30,133	1,82,43,670	21,71,683		18,99,960
Bio Informatics Lab Equipments	15%	2,97,08,306	27,140			2,97,35,446	2,50,37,564	7,04,682	2,57,42,746	46,70,742		39,93,200
Physics Lab Equipments	15%	1,17,54,125	62,068	2,38,320		1,20,54,513	1,02,11,225	2,58,619	1,04,69,844	15,42,900		15,84,669
Computer Lab Equipments	40%	1692,84,028	1,48,40,742			18,41,24,770	15,36,15,470	1,22,03,720	16,58,19,190	1,56,68,558		1,83,05,580
Imported Bio Lab Equipments	15%	2,20,31,080				2,20,31,080	2,05,00,671	2,29,561	2,07,30,232	15,30,409		13,00,848
Imported Electronic Lab Equipments	15%	33,58,810				33,58,810	32,58,298	15,077	32,73,375	1,00,512		85,435
Imported Computer Lab Equipments	40%	7,37,191				7,37,191	7,37,190		7,37,190	1		1
Imported Office Equipments	15%	87,905				87,905	82,357	832	83,189	5,548		4,716
Civil Lab Equipments	15%	1,32,77,680				1,32,77,680	1,07,76,066	3,75,132	1,11,51,218	25,01014		21,25,862
Office Equipments	15%	2,8280,662	26,20,578	31,7,634		3,12,18,874	1,88,05,822	18,23,135	2,07,28,957	93,74,840		1,04,89,917
Miscellaneous Assets	15%	59,76,152	47,020	2,34,247		62,57,419	47,54,528	2,07,861	49,62,393	12,21,624		12,95,026
Gymnasium Equipments	15%	72,67,641		6,72,870		79,40,511	46,28,996	4,46,263	50,75,258	26,38,645		28,65,253
Furniture & Fixtures	10%	6,00,41,308	20,53,395			6,20,94,703	4,66,36,685	15,45,802	4,81,82,487	1,34,04,623		1,39,12,216
Vehicles	15%	3,03,32,950				3,00,67,950	3,06,06,889	14,19,159	2,30,26,048	97,26,061		60,41,902
Imported Kitchen Equipments	15%	2,78,308				2,78,308	2,57,642	3,100	2,60,742	30,666		17,566
Kitchen Equipments	15%	93,53,686	8,85,290			1,02,38,976	71,05,448	4,70,029	75,75,477	22,48,238		26,63,499
Plant & Machinery	15%	9,40,88,297	55,74,884	65,28,403		10,61,91,584	6,28,01,104	60,18,942	6,88,20,046	3,12,87,193		3,73,71,538
Electrical Equipments	15%	1,18,66,574	9,77,421	3,27,915		1,31,71,910	89,14,242	6,14,057	95,28,299	29,52,332		36,43,611
Mechanical Lab Equipments	15%	27,37,255				27,37,255	24,49,812	4,31,16	24,92,928	3,81,443		2,44,327
Research Equipments	15%	3,44,03,214				3,44,03,214	2,92,56,544	7,72,001	3,00,28,545	51,46,670		43,74,669
Total(A)		77,97,55,504	4,88,13,694	8,33,43,691	2,65,000	91,16,47,889	60,82,47,651	3,99,37,289	64,81,84,910	17,15,07,853		26,34,62,979
Intangible Assets												
Software-Computer	40%	50,59,459				50,59,459	45,28,980	2,12,192	47,41,172	5,30,479		3,18,287
Software-Math	40%	3,24,350				3,24,350	3,22,347	841	3,23,088	2,103		1,262
Software-Civil	40%	25,59,478				25,59,478	22,99,548	1,03,972	24,03,520	2,59,930		1,55,958
Software-Language Lab	40%	11,37,938				11,37,938	11,22,016	6,369	11,28,385	15,922		9,932
Software-Biotech Lab	40%	19,44,888				19,44,888	19,18,599	10,516	19,29,115	26,289		7,75,773
Software-Electronics Lab	40%	60,23,795				60,23,795	49,71,562	4,20,893	53,92,455	10,52,233		16,31,340
Software-Library	40%	2,73,000				2,73,000	2,70,290	1,084	2,71,374	2,710		1,626
Software-Physics Lab	40%	4,35,123				4,35,123	4,29,535	2,235	4,31,770	5,588		3,353
Software-PO Lab	40%	4,66,390				4,66,390	4,55,944	4,178	4,60,122	10,446		6,268
Total(B)		1,82,34,421				1,82,34,421	1,63,18,721	7,62,280	1,70,81,001	19,05,700		11,43,420
Grand TOTAL (A+B)		79,79,79,925	4,88,13,694	8,33,43,691	2,65,000	92,98,72,310	62,45,66,372	4,06,99,539	66,52,65,911	17,34,13,553		26,46,06,399
PREVIOUS YEAR		78,68,88,108	1,90,08,220	3,25,20,597	4,37,000	79,79,79,925	59,30,42,321	3,15,24,052	62,45,66,372	15,38,45,877		17,34,13,553



Signature
University of Information Technology
Prof. Dr. M. S. S. (H.P.)



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
Capital Work in Progress

Particulars	Opening Balance as on 01.04.2024	Addition during the Year	Capitalized during the Year	Closing Balance as on 31.03.2025
Software Campus Lynx	25,00,000	11,00,000	-	36,00,000
Water Tank	-	9,64,124	9,64,124	-
Digital Classroom		72,48,471		72,48,471
Guest House	1,38,072	-	1,38,072	-
Gross Total	26,38,072	93,12,595	11,02,196	1,08,48,471
Previous Year	54,29,937	99,74,091	1,27,65,956	26,38,072



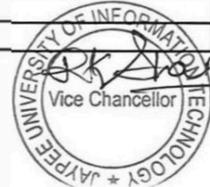
ACKNOWLEDGE
 REGISTRAR,
 Jaypee University of Information Technology
 Waknaghat, Distt. Solan (H.P.)



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
Cash and Bank Balance

SCHEDULE - "C"

S.No	Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
I	Cash in Hand	50,018	85,895
II	Balance with Schedule Banks		
	<u>In Current Account :</u>		
	- State Bank of India, Wagnaghat	63,301	1,57,729
	- Punjab National Bank, Shimla	7,36,880	11,78,237
	- Punjab National Bank, Solan	12,148	14,701
	- Punjab National Bank, Wagnaghat	1,65,34,752	76,90,566
	- Yes Bank Ltd., Noida	59,782	59,782
	- Cheque / DD in hand	78,127	1,44,612
	<u>Balance with Schedule Banks</u>		
	<u>In Saving Account :</u>		
	- Punjab National Bank, Wagnaghat A/c No. 15239	4,182	4,070
	- Punjab National Bank, Wagnaghat A/c No. 14461	35,35,362	39,16,093
III	Fixed Deposits with Banks (Maturity Over 3 Months)		
	- Punjab National Bank, Shimla	3,72,500	3,72,500
	- Punjab National Bank, Wagnaghat	45,89,00,000	38,10,00,000
	(Includes Fixed Deposit for Corpus Fund Rs.5 Crore.(Previous year Rs.5 Crore))		
	- Interest Accrued but not due	97,32,789	1,02,93,447
IV	Earmarked Deposits with Banks		
	- Canara Bank UBSK, Noida (C/A)	83,238	83,238
	- Canara Bank UBSK, Noida (FDR)	2,77,13,745	2,77,13,745
	- Interest Accrued on FDR	29,49,746	11,29,996
	TOTAL	52 08 26 571	43 38 44 612



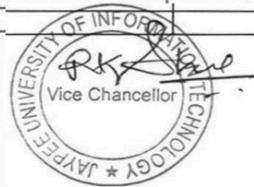
Reekhanwari
 REG. STR. No. 10/2013
 Jaypee University of Information Technology
 Wagnaghat, Distt. Solan, H.P.



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
ADVANCES AND RECEIVABLES IN CASH OR IN KIND

SCHEDULE - "D"

Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
Advances To:-		
- Staff	23,30,001	2,47,017
- Suppliers/Agencies/Capital Goods/Property	7,34,56,227	8,97,61,936
- Other Educational Trust	-	-
Receivables From:-		
- Students	6,59,210	26,27,000
- Interest Accured on HPSEB Deposit	2,46,759	2,46,759
- Income Tax Department as on 31.03.24	38,72,718	40,64,712
- Assessment Year 2010-11	Rs. 6,61,804	
- Assessment Year 2011-12	Rs. 97,434	
- Assessment Year 2013-14	Rs. 1,09,376	
- Assessment Year 2015-16	Rs. 3,71,907	
- Assessment Year 2025-26	Rs. 26,32,197	
- Excise & Taxation Department (VAT)	38,17,348	38,17,348
- Income Tax Department Appeal	86,37,753	86,37,753
- Receivable of TCS	26,099	1,63,054
TOTAL	9,30,46,115	10,95,65,579



(Signature)
 REGISTRAR
 Jaypee University of Information Technology
 Wazirpur Road, New Delhi



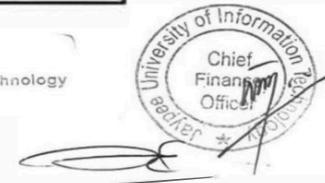
**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
PREPAID EXPENSES**

SCHEDULE - "E"

Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
AMC for Equipments	67,51,471	50,62,723
Technical & IT Support service	2,71,52,613	-
Insurance	4,82,483	2,98,967
Subscription for Journals & Digital Library	27,75,041	29,27,600
TOTAL PREPAID EXPENSES	3,71,61,608	82,89,290



(Signature)
REGISTRAR,
Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)



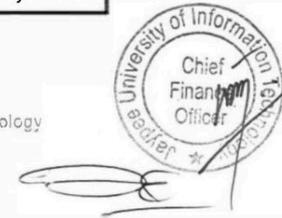
**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
SECURITY DEPOSITS**

SCHEDULE - "F"

Particulars	Amount (₹)	Amount (₹)
	31.03.2025	31.03.2024
For Electricity -HPESBL	26,50,825	22,40,280
For LPG	1,19,800	1,19,800
For Labour Office Solan	12,000	12,000
For Telephones	11,372	11,372
For Deep Fridge	5,000	5,000
For SUPDT of Post Office	30,000	30,000
TOTAL SECURITY DEPOSITS	28,28,997	24,18,452



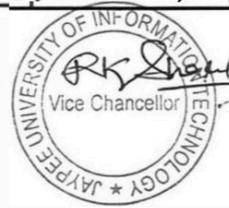
Neelamini
REGISTRAR,
Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)



**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
STOCK-IN-HAND**

SCHEDULE - "G"

Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
Annapurna Grocery & Eatables	51,48,466	35,14,738
Housekeeping Items	69,698	-
Medicines	97,090	57,748
Diesel	10,60,033	9,14,415
General Hardware Items	23,17,353	18,29,128
Electrical Items	22,66,759	22,42,283
Spares for Vehicles	1,91,051	1,81,552
Inventory Material in Transit	51,260	1,05,758
TOTAL STOCK IN HAND	1,12,01,710	88,45,622



Neelam
REGISTRAR,
Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)



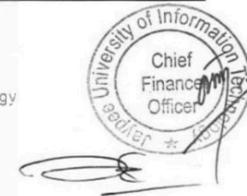
**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
SUNDRY CREDITORS**

SCHEDULE - "H"

Particulars	Amount (₹)	Amount (₹)
	31.03.2025	31.03.2023
- For Goods Supplied	1,00,62,622	58,27,290
- For Services Rendered	1,36,93,011	93,05,312
- For Retention	3,99,081	7,00,587
TOTAL SUNDRY CREDITORS	2,41,54,714	1,58,33,189



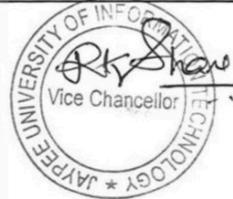
Reshmi
Reshmi
Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)



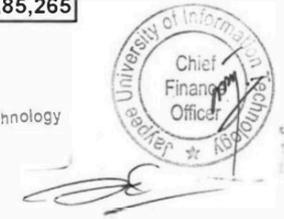
**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
OTHER LIABILITIES**

SCHEDULE - "I"

Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
For Statutory Liabilities	6,97,74,400	6,27,64,992
Uncleared Cheques	16,67,751	11,74,945
Fees Received in Advance	14,50,91,500	12,77,65,351
JYC Students Fund	18,34,257	18,25,726
T.D.S. Payable	29,65,202	35,46,456
Salary & Allowances Payable	1,74,58,032	1,55,61,497
Expenses Payable	89,66,695	49,46,298
TOTAL OTHER LIABILITIES	24,77,57,837	21,75,85,265



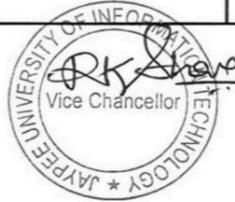
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 Jaypee University of Information Technology
 Wanknaghat, Distt. Solan (H.P.)



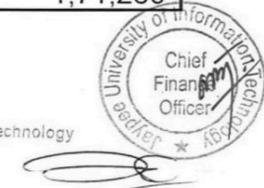
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
EDUCATION EXPENSES

SCHEDULE - "J"

Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
Admission Exps. including Advertisement	1,36,22,843	1,36,51,122
Audit Fee	5,26,000	3,54,000
Conference & Seminar Expenses	28,12,289	33,41,231
Convocation Expenses	21,81,742	75,033
Dispensary Expenses	40,21,175	54,04,554
E-Journals & Periodicals	45,64,992	30,43,830
Electricity Expenses	2,35,06,456	2,05,59,883
Grocery & Eatables Items Consumed	7,11,49,745	5,88,69,052
Honorarium to Faculty & Remuneration of Visiting Faculty	7,96,758	6,87,765
Institute Promotional Expenses	1,21,36,194	27,43,722
Insurance Expenses	9,23,115	3,70,050
Internet Charges	15,33,409	16,14,621
Laboratory, Software & Research Innovation Expenses	62,95,998	46,47,663
Laundry Expenses	36,00,991	34,94,128
Lease Rent	23,796	23,796
Legal & Professional Charges	2,63,438	6,55,305
Messing Staff Expenses	2,41,70,652	2,13,82,008
Misc. Expenses	10,89,817	4,82,274
Technical & IT Support service	3,56,10,790	1,32,51,343
Placement Expenses	4,88,600	46,219
Postage & Telegram	1,58,131	1,24,797
Printing & Stationery	17,92,102	20,75,201
Recruitment Expenses	1,76,749	1,71,260



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 REGISTRAR,
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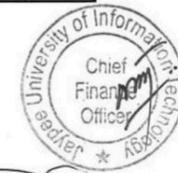


SCHEDULE - "J" (Continued)

Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
Scholarship to Students	1,73,63,751	67,58,701
Security Expenses	2,78,48,109	2,53,11,819
Staff Welfare	27,92,665	26,82,323
Students Welfare and Activity Expenses	47,03,052	15,52,603
Telephone Expenses	5,89,686	5,30,605
Travelling & Conveyance	16,65,463	8,11,861
Water Expenses	96,53,332	96,78,024
Repair & Maintenance Expenses		
- Civil Maintenance	56,05,254	57,03,030
- Hostel Maintenance	1,24,75,308	1,72,15,841
- Equipment & Machinery & Electrical	63,59,604	61,68,987
- Furniture & Fixture	11,27,356	16,05,611
- Horticulture Exps.	43,32,649	39,64,448
- House Keeping	2,64,67,226	2,56,49,456
- Others	21,95,610	26,03,898
- Vehicles	44,69,313	37,12,589
- Water Supply Scheme	1,57,326	3,96,170
TOTAL EDUCATION EXPENSES	33,92,51,485	27,14,14,823



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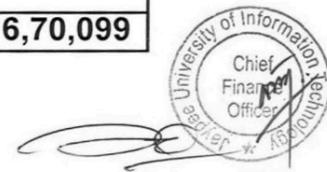
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
SALARY & ALLOWANCES

SCHEDULE - "K"

Particulars	Amount (₹) 31.03.2025	Amount (₹) 31.03.2024
<u>Teaching Staff :</u>		
Salary	11,13,83,445	10,73,03,178
Conveyance Allowance	69,50,972	71,28,392
H.R.A.	60,23,196	58,39,695
Medical Allowance	44,60,749	43,99,424
Leave Travel Assistance	44,95,404	43,29,965
Contribution to Provident Fund	1,34,64,223	1,32,82,913
Provision for Gratuity	67,82,809	62,48,067
Other Allowances	5,07,15,504	5,03,26,863
Sub - Total (i)	20,42,76,302	19,88,58,497
<u>Non-Teaching Staff :</u>		
Salary	5,21,86,279	4,52,28,356
Conveyance Allowance	22,99,371	21,44,509
H.R.A.	52,80,334	32,69,924
Medical Reimbursement	19,02,838	15,07,918
Leave Travel Assistance	18,55,631	14,96,567
Contribution to Provident Fund & ESI	56,08,699	48,52,479
Provision for Gratuity	36,84,914	26,83,348
Other Allowances	1,33,55,103	1,16,28,501
Sub - Total (ii)	8,61,73,169	7,28,11,602
TOTAL SALARY & ALLOWANCES (i+ii)	29,04,49,471	27,16,70,099



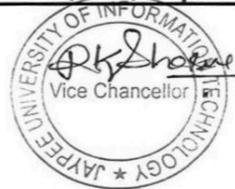
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 Jaypee University of Information Technology,
 Waknaghat, Distt. Solan (H.P.)



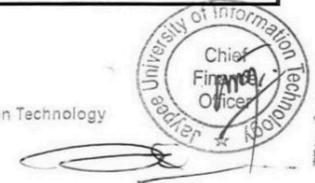
**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
COLLECTIONS FROM STUDENTS**

SCHEDULE - "L"

Particulars	Amount (₹)	Amount (₹)
	31.03.2025	31.03.2024
Fee From Students:		
Tuition Fee	47,47,17,302	41,77,78,143
Hostel Fee	24,79,56,989	23,92,68,050
Sub Total :(i)	72,26,74,291	65,70,46,193
Other Collection:-		
Sundry Charges	50,99,202	47,44,740
Admission Form /Admission Charges	1,99,16,492	1,80,46,688
Mess & Other Charges	1,89,43,231	1,73,84,182
Sub Total :(ii)	4,39,58,925	4,01,75,610
TOTAL COLLECTIONS FROM STUDENTS(i+ii)	76,66,33,216	69,72,21,803



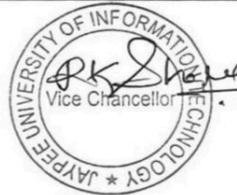
Anshu Chauhan
REGISTRAR,
Jaypee University of Information Technology
Waknaghat, Distt. Solan (H.P.)



**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
INTEREST INCOME**

SCHEDULE - "M"

Particulars	Amount (₹)	Amount (₹)
	31.03.2025	31.03.2024
Interest from Fixed Deposits		
- Punjab National Bank - Shimla	15,761	15,805
- Punjab National Bank - Waknaghat	2,41,38,626	1,59,51,759
- Canara Bank-UBSK	20,21,944	17,67,221
Interest from Saving Bank		
- Punjab National Bank Saving -Waknaghat	1,07,228	1,01,253
Others		
- Interest received on Income Tax refund	1,82,045	-
- Interest received on HPSEB Security	-	1,49,040
TOTAL INTEREST RECEIVED	2,64,65,604	1,79,85,078



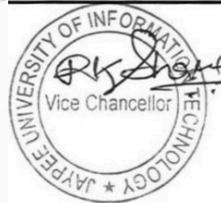
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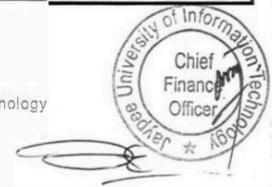
**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
FINANCIAL YEAR 2024-25
RECEIPT INCIDENTAL TO EDUCATION**

SCHEDULE - "N"

Particulars	Amount (₹)	Amount (₹)
	31.03.2025	31.03.2024
Receipt of Research & Development	2,87,000	3,00,000
Notice Pay Recovery from Employee's	11,69,634	9,82,604
Overhead Charges for Research Projects	1,32,379	1,40,376
Award Income	-	1,39,850
Sundry Balance Written Off	1,97,512	-
TOTAL OTHER INCOME	17,86,525	15,62,830



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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
WAKNAGHAT, SOLAN, HIMACHAL PRADESH

FINANCIAL YEAR 2024-25

SCHEDULE – "O": SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON
ACCOUNTS FORMING PART OF ACCOUNTS.

I. BACK GROUND

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, HAVING HEAD QUARTER AT WAKNAGHAT, HIMACHAL PRADESH IS A BODY CORPORATE BY THE NAME AFORE SAID, ESTABLISHED AND INCORPORATED UNDER SECTION 3 OF JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY ACT NO. 14 OF 2002 (AS ASSENTED TO BY THE GOVERNOR ON 22ND MAY, 2002) AND NOTIFIED U/SEC 10(23C) AND 80G OF THE INCOME TAX ACT, 1961. THE UNIVERSITY CONTINUE TO RUN ON "NOT FOR PROFIT" BASIS TO OFFER TECHNICAL EDUCATION OF THE HIGH STANDARDS BY TEACHING, RESEARCH, TRAINING AND EXTENSION ACTIVITIES. THE UNIVERSITY HAS ESTABLISHED THE "UNNAT BHARAT SHODH KOSH" FOR CARRYING OUT THE RESEARCH ACTIVITIES INVOLVING STUDENTS, FACULTY MEMBERS AS WELL AS INDUSTRY.

II. SIGNIFICANT ACCOUNTING POLICIES

A) GENERAL

THE ACCOUNTS HAVE BEEN PREPARED UNDER MERCANTILE SYSTEM OF ACCOUNTING AS PER HISTORICAL CONVENTION TO MEET WITH THE REQUIREMENTS OF CLAUSE 20 (1) AND (2) OF ACT NO. 14 OF 2002 OF JUIT ACT AND THE REQUIREMENTS OF THE INCOME TAX ACT 1961 AND RECOGNIZED ACCOUNTING POLICIES AND PRACTICES INCLUDING THE ACCOUNTING STANDARDS ISSUED BY THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA TO THE



EXTENT APPLICABLE. EXCEPT OTHERWISE STATED. ACCOUNTING POLICIES NOT SPECIFICALLY REFERRED TO OTHERWISE BE CONSISTENT AND IN CONSONANCE WITH GENERALLY ACCEPTED ACCOUNTING POLICIES.

B) USE OF ESTIMATES:

THE PRESENTATION OF FINANCIAL STATEMENTS IN CONFORMITY WITH THE GENERALLY ACCEPTED ACCOUNTING PRINCIPLES REQUIRES ESTIMATES AND ASSUMPTIONS TO BE MADE THAT AFFECT THE REPORTED AMOUNT OF ASSETS AND LIABILITIES ON THE DATE OF THE FINANCIAL STATEMENTS AND THE REPORTED AMOUNT OF REVENUES AND EXPENSES DURING THE REPORTING PERIOD. DIFFERENCE BETWEEN ACTUAL RESULT AND ESTIMATES ARE RECOGNIZED IN THE PERIOD IN WHICH THE RESULTS ARE KNOWN/ MATERIALIZED.

C) PROPERTY, PLANT & EQUIPEMENT'S AND INTANGIBLE ASSETS:

PROPERTY, PLANT & EQUIPEMENT'S AND INTANGIBLE ASSETS ARE STATED AT COST OF ACQUISITION INCLUSIVE OF FREIGHT AND OTHER INCIDENTAL EXPENSES.

D) DEPRECIATIONAND AMORTIZATION

DEPRECIATION AND AMORTIZATION ON PROPERTY, PLANT & EQUIPEMENT'S AND ON INTANGIBLE ASSETS RESPECTIVELYHAS BEEN PROVIDED ON WRITTEN DOWN VALUE AS PER THE CLASSIFICATION AND ON THE BASIS OF PROVISIONS OF INCOME TAX ACT, 1961.

E) INVENTORY: INVENTORY OF CONSUMABLES LIKE GROCERY& EATABLES,STATIONARY, MEDICINES, LABORATORY CONSUMABLES,STORES &SPARE ARE VALUED AT COST OR NET REALIZABLE VALLE WHICHEVER IS LESS. INVENTORY OF DIESEL IS VALUED AT YEARLY WEIGHTED AVERAGE BASIS.

F) CLAIMS

CLAIMS LIKE INTEREST ON INCOME TAX REFUND, INSURANCE CLAIMSETC. ARE ACCOUNTED FOR ON RECEIPTS BASIS.



E) REVENUE:

- A) TUITION AND HOSTEL FEES COLLECTED FROM STUDENTS FOR A SEMESTER HAS BEEN PRORATED OVER THE PERIOD OF SEMESTER. OTHER CHARGES RECOVERED FROM STUDENTS HAVE BEEN RECOGNIZED IN THE YEAR OF RECEIPT.
- B) INTEREST INCOME IS RECOGNIZED ON A TIME PROPORTION BASIS TAKING INTO THE ACCOUNT THE AMOUNT OUTSTANDING AND THE RATE APPLICABLE WHEN NO SIGNIFICANT UNCERTAINTY AS TO MEASURABILITY OR COLLECTABILITY EXISTS.
- C) INTEREST ON REFUNDS FROM GOVERNMENT AUTHORITIES ARE ACCOUNTED FOR ON ACCEPTANCE BASIS DUE TO SIGNIFICANT UNCERTAINTY AS TO MEASURABILITY AND COLLECTABILITY.

F) BORROWING COST: BORROWING COST INCURRED DURING CONSTRUCTION PERIOD IS DIRECTLY CHARGED TO PROFIT & LOSS A/C.

G) EMPLOYEE BENEFITS:

- SHORT TERM EMPLOYEE BENEFITS ARE RECOGNIZED AS AN EXPENSE AT THE UNDISCOUNTED AMOUNT IN INCOME & EXPENDITURE ACCOUNT OF THE YEAR IN WHICH THE RELATED SERVICE IS RENDERED.
- POST EMPLOYMENT AND OTHER LONG TERM EMPLOYEE BENEFITS ARE RECOGNIZED AS AN EXPENSE IN THE INCOME & EXPENDITURE ACCOUNT FOR THE YEAR IN WHICH THE EMPLOYEE HAS RENDERED SERVICES. THE EXPENSE IS RECOGNIZED AT THE PRESENT VALUE OF THE AMOUNT PAYABLE DETERMINED USING ACTUARIAL VALUATION TECHNIQUES. ACTUARIAL GAINS AND LOSSES IN RESPECT OF POST EMPLOYMENT AND OTHER LONG TERM BENEFITS ARE CHARGED TO INCOME AND EXPENDITURE ACCOUNT.



I) FOREIGN CURRENCY TRANSECTIONS:

TRANSACTIONS IN FOREIGN CURRENCY LIKE FEES RECEIVED IN FOREIGN CURRENCY ARE RECORDED AT THE EXCHANGE RATE PREVAILING ON THE DATE OF TRANSACTION. AMOUNT PAYABLE AND RECEIVABLE IN FOREIGN CURRENCY AS AT THE BALANCE SHEET DATE ARE REINSTATED AT THE APPLICABLE EXCHANGE RATES PREVAILING ON THAT DATE. ALL EXCHANGE DIFFERENCES ARE CHARGED TO INCOME & EXPENDITURE ACCOUNT IF RELATE TO REVENUE TRANSACTIONS AND ADJUSTED TO THE COST OF CAPITAL ASSETS IF RELATE TO CAPITAL TRANSACTIONS.

III. NOTES ON ACCOUNTS

1. CONTINGENT LIABILITIES:

- A) DISPUTED VAT LIABILITY UNDER APPEAL Rs. Nil/- (PREVIOUS YEAR: Rs. 38,17,348/-)
 B) DISPUTED INCOME TAX LIABILITY UNDER APPEAL Rs. 3,90,92,321/- (PREVIOUS YEAR: 2,83,40,110/-)
 * AMOUNT PAID RS. 86,37,753 (PREVIOUS YEAR RS. 86,37,753/-) SHOWN IN SCHEDULE -D

2. BALANCES IN PARTIES' ACCOUNTS ARE SUBJECT TO CONFIRMATION FROM THEM.

3. FUNDS RECEIVED FROM VARIOUS GOVERNMENT AUTHORITIES/RESEARCH FUNDING AGENCIES FOR UTILIZATION IN VARIOUS PROJECTS AS DIRECTED BY THAT AUTHORITIES/AGENCY ON THEIR BEHALF HAS BEEN SHOWN UNDER "RESEARCH PROJECT FUND". DETAILS OF UTILIZATION OF RESEARCH PROJECT FUND DURING THE YEAR IS AS FOLLOWS:-



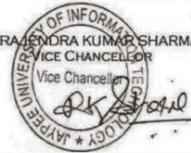
PARTICULARS	OPENING BALANCE AS ON 01.04.2024 (RS)	RECEIVED DURING THE YEAR* (RS)	REFUND DURING THE YEAR (RS)	UTILIZATION DURING THE YEAR			CLOSING BALANCE AS ON 31.03.2025 (RS)
				REVENUE EXPENDITURE (RS)	CAPITAL EXPENDITURE (RS)	TOTAL (RS)	
DST/DBT/HI/MCOST-PROJECTS	21,49,602	13,50,194	14,48,163	16,31,603	3,17,301	19,48,904	1,02,729
OTHER PROJECTS	23,12,988	8,04,139		10,60,523		10,60,523	20,56,604
TOTAL	44,62,590	21,54,333	14,48,163	26,92,126	3,17,301	30,09,427	21,59,333

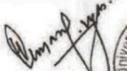
4. THERE IS NO BORROWING COST ON CONSTRUCTION DURING THE YEAR, AS TRUST HAS NO BORROWING.
5. PREVIOUS YEAR FIGURES HAVE BEEN REGROUPED/ REARRANGED OR RECLASSIFIED WHEREVER FOUND NECESSARY TO CONFIRM WITH CURRENT YEAR'S CLASSIFICATION.
6. FIGURES HAVE BEEN ROUNDED UP TO NEAREST RUPEES.

FOR DASS GUPTA & ASSOCIATES
 CHARTERED ACCOUNTANTS
 REGISTRATION No. 060712N

 (ASHOK KUMAR JAIN)
 PARTNER
 MEMBERSHIP No. 030583

FOR JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

 REGISTRAR
 Jaypee University of Information Technology
 Waknaghat Distt. Solan (H.P.)
 (RAJENDRA KUMAR SHARMA)
 VICE CHANCELLOR



 HEMANT TYAGI
 CHIEF FINANCE OFFICER


PLACE: NEW DELHI
 DATE: 22.09.2025