UTTARANCHAL UNIVERSITY
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UIT NEWSLETTER




UIT
NEWSLETTER
2024-25


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MESSAGE FROM THE PRESIDENT

At Uttaranchal University, our unwavering commitment to student-focused learning, cutting-edge research, and social responsibility continues to define our journey forward. Each initiative we undertake reflects our strategic vision—anchored in measurable outcomes and driven by a deep sense of purpose.

UIT, as a premier constituent of the university, continues to push the boundaries of academic innovation. With the integration of emerging technologies and learner-centric pedagogies, our students are being equipped not just for today's challenges but for tomorrow's opportunities. The accomplishments of our alumni—who are carving impactful paths in diverse sectors—serve as proud affirmations of our academic ethos.

I extend my heartfelt congratulations to the Director and the entire UIT fraternity for curating yet another inspiring edition of this newsletter. My appreciation also goes to the editorial team, whose creativity and commitment have brought this publication to life with such finesse.

Let us remain united in our pursuit of excellence and continue to strengthen UIT's legacy as a beacon of quality and innovation within Uttaranchal University.

Warm regards,
Sh. Jitender Joshi



MESSAGE FROM THE VICE PRESIDENT



At Uttaranchal University, we believe that what truly sets our students apart is not just the knowledge they gain, but the perspective they develop—guided by experienced faculty, enriched through immersive pedagogy, and strengthened by real-world exposure. Our vision of becoming a global leader in education is steadily taking shape through dynamic academic frameworks, international collaborations, and robust industry-academia partnerships.

UIT continues to embody this spirit of growth and innovation. Over the past year, the institute has made remarkable strides—whether in research, academic distinction, or entrepreneurial development. The vibrant culture of seminars, hackathons, technical fests, and community initiatives at UIT showcases the holistic learning environment we take pride in.

It gives me immense pleasure to witness this newsletter evolve into a dynamic platform—one that documents our achievements, fosters growth, and reflects the shared ambition of the Uttaranchal family. I acknowledge the editorial team for their creative efforts and unwavering dedication in bringing this edition to life.
Let us continue nurturing a culture of excellence, curiosity, and unity—one that truly defines who we are at UIT.

With best wishes,
Ms. Ankita Joshi

MESSAGE FROM THE VICE CHANCELLOR



It is always a privilege to connect with the academic community through platforms that celebrate our shared vision and accomplishments. This latest edition of the Uttaranchal Institute of Technology (UIT) newsletter stands as a testament to the vibrant, ever-evolving academic environment we are proud to nurture.

At UIT, research continues to be a fundamental pillar of our institutional ethos. Our pursuit of knowledge is not limited to theoretical exploration—it is a dynamic process driven by innovation, curiosity, and a sense of responsibility toward societal progress. Over the past year, our faculty and students have actively contributed to diverse research domains, making meaningful advancements in science, engineering, and emerging technologies.

We remain committed to expanding student engagement in research, providing experiential learning opportunities that shape critical thinkers and future leaders. Their inquisitive minds and novel approaches are the catalysts of transformation that fuel our collective success.

This newsletter is more than just a chronicle—it is a reflection of the intellectual spirit that defines UIT. I appreciate the editorial team for curating this initiative with such diligence and creativity. Let this publication inspire more dialogue, more exploration, and more collaboration within our academic ecosystem.

With best regards,
Prof. (Dr.) Dharam Buddhi

MESSAGE FROM THE PRO VICE CHANCELLOR



Dear Students and Faculty Members of UIT,

It is with immense pride and joy that I extend my warmest congratulations to all contributors of the latest edition of the Uttaranchal Institute of Technology (UIT) newsletter. This publication is a celebration of the spirit, talent, and dedication that define our community.

While academic rigor remains central to our vision, it is through active engagement in co-curricular and extracurricular avenues that students truly evolve. From cultural fests and technical workshops to sports events and innovation challenges, these experiences ignite creativity, build confidence, and shape resilient, well-rounded individuals.

Such engagements cultivate skills that go far beyond textbooks—leadership, collaboration, empathy, and adaptability. These are the very attributes that empower students to thrive in an ever-changing professional landscape. They also strengthen the social fabric of our campus, fostering friendships, mentorships, and a deep sense of belonging.

As we continue our pursuit of excellence, let us encourage one another to embrace every opportunity for growth—both inside and outside the classroom. Let this newsletter serve as a reminder of the dynamic, inclusive, and enriching journey that UIT offers to each member of its community.

Wishing you all continued success and fulfillment,
Prof. (Dr.) Rajesh Bahuguna

FROM THE DESK OF THE DIRECTOR



Welcome to the second edition Newsletter of Uttaranchal Institute of Technology (UIT), Uttaranchal University, Dehradun.

Dear Reader;

In a world shaped by rapid technological evolution, engineering continues to serve as the foundation for innovation, problem-solving, and sustainable growth. At the Uttaranchal Institute of Technology (UIT), we remain committed to nurturing future engineers not only through rigorous academic instruction but also through vibrant co-curricular engagements that promote holistic development.

Reflecting on the year 2024–2025, I am filled with immense pride and appreciation for the unwavering dedication of our faculty, staff, and students. Despite the ever-present challenges of the time, the resilience and spirit of our community have enabled us to achieve remarkable milestones. This past academic year was marked by an impressive lineup of events—our flagship TechFest witnessed unprecedented participation, while seminar series, workshops, and hackathons sparked curiosity and cultivated hands-on innovation across disciplines.

This newsletter captures the essence of our shared journey—our challenges, our breakthroughs, and our aspirations. It serves not just as a report, but as a celebration of our vibrant academic culture and collective progress.

I extend my heartfelt regards to the Editorial Committee for their tireless efforts in curating this edition. Their dedication and meticulous attention to detail ensure that this publication not only informs but inspires.

As we look ahead, let us continue to foster an ecosystem of collaboration, curiosity, and excellence. I am confident that, together, we will continue to shape futures and transform ideas into impactful realities.

Warm regards,

Prof. (Dr.) Sumit Chaudhary
Director, Uttaranchal Institute of Technology

SDG 3 focuses on ensuring healthy lives and promoting well-being for people of all ages. It aims to reduce maternal and child mortality, combat communicable and non-communicable diseases, and strengthen mental health services. The goal supports universal health coverage, access to affordable medicines and vaccines, and improved health financing. It also emphasizes the importance of early warning systems, health education, and reducing deaths caused by pollution, road accidents, and substance abuse.
By investing in preventive care and resilient health systems, SDG 3 builds a foundation for thriving communities and sustainable development.



GOOD HEALTH AND WELL-BEING



University Leads the Way with 'एक पेड़ माँ के नाम'



As part of the national campaign "एक पेड़ माँ के नाम – Plant4Mother," incited by Hon'ble Prime Minister of India to encourage community participation and collective action in planting trees in honour of our mother, Uttaranchal University successfully organized a Mega Plantation Drive in its campus. The event saw active participation of NCC, NSS, and Agriculture students, faculty members, Heads of Departments, Directors and other senior officials of the university, including Shri Jitendra Joshi the Hon'ble President of the University, Prof (Dr) Dharam Buddhi, Vice Chancellor, and Prof (Dr) Rajesh Bahuguna, Pro-Vice Chancellor, actively participated in the plantation of medicinal and fruit trees like Indian gooseberry (आंवला), Behada (बहेड़ा), Harad (हरड़), Neem (नीम), Chandni (चांदनी), Guava (अमरूद), Gamhar (गम्हार), Moringa (मोरिंगा), Shami (शमी) and many other plants in the university campus.



The Hon'ble President of the University emphasized the critical role of tree plantation in mitigation of adverse impacts of climate change and global warming. He highlighted the importance of preserving local biodiversity and motivated all students for planting trees in their communities. Additionally, he stressed the importance of proper care of the newly planted saplings to ensure their healthy growth. In this dive, over 100 trees were planted within the campus, marking a significant contribution to environmental conservation and sustainability efforts. The event demonstrated the University's commitment for the environmental stewardship and served as an inspiration for every student and staff to contribute for the green cause throughout their lives.

Smash & Shine: Badminton Brilliance at UIT

The University Sports Committee at Uttaranchal University, in collaboration with the Sports Club at the Uttaranchal Institute of Management and Uttaranchal School of Computing Sciences, organized a captivating Intra-College Badminton Tournament on 27-28 September 2024. With spirited displays of talent and sportsmanship, participants showcased their badminton prowess, representing different departments and batches. The tournament featured ten boys' and girls' teams, intensifying the competitive spirit among the participants. Girls team of UIT won the Doubles Table Tennis match against the team of LCD and won hearts with becoming the overall first runner -up in all the four categories. Ms Ankita Joshi, Vice-President of Uttaranchal University, along with Dr Rajesh Bahuguna, Pro Vice-Chancellor, Dr Shravan Kumar, Dean Student Welfare, Dr Sonal Sharma, Director USCS, Dr Ajay Singh, Director SALS and Prof (Dr) Pradeep Suri, Director UIM presented the winners' trophy. Dr. Shravan Kumar extended congratulations to the victorious students for their remarkable achievement. Prof (Dr) Sumit Chaudhary, Director UIT commended Mr Gaurav Kumar, the Sports Coordinator of UIT for preparing the teams and bringing laurels to the department.



SDG 4 – Quality Education focuses on providing inclusive, equitable, and high-quality learning opportunities for people of all ages. It aims to ensure that every individual, regardless of background or circumstance, has access to education that empowers them with critical thinking, life skills, and pathways to personal and professional growth. This goal supports early childhood learning, vocational training, gender equality in schools, and education that fosters sustainability and global citizenship.

QUALITY EDUCATION



DEEKSHARAMBH '24



UTTARANCHAL UNIVERSITY WELCOMES A NEW CHAPTER IN ACADEMIC EXCELLENCE

Uttaranchal Institute of Technology, Uttaranchal University Deeksharambh '24 commenced on 16 August 2024, with a lamp-lighting ceremony, signifying the beginning of a new academic journey for our incoming students. The event was graced by distinguished dignitaries, including the President, Vice President, Vice Chancellor, and Pro Vice Chancellor of Uttaranchal University, accompanied by the Director UIT, Director DSW, and Head CRC. These esteemed leaders imparted valuable knowledge to the freshers during the orientation program, providing insights into the university's academic culture and expectations.





Adding depth to the proceedings, UIT alumni shared their experiences, offering perspectives on the institution's faculty, administration, and facilities. Amit Goel, Sr. Technical Architect, Infosys also graced the event and imparted insightful practical aspects to the students. In addition to this, UIT has launched their Newsletter for the Academic Year 2023-24. The orientation program concluded successfully, leaving our new students well-prepared and inspired for their upcoming academic pursuits at Uttaranchal University. We extend a warm welcome to our newest members and look forward to nurturing their growth and potential.

LEARNING BEYOND CLASSROOMS

MAPPING KNOWLEDGE



Uttaranchal Insititute of Technology organized an industrial visit to Survey of India for B Tech I year students on 21 August 2024 as a part of ongoing induction program. It was an opportunity to gain firsthand experience of the industry. The Survey of India is a central engineering agency taking care of mapping and surveying. The students got an opportunity to visit the museum. There were sixty students accompanied, guided, and supervised by faculty members namely Mr Gaurav Thakur & Dr Ruby Pant. The students boarded the college bus from the campus at 10:30 AM & headed for Survey of India museum on EC Road. The students were duly welcomed by the officer in charge Surveyor Ms Payal Arya, and she guided the students further. The students were filled with enthusiasm on seeing many instruments and devices and were given information on the instruments like Great Theodolite, Ramsden 100-foot chain, Colby compensation bar. The tour was highly informative and had a high educational value. Along with being a great learning curve it was also an excursion for the students out of the daily routine. The students were also provided refreshments by the college. The visit was organized under the supervision of Prof (Dr) S K Shah, Head, B Tech first year, Prof (Dr) Sumit Chaudhary Director UIT. The students expressed gratitude for such an enriching experience and requested to continue this learning exercise in the future also for the larger benefit of the students.



MORAL COMPASS



The Uttaranchal Institute of Technology organized an insightful and thought-provoking session on "Human Values and Ethics" on 14 August 2024 as part of the ongoing student induction program. Dr Pinki Chugh was the keynote speaker for the session, where she highlighted the critical importance of human values in shaping our lives. Dr Chugh discussed the profound impact of values and belief systems on individual and societal well-being, emphasizing the urgent need for these systems to be reinforced in today's rapidly changing world. She passionately spoke about the responsibility of the current generation to uphold these values to create a better future. The session was well attended by faculty members from the B Tech CSE department, who actively engaged in the thought-provoking discussions. Prof (Dr) Sumit Chaudhary, Director UIT also addressed the gathering, urging students to adhere to their values as a guiding force in achieving their life goals. He emphasized that success is not only measured by professional achievements but also by the integrity and ethical standards one upholds throughout life. The session was a significant part of the induction program, setting a reflective and purposeful tone for the new academic journey of the students, while inspiring them to build character, compassion, and clarity in every step ahead.



From Classrooms to Celebrations



The Uttaranchal Institute of Technology (UIT) celebrated Engineer's Day with grandeur through a two-day Mega Event during 12 -13 September 2024. The celebrations began with a formal inauguration ceremony. President Shri Jitender Joshi and Chairperson Smt. Anuradha Joshi were the chief guests. Vice Chancellor Prof. (Dr.) Dharam Buddhi, Pro Vice Chancellor Prof (Dr.) Rajesh Bahuguna and Controller of Examination Mr. K. B. Pokhriyal also graced the occasion along with all the HoD and faculty members.



The first day was packed with a series of academic and cultural events, including challenging competitions like Web War, Crack Code, Cosplay, BGMI Badshah IGL, Engineers' got Talent etc. The second day witnessed the grand inauguration of the new UIT building. The state-of-the-art infrastructure was formally unveiled in the presence of the university's high-profile dignitaries. The new building is expected to enhance the teaching-learning experience. At the end of the program Respected Director Prof. (Dr.) Sumit Chaudhary congratulated and thanked all the members of faculty for putting in their hard efforts in making this entire event a success and encouraged all of them to keep taking the legacy and fame of the UIT to newer heights.









EDUCATION IN FOCUS: *A PRESENTATION SHOWCASE ON LITERACY DAY*

On the occasion of International Literacy Day, Expressions, the Literary Club, Uttaranchal Institute of Technology (UIT), organized a PowerPoint Presentation Competition titled "Educate Us" on 9 September 2024. The event aimed to spread awareness about the importance of literacy in shaping individuals and societies. Students from various departments enthusiastically participated, showcasing their creativity and knowledge through insightful presentations. Topics ranged from the significance of literacy in modern society to innovative ways of promoting education for all. The competition fostered a spirit of healthy competition and encouraged students to think critically about global literacy challenges. The event was judged by Animesh Dabral, Club President and Dr Pinki Chugh, Club Coordinator, who praised the participants for their research, presentation skills, and innovative ideas.

All the winners were awarded certificates and prizes. The competition was a great success, highlighting the importance of education and literacy in today's world. Prof (Dr) Sanjeev Kumar Shah, Head of BTech first year congratulated the students for organizing such an event. The event was organized under the guidance and support of the Prof (Dr) Sumit Chaudhary, Director UIT.





UIT Connects: Parents & Teachers Forge Student Success



UIT organized a fruitful PTM on November 23, 2024, at the UIT building, providing a platform for meaningful interaction between parents, faculty members, and university administration. Dr. Sumit Chaudhary, Director UIT, along with the HoD from various departments, warmly welcomed the parents. Dr. Sumit shared key updates on the newly developed UIT building, infrastructure, study resources, enhanced safety protocols, and the availability of academic and support resources. He also highlighted the institute's impressive placement record and academic excellence.

One-on-one interaction sessions were followed, where Director sir personally addressed individual queries from parents. Subsequently, mentors engaged with parents over light refreshments, fostering a comfortable and open environment for further discussion. Feedback collected through forms indicated high levels of parental satisfaction, with several attendees expressing appreciation for the initiative and requesting regular PTMs in the future. The event underlined UIT's strong commitment to transparency, student success, and collaborative involvement of parents in the academic journey.

Civil Engineering Students Explore Surveying Innovations on National Science Day





Stars, Stones & Surveying:
Civil Camp at Ghatoo Ghat



The Department of Civil Engineering at Uttaranchal Institute of Technology (UIT) organized a Survey Skills Development Camp from 21 February to 25 February 2025, at Ghatoo Ghat, Rishikesh. Nestled in the foothills of the Himalayas, the scenic yet challenging terrain provided students with an immersive and enriching learning experience.

The students engaged in reconnaissance, triangulation, plane tabling, contouring, astronomical observations, and total station operations under the guidance of Mr Ashish Pathani, Assistant Professor and Mr Arvind Singh Negi, Lab Instructor. Observing stars and planetary movements added an exciting dimension to their learning. The hilly landscape made surveying both challenging and thrilling, pushing students to apply their knowledge in real-world conditions.



Prof (Dr) Sumit Chaudhary, Director UIT, motivated students to make the most of this hands-on experience, while Mr Gaurav Thakur, Head of Civil Engineering Department, emphasized the importance of field skills in professional growth. Beyond technical training, the camp fostered teamwork, problem-solving, and adaptability, making learning both educational and enjoyable. The camp concluded on 25 February 2025 leaving students enriched with skills, memories, and a deeper appreciation for surveying in diverse terrains.





In observance of National Science Day, the Department of Civil Engineering organized an educational visit to the Survey of India, Dehradun on 28 February 2025 for B.Tech. Civil Engineering students. Mr Loknath Kumar and Ms Samrity Jalota, Assistant Professors Civil Engineering, accompanied the students.

The visit began with an interactive session in the auditorium, where experts briefed students about the Survey of India's history, role, and key projects, including village mapping and the Namami Gange project. A quiz session was also held, with winners receiving tokens of appreciation.

Students then explored the National Survey Museum of Geodetic & Research Branch, where surveying instruments used for various types of surveys were exhibited. The visit provided insights into traditional and modern technologies like total stations, GPS receivers, and geodetic instruments. They also learned about the Continuously Operating Reference Station (CORS), a crucial technology for high-precision GPS-based surveys and geospatial mapping. Aligned with the theme of National Science Day 2025, "Empowering Indian Youth for Global Leadership in Science & Innovation for Viksit Bharat", the visit emphasized the role of geospatial technologies in nation-building.

Skill Up,

Civil Engineering: Mastering 3ds Max



The Department of Civil Engineering, University of Dehradun, successfully conducted a five-day hands-on training workshop on 3ds Max from March 4 to March 8, 2025 for the students of IV, VI and VIII Semester. The workshop aimed to enhance students' 3D visualization and design skills, equipping them with practical knowledge of 3D modeling, rendering, and visualization techniques crucial for architectural and structural design. The sessions were led by ErDinesh Sharma, a Mechanical Design Engineer and Software Trainer from The Design World, who provided in-depth training on industry-standard techniques, real-world applications, and best practices in design software usage. The workshop provided a highly interactive and engaging experience, ensuring that students not only understood the theoretical aspects of 3ds Max but also applied their learning in hands-on sessions.



The participants worked on real-time design projects, allowing them to practice advanced modelling techniques under expert guidance. This approach helped bridge the gap between academic learning and industry requirements, making students more competent in 3D design and visualization. The workshop also emphasized the importance of such digital tools in modern civil engineering for creating accurate structural representations and architectural models. Students expressed great enthusiasm, appreciating the opportunity to work with industry-relevant software in a practical setting.

The event concluded with remarks from Mr Gaurav Thakur, HOD, Civil Engineering and Prof (Dr) Sumit Chaudhary, Director UIT praising the initiative and encouraging students to continue exploring technological advancements in civil engineering.

Step Out

CSE: Industry Visit to Slog Solutions



The Department of Computer Science & Engineering, Uttaranchal Institute of Technology (UIT), successfully organized an industrial visit to Slog Solutions Pvt. Ltd., Dehradun, on 4th April 2025. The visit was part of the department's ongoing commitment to providing students with hands-on exposure to real-world industry environments and operations. A group of 50 students, accompanied by faculty members, participated in the visit. The objective was to offer students practical insights into the workings of a leading IT firm and to familiarize them with the latest trends in software development, cybersecurity, and project management methodologies.



At Slog Solutions Pvt. Ltd., students were warmly welcomed by the company's technical team. A detailed session was conducted by industry experts, who covered the company's core areas of operation, ongoing projects, client handling strategies, and the use of modern technologies in software development. The team also demonstrated live projects and shared valuable career guidance and tips on meeting industry expectations for budding engineers. Dr Madhu Kirola, Head of the CSE Department, expressed her gratitude to Slog Solutions Pvt. Ltd. for their support and collaboration. Students actively interacted with the professionals, asking questions and engaging in discussions current technologies. The visit concluded with a vote of thanks and a group photo to commemorate the memorable occasion.

Overall, the visit proved to be a highly informative and inspiring experience for the students, strengthening the academia-industry relationship and enhancing the practical learning aspect of the curriculum.

Visionary Vignettes : UIT's Dramatic Showcase

Swami Vivekanand Auditorium at Uttaranchal University came alive with emotion and excitement as Expressions – The Literary Club of UIT organized Visionary Vignettes 2025, a vibrant drama competition, hosted by Animesh and Anjali of Literary Club UIT; celebrating the power of performance and storytelling on 16 April 2025. Adding to the prestige of the event, dignitaries from the university leadership were present to show their support. These included President Shri Jitender Joshi, Vice- President Ms Ankita Joshi, Vice- Chancellor Prof (Dr) Dharam Buddhi, and Pro Vice-Chancellor Prof (Dr) Rajesh Bahuguna. The occasion was graced by Prof (Dr) Sumit Chaudhary, Director UIT, Dr Madhu Kirola ,HoD CSE, Head of the Department of CSE, Dr SK Shah, BTech first-year coordinator, Prof. (Dr.) Anil K. Dixit, Chairperson of the University Literary Committee, and other respected Head of Departments and faculty members, all of whom appreciated the students' creative endeavors.





The esteemed panel of judges, Dr. Rachna Joyal and Mr. Mohit Dodval, brought their expertise and experience to the table, evaluating each performance on aspects such as originality, acting, direction, and impact. Dr. Pinki Chugh, coordinator, Expressions – The Literary Club, along with the organizing team, played a pivotal role in ensuring the smooth execution of the event along with the unconditional support by Prof (Dr) Sumit Chaudhary, Director UIT.



The team "RD Dramatic Dynamos" from SLA claimed the first prize for their gripping performance and storytelling. The first runner-up position was secured by "Insightful Digital " from UIT, followed closely by "Digital Dilemmas" as the second runner-up. Both teams received high praise from the judges for their originality and stage presence. The event was wrapped up with cheers, group photographs, and a sense of pride among all participants and organizers.

Foundations of Learning: Building Skills Brick by Brick



A site visit was organized by the Department of Civil Engineering, Uttaranchal Institute of Technology (UIT), at construction site of Dev Bhoomi Constructions to provide second and third-year Civil Engineering students with practical exposure to real-time construction activities. The focus of the visit was on the layout raft foundation, retaining wall, shuttering work and understanding the Bar Bending Schedule (BBS). The visit was organized under the supervision of Mr. Gaurav Thakur, Head of the Civil Engineering Department and Mr. Vinod Balmiki, Assistant Professor, Civil Engineering Department.

The site visit commenced with an inspirational address by Prof. (Dr.) Sumit Chaudhary, Director UIT, who motivated the students and extended his wishes for their successful exploration of the construction site. Site Engineer Mr. Dev guided the students through a highly informative and engaging session.

Revolutionizing Data:
Semantic Search Lecture at UIT

The Department of Computer Science and Engineering at the University Institute of Technology (UIT) successfully organized an enlightening guest lecture on "Unlock the Power of Semantic Search: Revolutionizing PostgreSQL with pgvector" on April 21, 2025. The session was led by Mr Vivek Singh, Principal Database Specialist at Amazon Web Services (AWS). The event was grace by the presence Dr Sumit Chaudhary, Director UIT, Dr Madhu Kirola, HoD CSE along with faculty members and more than 1000+ students.

Mr Singh, a seasoned expert in database technologies, shared deep insights into the growing relevance of semantic search and its transformative impact on modern data systems. He demonstrated how the integration of pgvector with PostgreSQL is enabling more intelligent, context-aware search capabilities by leveraging machine learning and vector embedding.





The lecture emphasized practical applications, scalability, and the performance benefits of semantic search, offering students and faculty a glimpse into cutting-edge database innovations shaping the future of data management.

The event received an overwhelming response from students, faculty, and research scholars, reflecting a strong interest in advanced data systems and their applications in industry.

The Department of Computer Science and Engineering extends heartfelt thanks to Mr Vivek Singh for his time, knowledge, and inspiring presence, and looks forward to more such knowledge-sharing initiatives in the future.



Students observed raft foundation work, including reinforcement layout, waterproofing, and concrete pouring. They learned how raft foundations distribute structural loads on weak soil. The visit also covered shuttering using steel and plywood formwork, along with support and de-shuttering methods. Site engineers explained the preparation and interpretation of the BBS, highlighting bar markings, lengths, and cover. Safety measures like helmets, jackets, and site rules were also demonstrated.

Overall, the visit offered valuable practical insights that reinforced the students' classroom learning and improved their understanding of construction techniques.



SDG 5 aims to eliminate discrimination and violence against women and girls while promoting equal access to education, leadership, healthcare, and economic opportunities. It encourages inclusive policies, shared responsibilities, and the use of technology to advance gender equity across all areas of life. It supports women's full participation in political and economic decision-making. Legal reforms and awareness campaigns are key tools for breaking systemic barriers. Achieving gender equality is not just a human rights issue—it's essential for building resilient societies and sustainable development.

GENDER EQUALITY



Women Cell: Safety Debate



On 22 November 2024, the Womens' Cell of Uttaranchal Institute of Technology (UIT) organized a debate competition titled "Are Government's Efforts Enough to Ensure Women Safety?" The event, held under the aegis of the Computer Science & Engineering Department, saw active participation and engaging discussions. The program was graced by Prof (Dr) Sumit Chaudhary, Director UIT, and Prof (Dr) Madhu Kirola, HoD CSE as chief guests. Ms Anuradha Brijwal and Ms Pratibha Dimri, faculty members of the CSE Department, coordinated the event. The participants discussed government efforts such as stricter laws, helpline services, and awareness campaigns, as well as the challenges of inadequate implementation, societal issues, and delays in the justice system. Mr Arpit Goel and Ms Swarnima Gupta, Assistant Professors at UIT judged the competition.



"The winners were:
- 1st Position: Jaimin Joshi and Anjana Gupta (Team 2)
- Runners-Up: Ziya Yadav and Abhishek Ranjan (Team 5)
- Best Speaker: Shubham Yadav

The event concluded with an interactive Q&A session, allowing the audience to contribute their perspectives, making the discussions more enriching. The Women's Cell Committee extended gratitude to all participants, faculty, and audience for making the event a success."

Students "Break the Bias" in Poster Competition



The Women Cell, UIT, organized a Poster Making Competition on 6 March 2025 with the theme "Break the Bias: A World of Equal Opportunities." The event aimed to inspire students to express their vision of an inclusive world through art. Participants from various departments presented thoughtful and visually striking posters advocating for gender equality and diversity in society. The competition was judged by Ms. Sakshi Koli, Dr. Pinki Chugh, and Ms. Renu Bahuguna carefully evaluated the posters based on creativity, relevance to the theme, and overall impact.

The competition concluded with an awards ceremony, where winners were announced, and all participants received certificates. The judges praised the students' dedication and artistic talent, highlighting how events like this contribute to ongoing conversations about equality and social change. Ms Varsha Upadhyay secured the first position whereas Ms Anjana Gupta and Ms Kirti Anand secured Second and Third position respectively.



SDG 8 – Decent Work and Economic Growth promotes sustained, inclusive, and sustainable economic growth by ensuring full and productive employment and decent work for all. It focuses on fair wages, safe working conditions, equal opportunities, and fostering innovation and entrepreneurship—empowering individuals while driving economic resilience and social progress. It also aims to end forced labor, modern slavery, and child labor, while expanding access to financial services and supporting youth employment and skill development.



DECENT WORK AND ECONOMIC GROWTH





The Growth Mindset



Uttaranchal Institute of Technology commenced its Induction Orientation Program for the academic session 2024–25 with an engaging session led by Ms. Shaan Vats, Lead HR at Infosys. Held as a part of the institute's commitment to bridging academic learning with real-world industry expectations, the session offered freshers a compelling overview of the current job landscape.



Ms. Vats shared her extensive experience from the corporate world, shedding light on emerging trends in the tech industry and the evolving dynamics of the employment market. Her insights not only helped students understand the importance of adaptability and continuous learning but also highlighted the diverse career pathways available in the digital and technological space.

A significant portion of her talk focused on placement preparation, where she outlined key skills sought by top recruiters and offered strategic guidance on aligning academic pursuits with industry requirements. Her practical advice served as a valuable foundation for students as they begin shaping their professional journeys.



The session was well-received by both students and faculty, setting a forward-looking and goal-oriented tone for the academic year ahead. By integrating industry perspectives into the orientation, UIT reaffirmed its dedication to nurturing industry-ready professionals equipped for the future of work.







Skills. Knowledge.

Industrial Exposure: ME Visit

On 4 September 2024, students from the Department of Mechanical Engineering, Uttaranchal University visited Mochiko Shoes Pvt. Ltd., Rishikesh. This hands-on experience introduced students to real-world manufacturing, showcasing industrial operations and workflows beyond classroom theory. Coordinated by Mr. Vivek John and Mr. Kshitij Pandey, the visit emphasized practical learning and the relevance of technical education in shaping future-ready professionals.

Students explored assembly line operations, lean manufacturing practices, and workplace safety protocols. They also interacted with professionals from different departments, gaining insights into production challenges and quality control techniques. The visit reinforced the value of experiential learning in mechanical engineering and was well-received by both students and faculty.



Career Talk: Alumni Workshop



The Alumni Cell of UIT, under Uttaranchal University, organized an online “Alumni 1-Hour Workshop” on 17 September 2024. The session featured alumna Ananya Sharma (Batch 2018–22), currently pursuing her MS in Data Science in Germany. She guided students on placement strategies, evolving tech industry demands, and career prep insights. The event was coordinated by Ms. Pratibha Dimri and supported by CSE student leaders, ending with a dynamic Q&A and heartfelt thanks to all contributors.

Ananya also emphasized the importance of continuous learning and shared tips on adapting to global work cultures. She highlighted key differences between academic expectations in India and abroad, offering practical advice on navigating higher studies. The interactive nature of the workshop made it highly engaging, and students appreciated the relatable guidance from a successful alumna.

IPR Management Development Program

The Uttaranchal Institute of Technology successfully inaugurated a five-day Management Development Program (MDP) titled "Leveraging Intellectual Property Rights (IPR) for Entrepreneurial Success" from 21 November to 26 November 2024. The program aimed to empower budding entrepreneurs, academicians, and industry professionals with insights into utilizing IPR as a strategic tool for innovation and business growth. The sessions covered various aspects of IPR, including patents, trademarks, copyrights, industrial designs, and trade secrets. Discussions emphasized how protecting intellectual property can boost an entrepreneur's competitive edge and ensure sustainable business development.



ECONOMY. IMPACT

Beyond Boundaries: Global Grit



On 4th February 2025, Department of Computer Science and Engineering, Uttaranchal Institute of Technology witnessed a momentous occasion as it hosted a prestigious Placement and Internship Program, marking a significant transition for students from academics to the professional world organised by the office of International Affairs.

The event commenced with a warm and gracious welcome extended to the esteemed guests, who have been instrumental in shaping the future of education and professional development. Among the distinguished guests were Prof (Dr) Dharam Budhhi, Vice Chancellor, Mr Abhimanyu Sharma, Senior Recruitment Specialist and Representative of the University of Ottawa, Canada, Prof (Dr) Shravan Kumar, Director Office of International Affairs, Prof (Dr) Sumit Chaudhary, Director UIT, Mr. Saurav Badoni, Placement Advisor, and Dr Madhu Kirola, HOD CSE. Dr Chaudhary delivered a compelling speech emphasizing the importance of academic excellence, innovation, and the role of industry-academia collaboration in shaping career trajectories. He highlighted the institution's efforts in preparing students to be competent professionals with real-world problem-solving skills. Following this, Dr Kumar, Director International Affairs shared his extensive experience regarding the university's ongoing collaborations with foreign institutions. He shared how such partnerships open doors to global education and research opportunities, offering students a chance to broaden their learning horizons beyond national boundaries. One of the most anticipated addresses came from Mr Abhimanyu Sharma who shed light on the evolving demands of international job markets and the significance of acquiring cross-cultural experiences. He encouraged students to embrace international exposure, which can serve as a catalyst in their professional growth and global employability. A key highlight of the event was the formal launch of the International Internship Program, designed to bridge the gap between academic knowledge and its practical application. With this, the Placement and Internship Program stands as a significant milestone in the academic journey of the students at Uttaranchal Institute of Technology.









The MDP was inaugurated by Mr. Pushker Singh Bisht, Assistant Director, DC MSME Haldwani along with Prof Dr Sumit Chaudhary, Director UIT, Prof Dr Anita Gehlot, Head of Division of Research and Innovation, Dr Madhu Kirola, Head of Computer Science and Engineering, UIT. Mr Pushker Singh Bisht highlighted the importance of IPR in today's knowledge-driven economy. He stated, "Intellectual Property is the cornerstone of innovation, and leveraging can effectively transform ideas into impactful ventures."

Key sessions included:

- "Understanding the Basics of IPR" by Mr. Prakash Bisht
- "Patent Strategies for Start-ups" by Prof Dr Anita Gehlot.
- "Protecting and Commercializing IPR" by Prof Dr Sumit Chaudhary.
- "Copyright and Industrial Design by Dr Madhu Kirola.

Participants engaged in interactive workshops, case studies, and group discussions to gain practical insights into filing patents, drafting licensing agreements, and navigating legal frameworks.

Interview Skills Unlocked



Uttaranchal Institute of Technology (UIT), Uttaranchal University, in collaboration with OPTA (Observe, Plan, Train, Assess), successfully organized a Workshop on Personal Interviews & Group Discussions. The event aimed to enhance students' professional skills, confidence, and communication abilities, preparing them for job interviews, leadership roles, and competitive exams. The workshop commenced with a lamp-lighting ceremony, invoking the blessings of Goddess Saraswati. The event witnessed the presence of esteemed dignitaries, faculty members, and expert trainers, who shared valuable insights on recruitment strategies, leadership training, and career development.

Prof (Dr) Sumit Chaudhary, Director UIT, delivered the welcome address, emphasizing the importance of effective communication and interpersonal skills in today's competitive job market. The workshop featured an expert panel comprising renowned professionals and industry experts by Col. Raman Arora (Rammy Arrey) – Former Infantry Officer, SSB Assessor, and Leadership Trainer, Col. S. Pande – Ex-SSB Interviewing Officer with extensive experience in conducting over 2,100 interviews, Col. Anupam – Air Defence Missile Regiment expert with over 2,200 candidate assessments as a Senior GTO, Col. I.P.S. Rana – Leadership mentor with specialized training from DIPR, DRDO, Mr. Shashi Shekhar – Ex-Assistant Commandant (AIR 23) and UPSC exam expert, Mr. Saurabh Kumar – English communication trainer and author with 12 years of experience, Adv. Shweta Chaudhary – Founder of Bharat Law, UK LLM graduate, and legal career mentor. Participants engaged in interactive sessions, mock interviews, and group discussions, gaining practical experience and personalized feedback from experts.



The event concluded with a vote of thanks proposed by Dr Madhu Kirola, HoD CSE by acknowledging the contributions of expert trainers, faculty members, and participants. The workshop proved to be an invaluable opportunity for students, equipping them with essential skills to excel in recruitment processes and professional environments. With this initiative, Uttaranchal University reaffirms its commitment to student success, bridging the gap between academia and industry expectations.

Tech Talk: Robotics & Career



Uttaranchal Institute of Technology, Uttaranchal University's Computer Science Club (UU-CSC) successfully organized an expert talk on Robotics and Placement Guidance on 7 March 2025 at 10:30 AM in the UIT Seminar Hall. The event was aimed at preparing students for the evolving demands of the tech industry through exposure to emerging technologies and placement strategies.

The session was led by Mr Vinit Dongare, an expert from Infosys specializing in Robotic Process Automation (RPA) and UiPath. He shared valuable insights into automation technologies, project management, and career readiness. The seminar was attended exclusively by third-year students of UIT. The event began with a lamp-lighting ceremony and a welcome address by Prof (Dr) Sumit Chaudhary, Director, who emphasized the importance of staying updated with industry trends. Mr Dongare's session covered key topics such as RPA, Infosys' recruitment process, essential technical skills, and career planning. A dedicated Q&A segment allowed students to get their queries addressed directly by the speaker.

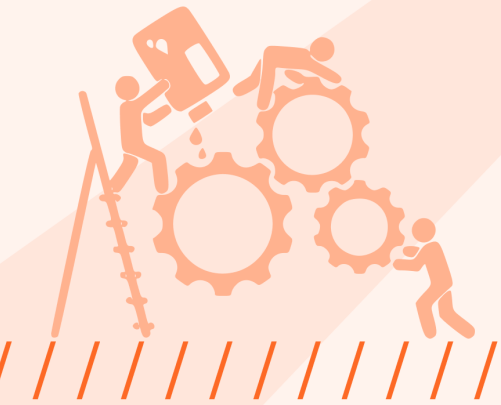


Organized under the guidance of Faculty Coordinator Ms Roosha Shamoon and the UU-CSC student team, the seminar proved highly informative and impactful. Students gained a clear roadmap for future career opportunities, and the session received positive feedback for its practical relevance and expert insights. The UU- CSC team extended their gratitude to all faculty and student coordinators for their efforts in making the event a success.



SDG 9 focuses on building resilient infrastructure, fostering sustainable industrial growth, and promoting innovation. It highlights the importance of access to technology, clean energy solutions, and research development to strengthen economic progress and environmental sustainability. It supports inclusive industrialization to ensure growth benefits all communities. Investing in infrastructure helps connect people, boost productivity, and drive entrepreneurship. The goal also promotes scientific research and the use of emerging technologies to tackle global challenges.

INDUSTRY, INNOVATION AND INFRASTRUCTURE





Wind Tech 2024:
Engineering Meets the Element

The Department of Civil Engineering, Uttaranchal Institute of Technology successfully completed a five-day Technical Workshop on "Wind Tech 2024: Mastering Wind Load Analysis" from 7 to 11 October 2024. The workshop, tailored for III and IV year Civil Engineering students, was led by Prof Ashok Kumar Ahuja, a retired professor from IIT Roorkee and a renowned expert in wind engineering.
The sessions covered key topics essential for structural design, including the evaluation of wind loads on buildings and other structures with special reference to the Indian Standard IS:875-Part 3.





Prof Ahuja provided insights into types of structures, structural loads, and windstorms, while also discussing the atmospheric boundary layer, basic and design wind speeds, and methods for evaluating wind loads using pressure and force coefficient methods.
Students also explored advanced topics such as terrain and interference effects, the impact of openings, experimental techniques for wind load evaluation, and the use of wind tunnels and modelling criteria. The workshop was highly beneficial for participants, providing them with a solid foundation in wind load analysis and its practical applications in structural design, thus enhancing their academic and professional readiness.

Two Pathways, One Vision:
Advancing Sustainable Futures with FDPs

Under the umbrella of Uttaranchal Institute of Technology, Uttaranchal University Department of Commuter Science & Engineering , Mechanical Engineering, Civil Engineering & Aerospace Engineering jointly inaugurated a five- day Faculty Development Programmes (FDPs) for distinguished department Faculties & Research scholars on the topics “Technology & Sustainability: Bridging Gaps with Blockchain, AI and Cloud Computing” & “Advanced Materials and Manufacturing Techniques for Sustainable Engineering Applications” from 9 January to 13 January 2025. The aim of one FDP was to provide hands-on software's dealing with Blockchain, AI and Cloud Computing as well as help in spreading awareness and motivating among the participants to conduct research in the field of Blockchain, AI, and Cloud Computing while the other FDP focus on for a better future & sustainable development. Both FDPs aims to how emerging technologies such as Blockchain, Artificial Intelligence, and Cloud Computing can address challenges in sustainability and empowering participants to design and develop sustainable engineering solutions while fostering research and innovation in environmentally responsible practices.
Prof (Dr) Dharam Buddhi, Vice-Chancellor and Prof (Dr) Sumit Chaudhary, Director UIT honoured the inaugural ceremony along with special guest Prof (Dr) Mayank Aggarwal, HoD CSE, Gurukul Kangri University, Haridwar & Dr Ashok Kumar Ahuja, Retired IIT Roorkee.
The resource persons for the FDP sessions were Prof (Dr) Mayank Aggarwal, (Dr) Amit Thakur, Dr Pallav Gupta, Mr Baeju Kumar. The FDP was coordinated by Dr Madhu Kirola HoD CSE, Dr Sanjeev Kumar Joshi, HoD ME, Dr Sachin Shrivastav, HoD AE & Mr Gaurav Thakur, HoD CE.





ONGC Visit: Energy Interaction



On 21 August 2024, B Tech II, III and IV-year students of Civil Engineering Department, Uttaranchal Institute of Technology visited the Oil and Natural Gas Corporation (ONGC) in Dehradun. The visit gave students a valuable opportunity to bridge the gap between theoretical knowledge and practical applications in petroleum engineering. The students were introduced to various processes of oil exploration, drilling, and production. They also had the chance to observe cutting-edge technology used in seismic data analysis and reservoir management.

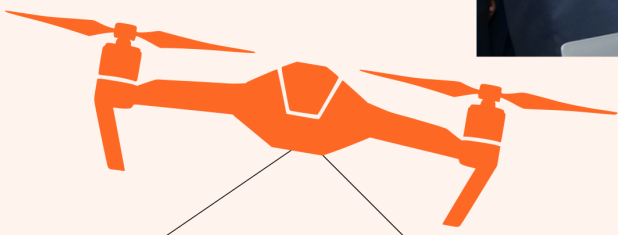
The interaction with industry experts offered insights into real-world challenges and innovations in the energy sector. The visit not only enhanced the students' understanding of the petroleum industry but also inspired many to pursue careers in this dynamic field. Prof (Dr) Sumit Chaudhary, Director UIT emphasized the importance of such industrial visits in fostering practical learning and professional development. The



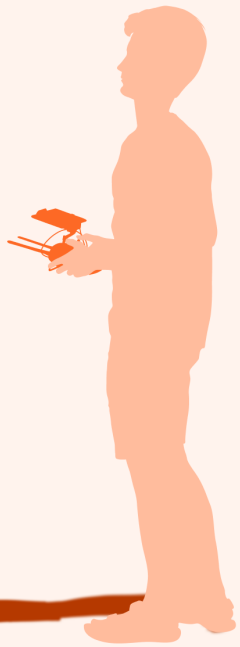
visit was organized under the supervision of Prof (Dr) S K Shah, Head of B Tech first year. The students were guided and accompanied by Dr Basant Ballabh Dumka and Mr Vinod Balmiki, faculty coordinators.

Space & Drones: Exploration Unleashed











The exhibition showcased drone models, satellite systems, and space-related technologies. It served as a platform for students to deepen their knowledge and curiosity in the aerospace field.
Hon'ble President Dr. Jitender Joshi, Vice President Ms. Ankita Joshi, Vice Chancellor, Pro Vice Chancellor, Director UIT, and DRI visited the exhibition and appreciated the students' innovative work.

The Department of Aerospace and Aviation at Uttaranchal Institute of Technology organized a two-day workshop and exhibition on "Drone Technology" and "National Space Day" on August 22–23, 2024. The event aimed to spark student interest in drones and space science through practical demonstrations and interactive sessions. The event was inaugurated by Mr. Swarn Sharma, Dr. Sachin Srivastava (HOD Aerospace), Ms. Priyanka Arun Kumar (HOD Aviation), and Dr. S. P. Gairola, along with department faculty.



Smart Sparks: UU Hackathon Begins



Uttaranchal University inaugurated internal hackathon on 31st August, 2024 for the University students of trans disciplinary domain. 500+ students participated in the event, who solved the problem statements given by Government agencies, PSU and State Governments for Smart India Hackathon. Event was inaugurated by Uttaranchal University President- Shri Jitender Joshi while addressing he motivated the students to participate in the events and coming up with innovative solutions to problem statements and encourage to file patents and ensures the every possible support for the betterment of society. Vice President Ms. Ankita Joshi motivated students for coming up with more innovative solutions and congratulated students for participation.

Vice Chancellor Prof. Dharam Buddhi asked the students to explore the problems from their areas and try to find out a solution for the same. He also extended his best wishes to the participants. Pro Vice Chancellor Prof. Rajesh Bahuguna talked about benchmarking in innovation and solving problems. Director Research & Innovation Prof. Rajesh Singh talked about the event and its importance for participants. The Jury Members of event are Dr. Brij Mohan Sharma, Dr. Gulshan Kumar Dhingra, Dr. Ranjan Mishra, Dr. Ankur Dumka, Dr. Ravindra Sharma, Mr. Amit Kumar Gupta and Mr. Yogesh Kumar Gupta. Director UIT Dr. Sumit Chaudhury proposed the vote of thanks.



EUREKA HACKATHON: IDEAS IN MOTION



The Uttaranchal University Computer Science Club in collaboration with IIT Bombay, successfully launched the second phase of the EUREKA Hackathon 2024 on 30 September 2024. The event was held to foster innovation, creativity, and teamwork among students from the first and second years of the university.

The inaugural session was graced by Prof (Dr) Sumit Chaudhary, Director of Uttaranchal Institute of Technology, Dr Rajesh Singh, Director DRI, Division of Research & Innovation, Dr Anita Gehlot, Head DRI who served as the Chief Guest. In their address, they highlighted the significance of hackathons in today's fast-paced technological landscape. They also emphasized how such competitions provide students with invaluable hands-on experience and encourage them to step out of their comfort zones. They also stressed the importance of active participation in these events, urging the students to seize every opportunity to sharpen their skills.

The panel of esteemed judges for the event included Prof (Dr) Sumit Chaudhary, Dr Rajesh Singh and Dr Anita Gahlot.
These distinguished academicians and professionals lent their expertise to the event, evaluating the innovative solutions and guiding the students with valuable feedback.
The EUREKA Hackathon serves as a platform for young innovators to showcase their talent and develop solutions to real-world problems. This hackathon opens doors for students to connect with industry experts and academic leaders, providing them a broader horizon to hone their skills.



The second phase of the event showcased the selected five teams from the first phase to further emphasize on their ideas, including a detailed PowerPoint presentation with a prototype and an enhanced business model.
Finally, team Aero Innovators won the title as the winners and emerged as the best innovators with the idea of a smart bottle deploying the idea of finding the dehydration through usage of various sensors.



Surveying The Future



The Department of Civil Engineering, Uttaranchal Institute of Technology, organized an insightful Expert Lecture on Surveying and Mapping on 4 October 2024. The session featured Mr Harish Hemdan, Officer-Surveyor at the Uttarakhand Geo-Spatial Directorate, Survey of India, Dehradun. Mr Hemdan, with his vast experience and expertise, delivered a comprehensive talk aimed at enhancing the knowledge and skills of students in the field of surveying and geospatial mapping.

Prof (Dr) Sumit Chaudhary, Director UIT inaugurated the session with a warm welcome and presented Mr Hemdan with a sapling, symbolizing knowledge and growth. Mr Gaurav Thakur, HoD Civil Engineering, and other faculty members were also present. During the lecture, Mr Hemdan covered the fundamental principles of surveying and its essential role in civil engineering projects. He discussed modern mapping techniques and geospatial technologies, sharing practical insights from his work at the Survey of India. His talk highlighted the importance of precision in surveying for successful infrastructure development and encouraged students to explore the latest advancements in geospatial mapping tools and software.

The session ended with a Q&A, where students sought guidance on career opportunities in surveying and geospatial fields. Mr Hemdan's focus on accuracy and continuous learning inspired the students to excel in their pursuits.



AI Meets Academia

A highly engaging guest lecture on the topic “Practical Use of AI in the Analysis of Academic Papers and Materials” was organized by Office of International Affairs, Uttaranchal University under the aegis of Uttaranchal Institute of Technology on 7 October 2024. The session, aimed at enhancing the students' understanding of artificial intelligence (AI) and its application in academic research, was delivered by Ms Mihaela Gjorcheva, Management Board Member, International Slavic University and Mr Ivan from International Slavic University, Macedonia, an expert in AI and machine learning.

During the session, the speaker provided valuable insights into how AI technologies are transforming the academic landscape. The key discussions included the use of AI tools to automate literature reviews, analyse large volumes of research papers, identify trends, and even predict future research directions. The students were introduced to various AI-powered tools like natural language processing (NLP) algorithms, machine learning models, and citation analysis platforms that are currently revolutionizing the academic and research sectors.





The session was followed by a lively Q&A session, where students interacted with the guest speaker, delving deeper into the practical applications of AI in the field of education. The event was an eye-opener for many students, showcasing the potential of AI beyond traditional uses, and encouraging them to explore innovative approaches in their academic pursuits.

The lecture was organized under the guidance of Prof (Dr) Shravan Kumar, Dean Student Welfare and Director of School of Liberal Arts with the support of Prof (Dr) Sumit Chaudhary, Director Uttaranchal Institute of Technology, with the aim to provide students with a broader perspective on AI and its future in academia. Overall, the session was a great success and received an overwhelming response from the attendees, enriching their knowledge on the cutting-edge advancements in AI and its application in academic research.

Industrial

Visionary Voices: Innovations Within

The Department of Computer Science & Engineering, Uttaranchal Institute of Technology (UIT), successfully organized "Visionary Voices: Expert Talk on Research, Innovation & Entrepreneurship" on 4th April 2025. The event aimed to inspire students to explore new frontiers in research and innovation while encouraging an entrepreneurial mind-set. The event was graced by the presence of distinguished experts, including Dr. Purnendu Shekhar Pandey, Mr. Yogesh Gupta, Prof. (Dr.) Rajesh Singh (Director of Research and Innovation), Prof. (Dr.) Anita Gehlot (Head DRI), Prof. (Dr.) Sumit Chaudhary (Director UIT), Dr. Madhu Kirola (HoD CSE), along with distinguished faculty members.

The keynote speaker for the session was Dr. Purnendu Shekhar Pandey, a renowned academician and expert in the field of research and innovation. Dr. Pandey delivered an insightful address, emphasizing the importance of interdisciplinary research, the role of innovation in solving real-world problems, and the rising opportunities in the startup ecosystem for young engineers. He shared practical strategies for turning ideas into impactful ventures and highlighted the significance of critical thinking and continuous learning.



The event was further graced by the presence of Mr. Yogesh Gupta, Managing Director, Morgan Building Technology Pvt. Ltd. Faculty members, research scholars, and over 200 students attended the event, actively participating in an interactive Q&A session with the dignitaries. The discussion provided a deep understanding of how students can align their academic knowledge with industry demands and societal needs.

Prof. (Dr.) Sumit Chaudhary, Director UIT, expressed his gratitude to the guests and remarked, “Such sessions are instrumental in shaping the vision and aspirations of our students towards meaningful innovation and entrepreneurship.”



Education

Smart Structures: Composite Tech in Focus



In line with the department's continuous efforts to bridge academic learning with real-world industry practices, the Department of Civil Engineering organized an Expert Lecture on "Need for Composite Construction Technology in the Modern Era" by Dr Siva Chidambaram, Senior Scientist, Central Building Research Institute (CBRI), Roorkee, on 24 April 2025, for B Tech, Civil Engineering students.

Dr Sumit Chaudhary, Director UIT highlighted the importance of the expert lecture, emphasizing how it provides students with valuable insights into the evolving field of composite construction technologies and the significance of such knowledge in shaping the future of civil engineering. The lecture began with a formal introduction of Dr Chidambaram, highlighting his vast expertise in building materials and structural technology.



Dr Chidambaram's talk focused on the advances in composite construction materials and systems, particularly their role in enhancing the strength, durability and sustainability of modern structures. He discussed the integration of various materials, such as steel, concrete, and polymers, to create composite systems that offer greater flexibility and efficiency in construction. Dr Chidambaram also shared case studies from CBRI, demonstrating how these technologies are being implemented in real-world scenarios.

The lecture concluded with an interactive Q&A session, where students posed insightful questions related to the challenges and opportunities in composite construction. Dr Chidambaram's responses deepened the students' understanding and sparked further interest in research and application of composite materials in civil engineering.

Lastly, Mr Gaurav Thakur, Head of Civil Engineering Department proposed heartfelt thanks to Dr Siva Chidambaram for his insightful lecture and to all attendees for their enthusiastic participation, making the event a memorable success.

SDG 11 seeks to make cities inclusive, safe, resilient, and sustainable. It promotes access to affordable housing, efficient public transport, and green public spaces.

The goal addresses urban challenges like pollution, disaster risk, and overcrowding, while preserving cultural and natural heritage.

It supports participatory urban planning, smart infrastructure, and sustainable resource management.

As urban populations grow, SDG 11 ensures that cities evolve to meet human needs while protecting the planet.

SUSTAINABLE CITIES AND COMMUNITIES



Tongues & Traditions



On International Mother Language Day, UIT CEC, in collaboration with the Literary Club, organized a special event to celebrate linguistic and cultural diversity, emphasizing the importance of preserving native languages and fostering multilingualism on 21 Februray 2025.

This annual observance serves as a reminder of the need to protect and promote linguistic heritage, ensuring that diverse languages continue to thrive across generations. The event featured a series of engaging activities, including singing performances, speeches, and interactive games, making it a memorable experience for all attendees. The event commenced with the lighting of the lamp and the recitation of Kulgeet, setting a respectful and inspiring tone. This was followed by an introduction to the significance of International Mother Language Day, presented by our anchors. The cultural segment included a melodious singing performance by Adarsh, 3rd Year and Nikita, 1st Year, captivating the audience with their talent. Further, Aung Ko Mayo and Shivam Kumar delivered insightful speeches, emphasizing the importance of preserving and respecting linguistic heritage. To keep the audience engaged, an interactive game session was organized, which was skillfully hosted by Ziya Yadav, 3rd Year. The activity added an element of fun and excitement to the event, ensuring active participation from the attendees. A special highlight of the event was the recitation of a Sanskrit shloka along with its meaning, presented by Mansee, 2nd Year. This addition enriched the cultural essence of the celebration, reinforcing the depth and wisdom of ancient languages. In conclusion, Dr Pinki Chugh, Faculty Coordinator of the Literary Club, delivered the vote of thanks, acknowledging the students' enthusiastic participation and the collective effort that made the event a grand success. The energetic participation of students and the well-coordinated efforts of the organizers made it an amazing and memorable celebration, further strengthening the appreciation of linguistic diversity.

Art & Aarti: Navratri at UIT



The Vedic Club of Uttaranchal University hosted a grand Navratri celebration on 04 October 2024, filled with artistic and cultural activities. The event brought together students from various colleges of Uttaranchal University and featured various competitions. The celebration beautifully aligned with the spirit of Navratri. In the Rangoli Competition, participants crafted intricate and colorful designs, symbolizing festivity and prosperity. The winners were: Team17- Varsha Upadhyay, UIT and Team 23- Muskan, UIT.

The Poster Making competition allowed students to express their creativity and conceptual skills through visually appealing designs on spiritual and cultural themes. The winners were: Snehanjali, SOA, I Year and Ankit Bhartiyam, UIM, III Year.

In the Mandala Art competition, students created beautiful geometric patterns that reflected mindfulness and spirituality. The winners were: Deepika, UIT, I Year and Alsifa, UIPS, D Pharm, I Year.

The Aipan Art competition, celebrating the traditional Kumaoni art form, was a highlight of the event. The winners were: Sanya Singh, MCA, USCS, I Year and Sonali Gusain, BBA, UIM, I Year.

Finally, the Face Painting competition, where students used their faces as a canvas to portray themes of Navratri, saw brilliant and imaginative designs. The winners of this category were: Shruti Tomar, UIPS, II Year and Mahi Dasila, UIT, 1 Year.

The event was a colorful and joyful celebration, and the enthusiastic participation from students made it a grand success. The vibrant atmosphere, filled with creativity and cultural expression, left a lasting impression on everyone present. The winners were awarded certificates and prizes, while all participants were appreciated for their efforts and creativity. This Navratri celebration not only highlighted the rich cultural heritage of India but also fostered a sense of unity and community within the university. The event was a true reflection of the festival's essence—creativity, devotion, and joy.



Crafting Culture & Community: Vishwakarma Pooja at UIT







Honoring the Divine Engineer, Inspiring Young Creators

The Department of Civil Engineering and Mechanical Engineering at Uttaranchal Institute of Technology celebrated the Vishwakarma Pooja on 17 September 2024. The event was conducted with great enthusiasm and devotion, with all civil engineering students actively participating in the celebration.

In addition to the student participation, several HODs from various departments across UIT also attended the pooja, highlighting the unity and reverence for Lord Vishwakarma, the divine architect and engineer of the gods, known for his extraordinary craftsmanship and creation of divine structures. The pooja holds immense significance in the engineering field, as it invokes blessings for creativity, craftsmanship, and success in professional endeavors. The celebration included a traditional aarti, which added a deeply spiritual dimension to the pooja.

The ceremony was followed by the distribution of prasadam to all attendees, enhancing the communal and spiritual experience. The event was a harmonious blend of devotion and cultural tradition, leaving a positive impact on the participants and fostering a sense of togetherness in the UIT community. The Vishwakarma Pooja was a resounding success, reflecting the department's commitment to honoring traditional values while inspiring students to excel in their engineering pursuits. Along with UIT departments, the School of Agriculture also celebrated the Vishwakarma puja.







“Masti Onam 2K24” Lights Up UIT with Festive Spirit and Cultural Joy







Celebrating Tradition, Play & Onam Spirit

On 19th September 2024, the Uttaranchal Institute of Technology was transformed into a vivid celebration of tradition, unity, and joy as it hosted “Masti Onam 2024”- a grand tribute to one of India’s most beloved festivals. Onam commemorates the homecoming of King Mahabali, a revered Asur whose legendary reign over the three worlds exemplified virtues of humility, sacrifice, and justice. Though rooted in myth, the spirit of Onam continues to unite people beyond boundaries, symbolizing that noble deeds transcend origin.

The grounds came alive with carnival-style games that blended fun with friendly competition where the highlights included:

- Lemon and Spoon Race – a test of balance and speed
- Drop and Grab Game – precision at play
- Bindi on Target – lighthearted accuracy
- Tug of War – sheer strength and team spirit

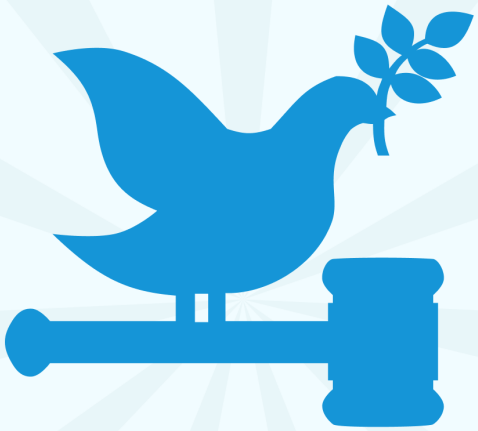
Students enthusiastically dove into each challenge, winning hearts—and prizes—with their energetic participation and sportsmanship. The entire celebration was seamlessly and gracefully anchored by Ankitha Satheesh and Ridwan, students of BTech, whose coordination infused the event with youthful vibrance and charm. Masti Onam 2024 wasn't just an event—it was a celebration of values, culture, and community. From myth to modern day, Onam’s message continues to resonate: even a demon, by virtue of goodness, can become unforgettable.







SDG 16 promotes peaceful and inclusive societies by ensuring access to justice and building transparent, accountable institutions. It seeks to reduce violence, corruption, and exploitation while protecting human rights and encouraging civic participation for effective governance. It advocates for rule of law and equal legal protection for all individuals. Strengthening institutions helps create trust and fairness in societies. From legal aid to whistleblower protection, this goal builds the foundations for safety, stability, and democratic progress.



PEACE, JUSTICE AND STRONG INSTITUTIONS



Indian Knowledge System for Sustainability

The Vedic Club at Uttaranchal Institute of Technology (UIT) organized a transformative seminar on 'Vedic Foundations for Engineering Success' on 21 and 22 August, 2024, designed for newly admitted engineering students. Renowned speakers, Mr. Vinay Joshi, Vedic scholar and counsellor, and Mr. Shivam Rajput, motivational speaker and Vedic scholar, shared invaluable insights, blending ancient wisdom with modern engineering challenges. The event inspired our freshers to embrace holistic development in their academic and professional journeys.





Meeting Peace Gaurds: Inspiring Youth for Nation-Building



Uttaranchal Institute of Technology, Uttaranchal University, has always strived to provide the motivation and inspiration to its students to achieve success in every walk of life and what could be better than a visit to IMA, Dehradun. Indian Military Academy (IMA), established in 1932, is the institution of the highest repute in the nation that has a long and proud history of producing highly decorated armed forces personnel with exemplary courage and highest order of integrity and patriotism of the defense forces of India. There were a total of around 113 students who visited IMA along with Prof (Dr) Sumit Chaudhary, Director UIT, Dr Madhu Kirola, HoD CSE, Prof (Dr) S K Shah, Head B.Tech first year and members of faculty namely Mr Yashwant Bisht, Mr Devendra Singh, Dr Ruby Pant, Mr Ram Narayan, Mr Shailender Tiwari, Mr Ankit Chamoli, Mr Jitendra Kumar, Dr.Shradha Kalkhundiya and Mr Subham Thapliyal. The group from the college was received warmly there by Major Ajay Rana who was kind enough to be the guide for the day.



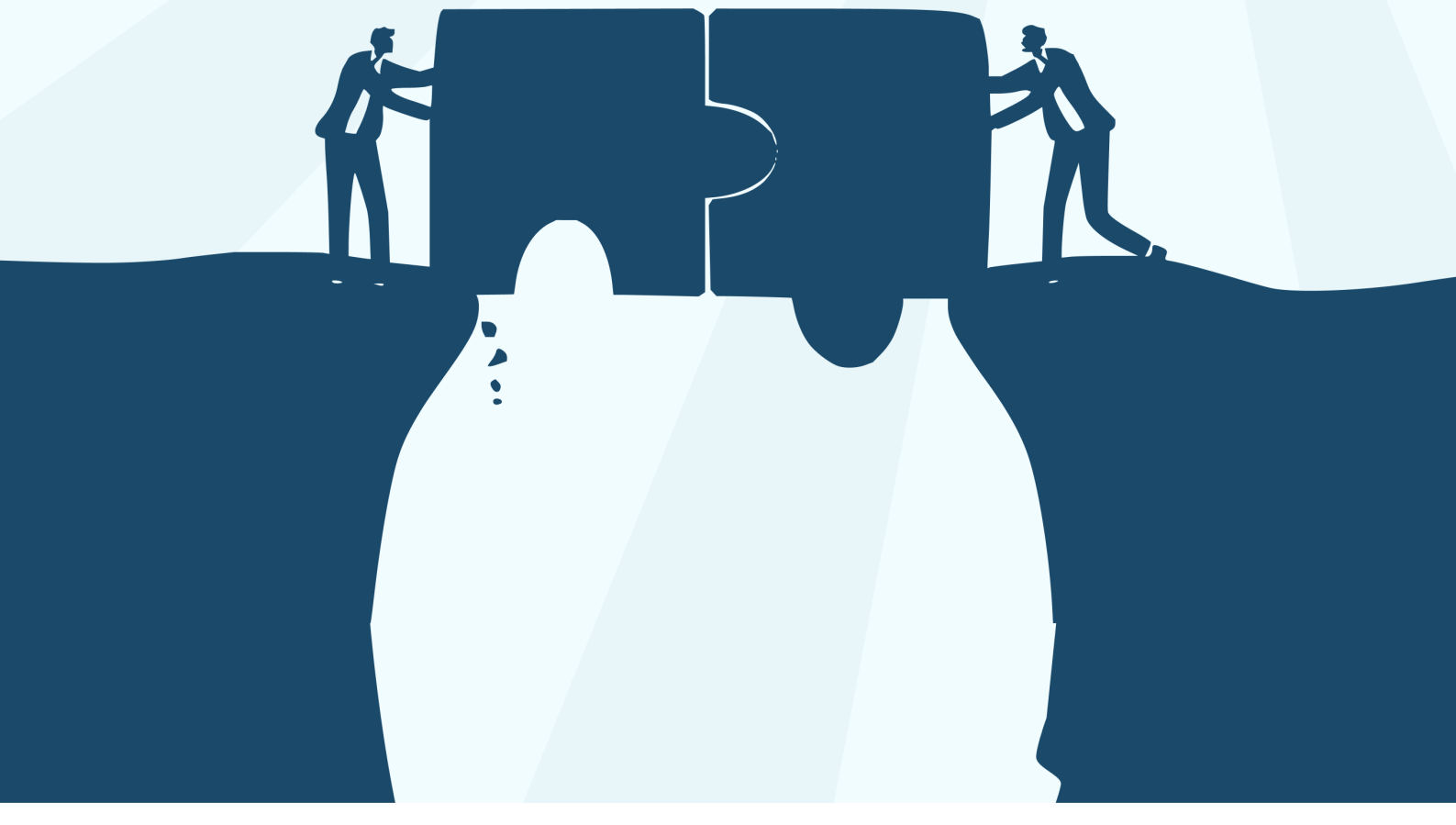
The students were first taken to the museum in Chetwood Hall where they saw many war relics and weapons. Next, they were guided to Khetarpal Block. The students also visited the war memorial there and were told that the data of all the martyrs of the nation is preserved and updated regularly. The students also got to know about the battalions stationed there currently and then came the delightful moment for them when they saw the horses which are used for the training of the cadets. The students were provided invaluable knowledge along with career counseling at the academy by Mr Piyush Behania. Finally, the students gathered at Major Vikram Batra mess for refreshments. It was a truly an unforgettable experience for everyone on this educational tour and the students were overwhelmed with everything they got to see, learn, and understand there.

SDG 17 aims to strengthen global partnerships and mobilize resources to achieve all Sustainable Development Goals. It promotes collaboration across governments, private sectors, civil society, and international organizations. The goal encourages technology transfer, capacity building, and equitable trade systems, especially for developing countries.

It also focuses on improving data collection, policy coherence, and financial support for sustainable initiatives.

By fostering inclusive and multi-stakeholder cooperation, SDG 17 ensures that progress is shared and no one is left behind.

PARTNERSHIPS FOR THE GOALS



ICASDGAI-2025: Global Ideas Converge



Uttaranchal Institute of Technology, Uttaranchal University, Dehradun hosted the 1st International Conference on Holistic Approaches to Achieve Sustainable Development Goals with Artificial Intelligence (ICASDGAI-2025) during 14-15 January, 2025. The event was inaugurated by Chief Guest Shri Pankaj Gupta, accompanied by University Shri Jitender Joshi, President, Ms Ankita Joshi, Vice- President, Prof (Dr) Dharam Buddhi, Vice- Chancellor, Prof (Dr) Rajesh Bahuguna, Pro Vice- Chancellor and Prof (Dr) Sumit Chaudhary, Director UIT. The opening ceremony commenced with a traditional lamp-lighting ritual, followed by the welcome address by the Director and convener of the conference. Mr Anchit Bijalwan and Ms Nikarika Kapoor, the keynote speakers also shared their insights.

The conference involved renowned researchers, academicians, and industry leaders from around the globe, who engaged in discussions on innovative applications of artificial intelligence for achieving sustainable development goals. Highlights of the conference included the release of conference souvenirs and the recognition of outstanding contributions through best paper awards. After the inaugural session, participants of the conference were taken to their respective rooms for the paper presentations. First day sessions ended by 5 pm. Many presentations were scheduled for the second day, along with the plenary sessions and keynote address. The valedictory session started at 2:30 pm, on 15 January 2025 - and was attended by prominent dignitaries who applauded the efforts of the participants and the organizers alike. ICASDGAI-2025 reaffirmed Uttaranchal University's commitment to driving innovation and addressing global challenges through interdisciplinary collaboration.

Exploring the Cosmos:
Students Engage with Gaia Space Founder



Department of Aerospace Engineering, Uttaranchal Institute of Technology, Uttaranchal University organized an Interactive session with the founder of Gaia Space Pvt. Ltd Mr. Subham Haldar on 20 March 2025. By measuring around two billion objects, the international satellite astrometry mission Gaia is creating the most accurate and comprehensive three-dimensional map of our Galaxy. With extensive specialised experience in supplying labour to a wide range of businesses, SPACE International is a professionally run recruitment firm. Since his founding in 2005, he has led the way in hiring people across the world.

The Ministry of Labour, Government of India, has granted him a licence.

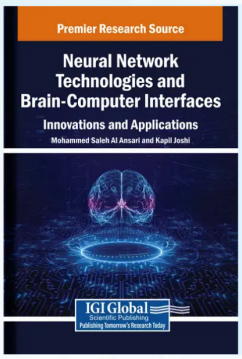
Such interactive session offers a unique platform to improve student knowledge and abilities in the fascinating field of space, regardless of the level of experience whether the student is a beginner interested in learning the fundamentals of space operation or a professional looking to go further into sophisticated space applications. Prof (Dr) Sumit Chaudhary, Director UIT inaugurated the event with his opening remarks. On this occasion, Dr Sachin Srivastava, HoD Aerospace Engineering, Dr Sanjeev Kumar Joshi, HoD Mechanical Engineering, Dr S P Gairola, Mr Divij Arora and the event coordinator Mr Manhar with all other HoD and faculty members were present.

UIT HIGHLIGHTS



BOOKS PUBLISHED BY UIT FACULTY MEMBERS

Dive into the rich spectrum of thought and creativity brought to life by our faculty authors. From evocative poetry to hands-on technical guides, these publications showcase the intellectual depth of our department.



Neural Network Technologies and Brain-Computer Interfaces: Innovations and Applications

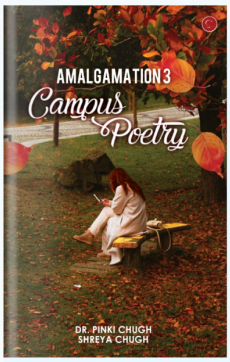
- by Dr. Kapil Joshi

Explores cutting-edge neural systems and BCI advancements, bridging the gap between human cognition and intelligent machines.



Advanced Technologies for Realizing Sustainable Development Goals: 5G, AI, Big Data, Blockchain, and Industry 4.0 Application
- by Dr. Kapil Joshi

Showcases how emerging technologies can accelerate progress across SDGs with smart, scalable solutions for real-world impact.



Amalgamation 3 : Campus Poetry

- by Dr. Pinki Chugh

A stirring anthology capturing moments of reflection, emotion, and cultural nuance—woven through lyrical prose and poetic finesse.



Foundation of Python Programming Concepts

- by Dr. Rajiv Kumar

An accessible yet thorough introduction to Python programming, perfect for beginners and a smart companion for educators seeking clarity and structure.



ITI Information & Communication Technology System Maintenance (ICTSM) – First Year: All-in-One Master Guide
- by Mr. Jintendra Kumar Gupta

A complete resource tailored for ITI students, blending foundational ICT concepts with practical guidance to excel in system maintenance.

GATE



Mr. Gaurav Singh Negi
Assistant Professor
ECE



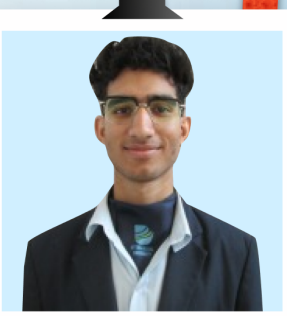
Mr. Jitendra Kumar Gupta
Assistant Professor
CSE



Mr. Sunil Sharma
Assistant Professor
ECE



Mr. Arpit Goel
Assistant Professor
CSE



Prateek Bhatt
BTech AE, 6th Sem



Pritesh Patel
BTech CSE, 8th Sem



Divesh Mittal
BTech CSE, 8th Sem



Dorili Sangtam
BTech CE, 8th Sem



Abhay Dhasamana
BTech AE, 6th Sem

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b) Computer Applications

- ↗ **BCA** *from UU*
- ↗ **Bachelor of Artificial Intelligence** *from UTS*

(1 year at UU & 2 years at UTS)

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citibank

United States



Abhinav Ankur

forma

United States



Ishan Tiwari

Lisk

Germany



Yash Gambhir

Microsoft

Australia



Akshaya Vangara

Germany



Pranjal Sharma

globalpayments

United States



Rohan Jaiswal

Deloitte.

United States

UNITED WE STAND



INTERNATIONAL COLLABORATIONS & TIE-UPS

Uttaranchal University proudly collaborates with prestigious international institutions through its Student Exchange Programs, offer an exclusive Dual Degree Program (2+2) for B.Tech. students empowering them with world-class education and international exposure.

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SUL ROSS

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Hanoi University of Mining and Geology

ADA KENT ÜNİVERSİTESİ

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Shawnee State UNIVERSITY

PETROLEUM TECHNOLOGICAL UNIVERSITY UFA STATE



Built Through Grit

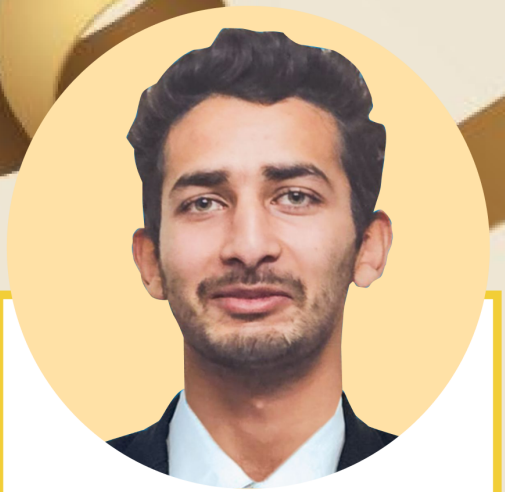




Celebrating Every Root



Shimmering



NAMAN KOTNALA

BOSCH



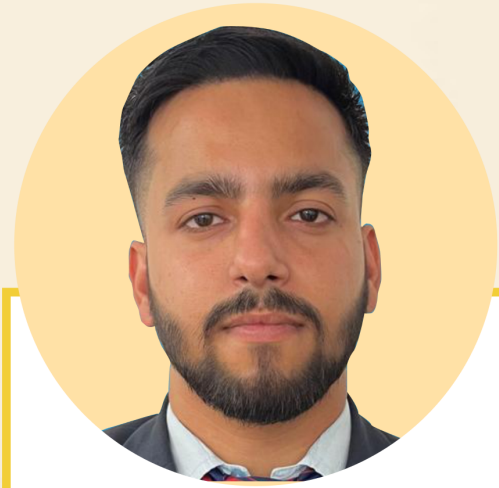
HARDIK CHADHA

SLK



VISHAL KATTNA

Tech Mahindra



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Uttaranchal Institute of Technology

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with Fresher Students



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Sr. Environmental officer in USA based world renowned cruise line



Mr. Nikhil Nanda
Microsft Dynamics Solution Architect - Europe Capability



Mr. Abhinav Ankur
Fullstack Software Developer
Tech stack - MERN, JavaScript,

Driven



Dr. Kapil Joshi
Research Methodology



Divyam Bora
Machine Learning ML



Vimal Singh Tatrari
Machine Learning ML



Villa Lakshmi Satish Kumar
Introduction to Machine Learning



Badeti Siva Manikanta
Introduction to Machine Learning



Harsh Singh
Cloud Computing
Python for Data Science

Minds



Mr. Mohit Kumar
Systems and Usable Security
Cryptography and Network Security



Adarsh Kumar Singh
Cloud Computing
Python for Data Science



K Sri Manjunadha
Introduction to Machine Learning



Abhishek Ranjan
Data Analytics with Python



Krishna Noutiyal
Systems and Usable Security



Himanshu Bisht
Introduction to Machine Learning

MORE THAN

OUR CHRONICLES OF SUCCESS



Prof (Dr.) Sumit Chaudhary's project on - "Optimising Rice Production in Uttarakhand through Soil Fertility Analysis" is granted by UCOST



Prof (Dr.) Rajiv Kumar Gill, BTech CSE, promoted to Senior Member - IEEE.



Dr. Yashwant Singh Bisht received "Excellence in Research of the Year Award" on 23rd November 2024.



Dr Kapil Joshi's patent - "Automated Attendance System for Multiple Students using Neural Network" got granted by GOI.



Mr Abhishek Verma won the "Best Paper Award" for 10th World Congress on MHMT'25



Dr Kapil Joshi recieved "The Best Teacher Innovation Award" for contribution in Academics and Research.

PROFESSORS

UIT'S KNOWLEDGE CORE



UIT Faculty members received Research Incentives during "Parbodhnam 2025".

Prof. (Dr.) Sumit Chaudhary (Director)
Dr. Madhu Kirola (HoD)
Prof. (Dr.) Sanjeev Kumar Shah (HoD)
Prof.(Dr) Sachin Srivastava (HoD)
Prof.(Dr.) Rajiv Kumar Gill
Prof. (Dr.) B.S. Rawat
Dr. Devendra Singh (HoD)
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Dr. Gopal Krishna
Dr. Shagufta Praveen
Dr. Jaspreet Hira
Dr. Ruby Pant
Dr. Alok Kumar
Dr. Yashwant Singh Bisht
Dr. Pooja Rawat
Dr. Narinder Kumar
Dr. Ajay Tiwari
Dr. Surya Prakash Gairola
Dr. Samrity Jalota



23 PhDs, And Still Counting!



From Chief Editor's Desk

It gives me great pleasure to present the second edition of the UIT Newsletter — a reflection of our institute's rich learning environment, enthusiastic student engagement, and unwavering drive towards innovation and growth. This edition is thoughtfully curated around the Sustainable Development Goals (SDG) theme of UNESCO, echoing our commitment to responsible and inclusive progress in education and beyond.

I express my sincere gratitude to Prof. (Dr.) Sumit Chaudhary, Director, UIT, for his constant motivation, guidance, and for entrusting us with the responsibility to document and share the milestones of UIT through this platform. His vision continues to inspire us to aim higher and do better.

A special note of appreciation goes to the creative minds behind the design and presentation of this edition — Animesh Dabral, President, Literary Club, and Akshit Gupta, Secretary, Literary Club. Their eye for intricate detailing, layout aesthetics, content polishing, and seamless arrangement of visuals and text have truly elevated the quality and appeal of this edition.

To all our readers, especially students, I would like to say: Let this newsletter not just be a collection of events, but a reminder that each of you plays a vital role in shaping the story of UIT. Stay passionate, stay curious, and let your values guide you as you move forward in your academic and personal journey.

Heartfelt thanks to every contributor, faculty member, and student who helped bring this edition to life.

Warm regards,
Dr. Pinki Chugh
Chief Editor, UIT Newsletter

PALETTE & PIXELS

YES, I HELPED DESIGN THIS PAGE. AND YES, I'M WRITING ON IT. WILD, RIGHT?



IF YOU'RE READING THIS, YOU'VE OFFICIALLY STEPPED INTO THE DESIGNER'S LAIR—WHERE LAYERS ARE LOVINGLY NAMED, GRIDS ARE ARGUED OVER LIKE ANCIENT PHILOSOPHY, AND SDGS FIND THEIR VOICE IN GRADIENTS, VECTORS, AND PERFECTLY TIMED SHADOWS.

THIS NEWSLETTER? IT DIDN'T LAYOUT ITSELF. EVERY SECTION WAS FORGED IN THE FIRES OF PHOTOSHOP PRECISION, FIGMA FINESSE, AND THE KIND OF ILLUSTRATOR PATIENCE ONLY CAFFEINE COULD FUEL. DESIGNING ISN'T JUST ABOUT AESTHETICS—IT'S ABOUT EMOTION. AND IF THIS PAGE SPARKED EVEN THE TINIEST SMILE, I'LL CALL THAT A VICTORY LAP IN HELVETICA.

THANKS FOR FLIPPING THROUGH OUR BEAUTIFUL CHAOS. YOU'RE PART OF THE VISUAL SYMPHONY NOW.

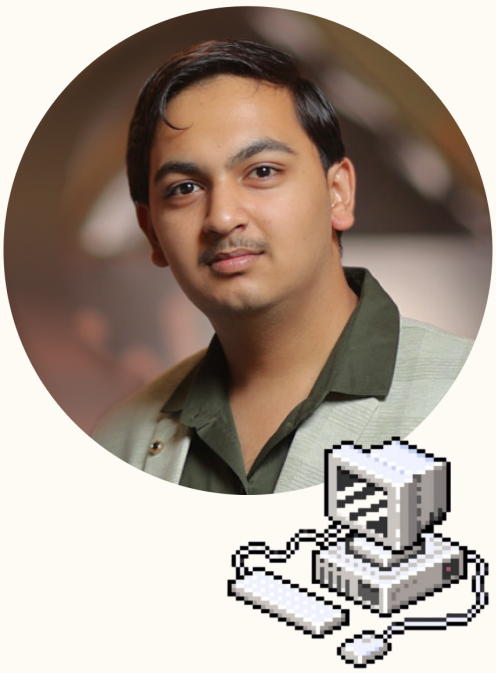
—ANIMESH DABRAL
PRESIDENT, LITERARY CLUB

HELLO FROM THE BOTTOM OF THE PAGE. LITERALLY.

I WAS TOLD TO 'KEEP IT MINIMAL'—SO I ADDED 56 PERFECTLY-ALIGNED ELEMENTS AND MADE THEM ALL SPEAK IN VISUAL HARMONY. IF YOU NOTICED THE LAYOUT IS CLEAN, SMOOTH, AND ODDLY SATISFYING... YOU'RE WELCOME. IF YOU DIDN'T, WELL, IT'S OKAY—MY JOB'S DONE WHEN YOU DON'T NOTICE THE WORK AND JUST ENJOY THE FLOW.

BETWEEN LATE-NIGHT TWEAKS AND EARLY-MORNING NUDGES, THIS EDITION HAS BECOME MORE THAN A DESIGN TASK—IT'S A VIBE. ONE WE CRAFTED PIXEL BY PIXEL, GRID BY GRID.

THE STORIES OF UIT DESERVE NOTHING LESS. HAPPY READING.



—AKSHIT GUPTA
SECRETARY, LITERARY CLUB



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