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VOLUME XVIII – ISSUE IV



2 OCTOBER HIGHLIGHTS

A month of growth with cultural engagement, skill-building workshops, and academic development.

12 NOVEMBER HIGHLIGHTS

Innovation and industry insights took center stage with Pharma Day, IEEE Conference, and major recruitment drives.

14 DECEMBER HIGHLIGHTS

Advancements in technology and career exploration through 5G research, the Career Summit, and impactful workshops.



Meet our Team

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Swachh Bharat Diwas : Swabhav Swachhata - Sanskar Swachhata



On the occasion of the 10th Swachh Bharat Mission, DIT University's NCC Unit organized a Community Awareness Program to promote cleanliness and sustainability on 2nd October,2024. Led by Lt. (Dr.) Jabrinder Singh, the event involved 20 NCC Cadets and focused on raising awareness about the dangers of plastic pollution and the importance of waste management.

The cadets interacted with local residents, shopkeepers, vendors, and tourists in Dehradun to encourage responsible behavior and respect for cleanliness. They also shared information about Dehradun's Smart City initiative and Sustainable Development Goals (SDGs) related to clean water, sustainable cities, and responsible consumption.

Additionally, Lt. Jabrinder Singh and 20 DIT students participated in a Swachhata event at Rajbhawan, organized by the Uttarakhand Environment Protection & Pollution Control Board. During this event, Ms. Parijat Chatterjee, a 3rd-year BCA student, excelled in a questionnaire session and was awarded a cash prize of Rs. 11,000 by Lt. Gen. Gurmeet Singh, Hon'ble Governor of Uttarakhand.

The program successfully raised awareness and encouraged local residents to actively participate in maintaining a cleaner environment.

BUILD 4.0 and Design Thinking



BUILD 4.0 and Design Thinking Workshop, sponsored by Boeing and FITT (IIT Delhi), explored innovation, sustainability, and digital transformation in construction and entrepreneurship.

On October 3, 2024, a wave of innovation swept through DIT University as the BUILD 4.0 and Design Thinking Workshop unfolded, bringing together visionary minds to explore the intersection of technology, sustainability, and entrepreneurship. Sponsored by Boeing University Innovation Leadership Development and organized in collaboration with FITT (IIT Delhi), the session was a deep dive into the future of construction and manufacturing.

The event commenced with a heartfelt welcome by Prof. (Dr.) Naveen Singhal, who set the stage by emphasizing the transformative power of design thinking in shaping industries. His words underscored how partnerships like these empower young innovators with mentorship, industry exposure, and funding opportunities to bring groundbreaking ideas to life.

The first session, led by Mr. Jayant Babbar, Program Manager at FITT, IIT Delhi, introduced participants to the vast support ecosystem that FITT and Boeing provide to foster entrepreneurial ventures in high-impact sectors —from aerospace and green energy to social impact and electric mobility.

Building on this momentum, Ms. Shambhavi Singh, another key speaker, shed light on BUILD 4.0, a paradigm shift integrating AI, IoT, robotics, and automation into construction and manufacturing. She walked attendees through the role of digital technologies in creating smarter, more sustainable cities and infrastructure, redefining how industries evolve.

FACULTY DEVELOPMENT PROGRAM (FDP) Network Science: An Interdisciplinary Approach

The aim of the Faculty Development Program (FDP) on Science: An Interdisciplinary "Network Approach" conducted between 7th-11th October at DIT University was to give participants a thorough understanding of the rapidly developing field of network science. Because it can be used as a model for complex systems in various disciplines, such as computing, biology, finance, and social sciences, network science has become increasingly important in recent years. The FDP offers an interdisciplinary approach integrating theory with realworld applications in data-driven analysis, biological networks, and decision making by concentrating on the mathematical and computer representation of networks. These networks-also called systems-are found in nearly every facet of contemporary life, from interactions on social media to intricate biological processes. Comprehending these associations aids in improving decision-making, streamlining processes, and forecasting results.



The FDP specifically aimed:

I. To foster an understanding of core network science concepts, including fundamental terminologies, graph models, and mathematical principles.

II. To explore the structure and function of complex biological networks, and understand how network science can be applied in bioinformatics and genomics.

III. To develop hands-on skills in network analysis using Python and NetworkX, enabling participants to apply network science techniques through practical coding exercises.

IV. To develop interdisciplinary research capabilities by integrating network science into fields like economics, sociology, healthcare, and technology.

V. To master advanced graph models and algorithms, such as scale-free and small-world networks, and gain proficiency in key network analysis algorithms.



IX. To improve computational skills for network analysis, enabling participants to conduct largescale network simulations using Python and other programming tools.

X. To foster critical thinking in network visualization, developing the ability to effectively present and interpret network data through clear and impactful visual representations.

XI. To innovate in project implementation by applying network science techniques creatively to address novel research questions and practical challenges.

VI. To understand the dynamic behavior of real-world networks and learn to simulate and predict network evolution across various fields.

VII. To enhance problem-solving skills using network analysis, applying network science techniques to practical challenges like optimizing infrastructure, social networks, and disease Modeling.

VIII. To promote data-driven decision-making by incorporating machine learning and deep learning approaches into network science for improved decision-making.



Day First - 7th October 2024

The first day of the Faculty Development Program (FDP) on "Network Science: An Interdisciplinary Approach" commenced with a warm welcome by Dr. Bhavna in Visvesvaraya Block at 10:30 am. Dr. Bhavna, Faculty in-Charge TLC, DIT University, extended a warm welcome to all participants and dignitaries on behalf of the Teaching Learning Centre, highlighting network science's relevance in various domains.

Further, Prof. Hemraj Saini, Dean Faculty Affairs & Chairman-TLC, DIT University, described the FDP's timeline and objectives. He went over the main goals of the program, highlighting how it will aid in participants' understanding of network science and its multidisciplinary applications. Thereafter, the Hon'ble Vice Chancellor of DIT University, Prof. G. Raghurama, gave an insightful address. He emphasized the value of network science in world, emphasizing the today's connected need for interdisciplinary approaches for comprehending complex systems.



and thought-provoking remarks. She continued by going into further detail about the FDP's goals and highlighting how important it is to the advancement of multidisciplinary research and cooperation. To motivate the participants to actively participate and make the most of the program's resources, Dr. Bhavna emphasized the importance of network science as a flexible topic that crosses other disciplines. Her words of wisdom created a positive and upbeat atmosphere for the rest of the session, encouraging everyone to fully engage in the learning process.



He discussed issues including energy usage and the function of networks across many fields, comparing the interdisciplinary nature of network science to how the brain functions as part of the entire body. The comparison demonstrated how network science crosses conventional, domain specific boundaries, much like the brain's connectivity with the

body. Dr.Bhavna thanked Prof. G. Raghurama for his insightful



The first session commenced with a thorough introduction to network science by Prof. Hemraj Saini, who concentrated on the small-world phenomena and the idea of degrees of separation. He credited Stanley Milgram's (1969) experimental investigation of small-world networks, which revealed the surprisingly strong relationships among social networks through small degrees of separation, and traced the concept back to Frigyes Karinthy's (1929) theory of human interconnectivity. Prof. Saini went on to highlight the importance of exponentiation in network dynamics, describing how minor adjustments to network topologies can have significant implications on a larger scale. Additionally, he talked about the development of network science and cited the significance of comprehending complicated systems as stated by Stephen Hawking



Graph theory was used to model a variety of complex systems, including software, biological, geographical, social, and text-based networks.

In his exploration of social network research, Prof. Saini emphasized the use of graph models in the analysis of these complex relationships. The creation of network maps and the universality of network properties were of the main drivers of two the development of network research,

according to him. He talked about how power-law distributions are crucial to comprehending how these networks behave. Graph mining and learning with network models were discussed in detail at the end of the pre-lunch session, demonstrating their usage in data analysis and prediction

Prof. Hemraj Saini led a discussion on generic patterns in networks and the significance of community detection in locating clusters or groups of nodes with comparable properties to wrap up the post-lunch session. He highlighted the categorization of nodes according to their distance, closeness, betweenness, and eigenvector—important metrics used to comprehend the effect and position of nodes within a network—when he described techniques for discovering similarities inside networks.

To explore how various networks might be examined in terms of information propagation, robustness, and link prediction, Prof. Saini created the idea of network comparison. He went on to stress the significance of selecting the right network model for the study, based on the circumstances, whether it be a multi-graph or a simple graph. After then, the discussion shifted to various network kinds, including directed and undirected networks, as well as edge and node properties, which provide networks more levels of information.

Additionally, Prof. Saini invented temporal networks, which change over time, and multiplex networks, which include different types of edges connecting the same nodes

In order to analyze how nodes are connected inside real-world networks, participants learned about node attributes including outdegree, indegree, and total degree as well as related concepts like degree distribution and degree sequence. To demonstrate how these network models relate to real-world situations, examples from the internet, the World Wide Web, mobile phone networks, email bipartite graphs, and full graphs were covered. In closing, Prof. Saini covered measuring networks, evaluating random graph models, and illustrating how network science concepts are used in communication systems with examples such as MSN Messenger. At the end of the session, Dr. Bhavna expressed her heartfelt gratitude to Prof. Hemraj Saini for his insightful facilitation, which improved the participants' comprehension of the network science.

Day Second – 8th October 2024

Dr. Vishakha Kaushik, Assistant Professor, School of Physical Sciences, DIT University welcomed all the participants on the second day of the FDP, briefed them about Prof. (Dr.). Millie Pant, IIT Roorkee, and invited Prof. Pant to the podium.

Dr. Millie's session provided a thorough examination of the development of neural networks into effective decision-making Dr. Millie introduced the early tools research of McCulloch and Pitts' neuron model (1943), which laid the groundwork for contemporary neural networks. This covered the basics of neural networks from the 1950s to the 1980s. The first machine learning breakthrough was achieved with Frank Rosenblatt's perceptron (1957), the first model to learn using a single-layer neural network. Prof. Dr. Millie discussed



how neural networks experienced a boom from the 1980s to the 2000s thanks to important discoveries like Adaline (1960) by Widrow and Hoff and the limitations of perceptrons discovered by Minsky and Pappert (1969). This era's primary issue was the XOR problem, which needed hidden layers to solve yet proved difficult to train such networks. Backpropagation (BP) was subsequently introduced as a solution to this issue. Neural networks gained practical application when Rumelhart and Hinton (1986) independently developed BP and showed that it could train neural networks

The discussion subsequently shifted to the 2000s–2010s, sometimes referred to as the "decade of deep learning," during which time neural networks saw tremendous development. The advent of Convolutional Neural Networks (CNNs) during this timeframe allowed neural networks to analyze visual data using methods like weight sharing and pooling, effectively endowing them with "vision." Furthermore, the ability to analyze data sequences was introduced by Recurrent Neural Networks (RNNs), which paved the way for advancements like Long Short-Term Memory (LSTM) networks and contemporary Large Language Models (LLMs). Neural networks, perceptrons, supervised, unsupervised, and reinforcement learning models were also covered. These were outlined as the foundation of applications of Artificial Intelligence (AI), especially in contexts of decision-making where deep learning models are applied to identify patterns, anticipate outcomes, and guide strategic choices.

A discussion of the most recent issues and approaches in the field brought the event to a close, highlighting how neural networks are always evolving to take on increasingly difficult tasks in practical applications. This pre-lunch session provided a solid foundation in the history, development, and current state of neural networks, setting the stage for their application in decision-making.

The post-lunch discussion by Prof. Dr. Millie examined the development of Natural Language Processing (NLP) models, moving from early methods based on grammatical principles to statistical models. The switch to more sophisticated techniques was completed in 2017 with the release of transformers, which completely changed natural language processing (NLP) by processing data sequences in parallel and significantly increasing performance and efficiency. After that, the discussion focused on the models that were available and was based on transformer architecture, including the GPT-x models, BERT, RoBERTa, ELECTRA, BART, and Google BARD. Prof. Dr. Millie talked about the importance of transformers in contemporary AI, especially for managing big datasets and obtaining cutting-edge outcomes in natural language processing (NLP) tasks.



An extensive description of transformer blocks was then provided, outlining the encoder and decoder, which are their two main The constituents. also participants investigated foundation models, which are generalpurpose models that may be used for a variety of tasks in a variety of areas. Using both unimodal and multimodal data, the session explored the history of Generative AI as it relates to Computer Vision (CV) Natural and Language Processing (NLP). Prof. Dr.

Millie underlined how effective transformers are at combining and processing various data sources. Traditional vision activities and the development of higher-order abilities, such as reasoning and context awareness, were also covered in the session. Through the use of multimodal data, participants learned how to modify foundation models to address practical issues.

At the end of the session, Dr. (Lt.) Brajlata Chauhan, Associate Professor, EECED, DIT University expressed heartfelt gratitude to Prof. (Dr.) Millie for her insightful and comprehensive presentation on Deep Learning Networks for Decision Making. Dr. (Lt.) Chauhan acknowledged the depth of knowledge shared, particularly the engaging discussion on the evolution of neural networks, from early perceptron models to modern advancements like CNNs, RNNs, and LLMs. She emphasized how the session shed light on the transformative role of deep learning in decision-making processes across various sectors. Prof. (Dr.) Hemraj Saini along with Dr. (Lt.) Brajlata Chauhan felicitated Prof. Dr. Millie with a certificate and memento after the vote of gratitude was cast, recognizing hersignificant contribution to the Faculty Development Program. Prof. Saini appreciated Prof. (Dr.) Millie for her proficiency and dedication to expanding our understanding of Deep Learning Networks for Decision Making. 14

<u> Day Third – 9th October 2024</u>

The third day of the program commenced with a welcome address by Dr. Vishakha Kaushik, Assistant Professor at the School of Physical Sciences, DIT University. During her introduction, Dr. Kaushik provided a brief overview of Prof. (Dr.) Tiratha Raj Singh's impressive profile, highlighting his expertise in the field of systems biology and bioinformatics. She emphasized his significant contributions to research in complex biological networks, personalized medicine, and drug discovery.



Prof. (Dr.) Tiratha Raj Singh commenced the session with an overview of biological networks and systems biology, introducing participants, to the interdisciplinary field that integrates biology mathematics and computer science to understand complex interactions within biological systems. He went into detail on bioinformatics' important contributions to computer-aided drug design (CADD), personalized medicine, and drua the development process. Dr. Singh discussed the importance of systems biology in the current understanding of biological networks by citing

notable researchers like Hiroaki Kitano and Edison T. Liu. He introduced the four-step systems biology paradigm (influenced by Leroy Hood, 1999): gathering a sizable amount of experimental data:

- Collection of a large set of experimental data,
- Proposal of a mathematical model,
- Accurate computer solutions of mathematical equations,
- 17 Assessment of the model's quality by comparing the numerical simulation with experimental data.

The introduction of the Systems Biology Triangle idea demonstrated the connection between computational modelling, biological interpretation, and experimental data. Dr. Singh continued by talking about the dynamics and organization of biological networks, from big genomic systems to smaller ones. In light of their roles in many biological processes, he underlined the significance of comprehending biological pathways and networks. Methods for identifying biological networks and estimating their parameters were described; they included the analysis of composite networks, or heterogeneous molecular networks, which incorporate several biological data types.

After outlining some of the key characteristics of biological networks, like their robustness, adaptability, and modularity, the field's difficulties were discussed. These included the difficulty of integrating data and the requirement for better computer models in order to effectively describe biological systems. Prof. (Dr.) Tiratha Raj Singh continued the discussion by exploring the gene regulatory system and outlining its significance for comprehending how genes are expressed and how that affects cellular processes.

In Transcriptional Regulatory Networks (TRNs), he proposed the notion of hierarchy, highlighting the ways in which many regulatory mechanisms at different levels add to the intricacy of biological systems. Prof. Singh talked on the basic data types that were employed in these analyses, such as the several network representations that were utilized to visualize molecular interactions, such as Cyboscape. He highlighted several key types of networks, such as:

- Protein-protein interaction networks
- Signal transduction networks
- Metabolic networks
- Social network analysis

He went into further detail about the usefulness of these networks in fields like interaction modeling and rumor detection, demonstrating how methods from network science may be used to investigate social phenomena. After then, the discussion turned to network analysis and covered ideas like the Erdős-Rényi (ER) model and network motifs. Professor Singh presented algorithms and computational tools used in the analysis of biological networks and talked about several research publications that helped to clarify these ideas. He introduced participants to several servers and software tools, including:

MAVISTO: A tool for visualizing and analyzing biological networks. MFINDER: An algorithm for identifying network motifs. mDraw: A tool for drawing and editing networks.

Prof. Singh provided participants with useful information and resources to investigate network analysis in their study by going over these instruments and approaches. He encouraged attendees to use these resources in their own research by stressing the growing significance of computational tools in the field of systems biology. This pre-lunch session reinforced the importance of interdisciplinary approaches in furthering biological research by giving participants a deeper knowledge of the complex relationships found in biological networks and the methodologies used to evaluate them.

The post-lunch discussion after the enlightening presentations concentrated on real-world network analysis applications. Two practical assignments were given to the participants to investigate protein-protein interactions and utilize recognized databases and instruments for network motif analysis. In the first Assignment, participants were to look into cancer-related protein-protein interactions using the STRING database. A well-known tool for predicting and studying protein interactions is the STRING database, which combines several kinds of data to present an all-encompassing picture of known and expected interactions. In the second assignment, the participants were directed to investigate patterns inside a biological network using FANMOD, a program for finding and examining network motifs.

This hands-on session aimed to provide participants with practical experience in: Utilizing bioinformatics databases like STRING and KEGG for biological research. Understanding the methodology for identifying and analyzing protein interactions. Exploring network motifs and their biological significance using FANMOD.

were encouraged Participants to collaborate and share insights as they navigated through the tools and data, reinforcing their understanding of network analysis in the context of cancer research. The session concluded with a discussion on the results, challenges faced during the assignments, and the implications of the findings in the broader field of systems biology. Prof. (Dr.) Hemraj Saini concluded the session with a vote of appreciation, thanking participants for their active participation and Prof. (Dr.) Tiratha Raj Singh for his insightful session. Prof. Saini felicitated Prof. (Dr.) Tiratha Raj Singh with a certificate and memento.



Day Fourth – 10th October 2024

Dr. Bhavna welcomed everyone on the fourth day of the FDP, introduced Dr. Suman Saha to the participants, and invited him to the podium. Dr. Suman Saha started his interesting discussion by going over the differences between the terms "complex" and "complexity," highlighting how these terms relate to different networks that form our social systems. He used examples from political and educational institutions to demonstrate these points, emphasizing how knowledge of these networks can shed light on their interdependencies and functionality



Dr. Saha gave examples of how network science is being used in the real world, such as Facebook's social graph, which illustrates how people are related to one another. He talked about the architecture of financial networks, concentrating in particular on the complex commercial relationships seen in the US biotech sector. This investigation highlighted how important networks are to enabling communication and business across a range of industries. Dr. Saha went into further detail the factors-the about two primary advancement of social network research and

the creation of graph theory—that have led to the emergence of network science. Through the application of these fundamental concepts, participants were able to comprehend the workings of a variety of networks, such as communication networks, ecological networks, and even networks that show the interactions between players in films. The aspects of network science, especially its applicability in economic contexts, were also covered throughout the seminar. Using Google as an example, Dr. Saha showed how network science influences the company's algorithms and decision-making procedures. He also looked into the use of network science in biological contexts, including the mapping of networks related to human disease and its application to military planning and counterterrorism initiatives.

To reinforce the theoretical concepts discussed, Dr. Saha engaged participants in practical exercises that applied their knowledge to various systems. The techniques they practiced included creating ranking systems, comprehending HITS (Hyperlink-Induced Topic Search), locating hubs, and rotating matrices. The idea that communities themselves might be seen as complex networks was further reinforced by the participants' exploration of ideas such as community detection, the principles of power laws, and small-world networks.

During the post-lunch discussion, Dr. Saha presented a practical task that makes use of the Python NetworkX package. A NetworkX.ipynb file stored on Google Colab was given to participants, enabling them to engage with the library directly in a collaborative setting. Writing code to define nodes and edges, look at graph components, and assess different graph attributes were all part of the task. As part of the assignment, participants discovered how to use ranking algorithms, graphs, and community detection within the networks they built to show their findings. In order to comprehend more intricate links among the data, they also had the chance to work with multigraphs. By the end of the session, participants had gained their understanding of theoretical ideas while implementing them in a coding context by gaining hands-on experience with utilizing NetworkX for network Participants analysis. also gained insightful knowledge and useful skills from this all-encompassing approach,



enabling them to investigate the possibilities of network science in their academic and professional pursuits. At the end of the session, Dr. Bhavna delivered a vote of thanks, expressing gratitude to Dr. Saha for his insightful session.

<u>Day Fifth – 11th October 2024</u>

On the last day of the program, the project was conducted on Network Science focused on analyzing a dataset downloaded from networkrepository.com instructed by Dr. Suman Saha. The main goal was to use Google Colab to put the theories and techniques that participants had acquired throughout the program into practice.

The first step for the participants was to NetworkRepository.com to find a browse dataset that fit their study goals and interests. After being selected, they downloaded the dataset and created a Google Colab workspace analysis. Several aroup coding and for procedures were engaged in the analysis process, such as cleaning and organizing the data through data preprocessing, building a network graph with the help of the NetworkX library, and producing visualizations to show the structure of the network. To gain an understanding of the behavior of the network,



participants also computed important metrics such as degree distribution, centrality measures, clustering coefficients, and community detection. They did this by using pertinent algorithms.

Overall, the project gave participants invaluable practical experience that strengthened their analytical abilities and reinforced the theoretical knowledge they had learned during the FDP. Working with real-world datasets from NetworkRepository.com enhanced their knowledge of network science and opened new avenues for investigation into a variety of datasets and sophisticated algorithms, thereby fostering future advancements in the field.

Part 2: Valedictory Session

The One-Week Faculty Development Programme on "NETWORK SCIENCE: AN INTERDISCIPLINARY APPROACH" concluded with a valedictory session. Together with the presence of all the participants and TLC coordinators, the session was facilitated by Dr. Suman Saha, JU, Anoopshahr, Prof. (Dr.) Hemraj Saini, Dean Faculty Affairs & Chairperson, TLC, and Dr. Bhavna, Faculty-in-charge, TLC. Dr. Bhavna presented an extensive summary of the one-week program. She summarized each session and highlighted the insightful information that the respected resource persons provided. After the program overview, Dr. Bhavna invited feedback from participants.

<u>Faculty participants discussed their experiences and how the course will</u> <u>improve their ability to teach (Live Feedback):</u>

Dr. Nitin K. Kamboj, Assistant Professor, SoPS expressed his gratitude for the program and praised the organizing team's work. He emphasized the high calibre of the talks and the depth of information the resource persons shared. He did, however, make a suggestion for further initiatives, extrapolating as to whether it would be possible to have a single resource person oversee the entire FDP. He pointed out that this might offer a steadier stream of information and a more in-depth look at particular subjects.



Dr. (Lt.) Brajlata Chauhan, Associate Professor, SoET also conveyed her gratitude for the FDP. She highlighted that the sessions were informative and well-run, and she praised the program's extensive framework as well as the wide range of topics covered. After the project, all participants were awarded certificates for completing the FDP on Network Science. The certificates were presented by Dr. Suman Saha, Prof. (Dr.) Hemraj Saini, and Dr. Bhavna, who acknowledged the participants' hard work and dedication throughout the program

Visit To Purukul

Objective: The primary objective of the visit to the Purukul Water Treatment Plant was to provide students with a practical understanding of the processes involved in making water safe for consumption. This visit aimed to enhance knowledge about water treatment technologies, the importance of water quality, and the relevance of sustainable water management.

Brief Description: The Department of Civil Engineering organised a visit to the Purukul Water Treatment Plant on 19th October 2024. This visit offered students an opportunity to learn about the various stages of water treatment, including sedimentation, aeration, and disinfection, as well as the technologies and machinery used in these processes. The students also gained insights into the significance of clean water, the challenges of maintaining water quality, and the impact of these processes on sustainable development, particularly in line with Sustainable Development Goal 6 (SDG 6).





Cleanliness is The Key

Learning Outcome: This visit provided a hands-on learning experience in water treatment processes, emphasising the importance of sustainable water management. Students could connect theoretical knowledge with practical applications, fostering a deeper appreciation for the critical role of water treatment plants in public health and environmental sustainability.

The Virasat Conference

The Virasat Conference 2024, held on October 24, brought together experts and students to drive sustainability and combat single-use plastics through innovation and collaboration.

The Virasat Conference 2024 championed sustainability, emphasizing reducing carbon footprints and tackling single-use plastics through innovation and collaboration. Serving as a hub for knowledge exchange, it united stakeholders from academia, government, and industry to address pressing environmental challenges.

Held on October 24, 2024, as part of the Virasat Heritage Festival, the conference welcomed dignitaries from the Government of India, the Uttarakhand Pollution Control Board, and esteemed institutions like UPES and Devbhoomi University. A standout feature was Student Presentations from DIT University's School of Chemistry and UPES, guided by Dr. Naveen Singhal, highlighting sustainability-driven research. Expert-led panel discussions, featuring Dr. Ekta Singh (School of Design) and Dr. Naveen Singhal, offered actionable strategies for reducing plastic waste and fostering sustainable practices.

The conference sparked meaningful discussions on the environmental impact of emphasizing single-use plastics, both individual and collective responsibility. It fostered collaborations between academia, government, and industry, paving the way for sustainable initiatives. Students played a key role, presenting innovative solutions and deepening their engagement with environmental issues. Panel discussions provided practical strategies, inspiring attendees to adopt sustainable habits and drive positive change.





The Filmmaking Workshop

The Filmmaking Workshop, held on October 25-26, 2024, was an inspiring journey into the world of cinema, designed to equip aspiring filmmakers with both foundational knowledge and hands-on experience. Led by acclaimed filmmaker Mr. Abhay Simha, the workshop unfolded as an interactive space where creativity met technique.

Participants explored every stage of the filmmaking process—pre-production, shooting, and post-production—while actively collaborating and experimenting with different styles. The highlight of the workshop was the production of short films, where attendees transformed their ideas into compelling visual stories.

Beyond technical proficiency, the workshop fostered a deeper appreciation for storytelling, teamwork, and the creative challenges of filmmaking. With newfound confidence and refined skills. participants left the session not just as learners but as budding storytellers, ready t a^24 bring their cinematic visions to life.

Digital/Traditional Painting

The competition celebrated artistic expression, inspiring creativity and innovation across both digital and traditional mediums.

Artistic expression took center stage on October 28, 2024, as participants showcased their talent in both digital and traditional painting. The event brought together a diverse mix of artists, each exploring unique themes and pushing the boundaries of creativity. A major highlight was the masterclass on character design by Mr. Rishijeet Singh, where attendees gained expert insights into crafting compelling visual narratives.

The competition fostered an environment of learning and collaboration, with students of various skill levels sharing ideas and techniques. After an inspiring showcase of talent, Lakshyaa Mall (B.Des VGA, 4th year) claimed first place, followed by Somya Khanduri (B.Des VGA, 1st year) in second, and Sakshi Singh (B.Des VGA, 2nd year) in third.

Beyond the competition, the event encouraged participants to experiment with their artistic styles and refine their skills. By blending creativity with technical expertise, it provided a platform for young artists to grow, innovate, and bring their visions to life.

november

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THE PHARMA DAY

Pharma Week, celebrated on November 20, 2024, at DIT University, brought together professionals and innovators to discuss advancements shaping the future of healthcare.



Pharma Week isn't just another industry gathering —it's a dynamic platform where researchers, executives, policymakers, and healthcare professionals come together to drive meaningful change in the pharmaceutical world. Celebrated at DIT University on November 20, 2024, the event aimed to spark conversations, share breakthroughs, and foster collaborations that could redefine the future of healthcare.

Pharma Week featured dynamic discussions, keynotes, and workshops, offering insights into industry trends, innovations, and business growth. Beyond a conference, it sparked lasting change in the pharmaceutical and healthcare sectors.





IEEE 2ND INTERNATIONAL CONFERENCE

The IEEE 2nd International Conference on AKGEC 2024 (November 21-23) fostered global collaboration on green energy and computing, featuring groundbreaking research and expert discussions.

Innovation and sustainability took center stage at the IEEE 2nd International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC 2024), held from November 21 to 23, 2024, at Ajay Kumar Garg Engineering College, Ghaziabad. The conference served as a hub for researchers, educators, and professionals to explore emerging challenges and advancements in green energy and computing.

Among the distinguished participants was Dr. Rajiv Pandey from DIT University, who presented his research paper, "Optimized Baffle Design for Augmented Thermal Transfer in Solar Air Collectors." His work focused on enhancing solar air collectors' efficiency—an essential step toward advancing sustainable energy solutions. By optimizing baffle design to improve heat transfer, his research paves the way for more effective and energy-efficient solar systems.

Beyond his presentation, Dr. Pandey engaged in insightful discussions with industry leaders and fellow researchers, exchanging ideas on the future of green energy technologies. The conference featured keynote talks, panel discussions, and interactive workshops, providing a dynamic platform for exploring innovative solutions to pressing energy challenges



Dr. Pandey's participation underscored DIT University's commitment to cutting-edge research and global collaboration in sustainable technology. His experience at AKGEC 2024 not only showcased his contributions to the field but also allowed him to gain fresh perspectives, reinforcing the importance of continuous learning and innovation in green energy and computing.



AAROHAN



IIT DELHI 5G LABS

The visit to the Bharti School Lab at IIT Delhi on December 6, 2024, provided key insights to aid in developing DIT University's 5G lab for advancing research in Cyber-Physical Systems.

As technology continues to evolve, the development of cutting-edge research facilities becomes crucial. In line with this vision, faculty members from DIT University's Department of Electrical Engineering and Computer Engineering (EECE) visited the Bharti School Lab at IIT Delhi on December 6, 2024. The visit was aimed at gaining a deeper understanding of the infrastructure, resources, and methodologies essential for setting up a 5G lab at DIT University, which is being developed with support from iHUB DivyaSampark, IIT Roorkee.

The Bharti School Lab, already a well-established and functional 5G research facility, provided an excellent opportunity for faculty members to observe its role in research, project development, training, and consultancy. By closely studying its operational framework, the team gathered valuable insights that will contribute to the successful establishment of DIT University's own 5G lab, aimed at advancing research in Cyber-Physical Systems.

Dr. Gagan Singh, Dr. Sonika Singh, Dr. Dhruva Chaudhary, Mr. Saurabh Mishra, Dr. Manishikha Rawat and Dr. Nafees Ahamad formed the team which engaged in discussions and observations with an aim to shape the vision for the new lab. This experience marked a significant step toward DIT University's commitment to fostering innovation and technological advancement, ensuring that its upcoming 5G lab becomes a hub for groundbreaking research and development in the field of next-generation communication technologies.



5G Technology and Application Lab

The inauguration of the 5G Technology and Application Lab at DIT University on December 11, 2024, marked a significant step toward pioneering research and industry-driven innovation in 5G technology.

In a landmark development, DIT University inaugurated its 5G Technology and Application Lab on December 11, 2024, establishing itself as a frontrunner in next-generation wireless research. The state-of-the-art lab, supported by iHub DivyaSampark, IIT Roorkee, is the first of its kind among private institutions in Uttarakhand and aims to revolutionize 5G-based applications, fostering innovation in industrial safety, AI, smart irrigation, and Industry 4.0.

The inauguration ceremony was graced by Lt. Gen. Dr. S.P. Kochhar, Director General, COAI, in the esteemed presence of Prof. N. Ravi Shanker, Chancellor, and Prof. G. Raghurama, Vice Chancellor, DIT University. The core team leading this initiative included Dr. Nafees Ahamad, Dr. Gagan Singh, Dr. Sonika Singh, Dr. Saurabh Mishra, Dr. Dhruva Chaudhary, and Dr. Manishika Rawat, who played a crucial role in bringing this vision to life.





At its core, the 5G lab focuses on three major aspects of 5G technology—eMBB (enhanced Mobile Broadband), mMTC (massive Machine Type Communications), and uRLLC (ultra-Reliable Low Latency Communications)—providing a flexible model to develop real-world applications. Among its specialized use case equipment are:

- 5G-Industrial Safety with Real-Time Helmet Detection
- AI-Based Interview Preparation App
- Smart Irrigation System using 5G technology
- uRLLC 5G-enabled Industry 4.0 IIoT Solution

Additionally, the lab is equipped with a Software Defined Radio (SDR) Learning Platform for concept building, alongside a private 5G network infrastructure, MEC servers, IoT application servers, and advanced 5G dongles.

This initiative strengthens DIT University's standing in telecommunications and IoT research, providing students and faculty with a cutting-edge platform for training, innovation, and industry collaboration. As 5G technology continues to evolve, this lab will serve as a hub for developing future-ready talent and advancing real-world applications, making DIT University a leader in next-generation connectivity solutions.

DIT RESEARCH COLLOQUIUM



DIT Research Colloquium is a relatively new initiative of the Office of Dean Research and Consultancy. As decided in the 18th Meeting of the Board of Research, lectures were scheduled to be organized once or twice every semester inviting eminent researchers (Example: winners of Bhatnagar / Infosys / J.C. Bose Fellowship Prize, or/and elected fellows of national Academies like INAE, INSA, IASc, or International Societies like American Physical Society, etc).

The second DIT Research Colloquium was conducted on 13th December, 2024. Prof. Dr. Anatoly B. Kolomeisky, Professor, Department of Chemistry, Physics, Chemical and Biomolecular Engineering, Rice University, Houston (Texas), USA was the invited speaker. The event was chaired by Hon'ble Vice Chancellor. The speaker was introduced by the Dean R&C.

Brief Biosketch of the speaker:

Prof. Anatoly Β. Kolomeisky is Professor а of Chemistry, Chemical and Biomolecular Engineering, Astronomy Physics Rice and at University, Houston(Texas), USA. He has also served as a Visiting Professor at several leading universities in UK, France, Germany, Israel and China. He is a recipient of the prestigious Alfred P. Sloan Fellowshipand NSF career award. In 2015 Dr. Kolomeisky was elected a Fellow of the American Physical Society.



Career Summit

TECHNOLOGY & SCIENCE EXHIBITION

The Career Summit and Science & Technology Exhibition on December 21, 2024, brought together students, educators, and professionals to explore the evolving landscape of STEM careers and innovations.

In an effort to bridge the gap between academic learning and real-world career opportunities, Randhawa Meritorious School in Barth Sahib, Pathankot, hosted the Career Summit and Science & Technology Exhibition on December 21, 2024. The event served as a dynamic platform for students, educators, and professionals to engage with the latest advancements in science, technology, and career development.





The summit featured a series of career talks and panel discussions led by industry experts, providing insights into the ever-evolving STEM career landscape. Hands-on workshops and skill-building sessions equipped attendees with digital literacy, innovation, research, and entrepreneurship skills, ensuring they were better prepared for the future of work.

One of the highlights of the event was the Science & Technology Exhibition, where participants explored cuttingedge advancements in artificial intelligence, robotics, biotechnology, and more. Interactive displays and live demonstrations offered a firsthand experience of how these technologies are shaping industries worldwide.

For the faculty representative from DIT University, the summit also served as a professional development opportunity, allowing for valuable exchanges of ideas with academics, industry leaders, and fellow educators. The event fostered networking opportunities, helping students and professionals connect with mentors, researchers, and potential employers who could guide them toward future career success. With its powerful message—"Tech is the Future"—the Career Summit and Science & Technology Exhibition proved to be an inspiring and impactful experience, leaving attendees with new perspectives, enhanced skills, and a deeper appreciation for the transformative power of science and technology.





Unlegsh Greativity "Art For Yourself & Design For Others"

The Teaching-Learning Centre at DIT University hosted a two-day Workshop on "Design Thinking for Strategic Innovation" in connotation with School of Design under the Coordinator ship of Dean School of Design Prof. Ekta Singh. The event aimed to enhance participants' understanding of design thinking principles and their practical applications in strategic innovation.

Day 1: 23rd December 2024

The workshop began with an Inaugural Ceremony conducted by the TLC Team at 10:00 AM, setting the stage for the productive two days. Dr. Bhavna, Faculty in Charge TLC, DIT University, extended a warm welcome to all participants and dignitaries on behalf of the Teaching Learning Centre. She emphasized the importance of design thinking as a human-centered, iterative problem-solving approach and its relevance in fostering strategic innovation in today's dynamic environment. Dr. Bhavna handed the further program to the Event Coordinator Dr. Ekta Singh, to provide the brief of two days' program, and how the session would delve into practical insights and actionable strategies that can be adopted to drive innovation. She set the tone for an engaging and enlightening discussion.

Dr. Ekta Singh, Dean, School of Design (SOD), delivered the first session on Introduction to Design Thinking Principles. Dr. Singh gave an overview of the core ideas of design thinking, highlighting its iterative and human-centered methodology. To give practical examples of how businesses apply design thinking to develop successfully, a Play IDEO video was shown.

The foundation for cooperation was then established by an icebreaker exercise led by Ms. Mahima Yadav, Assistant Professor, SOD. Ms. Yadav also led a concentrated conversation about empathy, emphasizing how important it is as the cornerstone of design thinking techniques.

Ms. Poornima Kapoor, UX Lead, Airtel India, addressed participants in the second session on Brainstorming and Affinity Mapping, which covered methods to improve problem analysis and idea generation. Ms. Kapoor explained how to efficiently aggregate and prioritize ideas using affinity mapping and offered brainstorming techniques that helped participants identify important problem areas.

The afternoon sessions focused on practical exercises. After conducting empathy mapping to comprehend user feelings and experiences, participants created comprehensive user profiles using persona-building exercises. Through an Edutech-focused case study, participants were able to put design thinking concepts to use in a real-world setting.

Additionally, Mr. Prateek Vishwakarma conducted a PACT Analysis (People, Activities, Context, and Technologies) during the session. This section offered insightful guidance on how to formulate clear problem statements and specify user needs. Through an interactive group activity, participants were encouraged to organize their approach to problem-solving using mind-mapping techniques and the 5W & H framework (Who, What, When, Where, Why, and How). This activity promoted collaboration and helped in converting abstract ideas into workable plans.

Following the first day program, there was a feedback session where participants discussed their experiences and considered their most significant learnings.

AAROHAN

Unlegsh creativit

"Unleashing **Boundless Creativity:** Where Imagination Knows No Limits"



Day 2: 24th December 2024 The second day of the workshop commenced with an engaging and energizing activity titled Metamorphosis, facilitated by Ms. Mahima Yadav and Mr. Prateek Vishwakarma. This fun activity was created to foster creativity and establish a constructive atmosphere for the activities that day.

Ms. Vriti Bhargava, Associate Director, IBM iX, presented Techniques for Ideation via an online platform as the day's first main session. Storyboarding and the Six Thinking Hats are two powerful ideation strategies that Ms. Bhargava offered to the participants. These tools promote disciplined creativity and a variety of viewpoints. Through a fascinating case study, she further demonstrated how Agile approaches can be integrated into Design Thinking. This real-world example demonstrated how flexible and successful these methods are under changing circumstances.

The day's last session was led by Mr. Abdul Kalam, Assistant Professor, SOD, who conducted the Crazy Eights Activity, which prompted participants to sketch eight ideas related to college placements in eight minutes. Mr. Kalam further explained the SCAMPER Model (Substitute, Combine, Adapt, Modify, Put to another use, Eliminate, and Reverse) to promote creative problem-solving and innovation, and also gave a thorough explanation of Pugh Analysis, a decision-making tool that assists in comparing multiple alternatives against a set of weighted criteria. Participants especially valued this session because of its usefulness in assessing and honing ideas.

During the closing session, Prof. Hemraj Saini, Chairperson, TLC, expressed his appreciation for the workshop's well-structured agenda, which combined theoretical insights with practical applications. He also stressed the importance of design thinking in fostering a culture of innovation and problem-solving in academic and professional settings. Furthermore, Prof. B.K. Singh, Dean, SoET, emphasized the workshop's relevance in bridging the gap between academia and industry, and he praised the organizers and speakers for providing an enriching experience that allowed participants to approach challenges creatively. Prof. Ekta Singh, Dean SoD, expressed her enthusiasm for the participants' involvement and engagement. Reiterating the importance of empathy and teamwork as the cornerstones of design thinking, she urged participants to incorporate these ideas into their work. The certificates were provided to the participants by Prof. Hemraj Saini (Dean Faculty Affairs), Prof. B. K Singh (Dean SoET) and Prof. Ekta Singh (Dean

Dr. Bhavna acknowledged all of the presenters, facilitators, and participants who contributed to making the workshop a success in her closing remarks. She extended special appreciation to Dr. Ekta Singh, dean of the School of Design, for her wise guidance and for establishing the workshop's tone with her knowledge of design thinking concepts.

The contributions of Ms. Mahima Yaday, Mr. Prateek Vishwakarma, and Ms. Vriti Bhargava were also recognized by Dr. Bhavna. Their engaging and insightful sessions provided the talks a real-world context. She gave the attendees high marks for their zeal and active participation, which enhanced and interacted with the program. Lastly she acknowledged the hard word of her TLC team to make the program a success.

Conclusion:

The two-day workshop on "Design Thinking for Strategic Innovation" was a resounding success, providing participants with a comprehensive understanding of design thinking principles and their application in fostering innovation. Through engaging sessions, real-world case studies, and collaborative activities, the workshop bridged the gap between theoretical knowledge and practical implementation.

This workshop not only empowered participants with valuable insights but also inspired a mind- set shift toward empathetic and strategies of blemsolving, making it a significant milestone in their professional journey.





<u>JusPay</u>

Ms. Mukti Agarwal of DIT University secured a prestigious ₹27 LPA Software Developer role at JUSPAY.



ORACLE

B.Tech CSE students from DIT University were selected by Oracle India in its campus hiring program. This achievement highlights our students' excellence and strong industry ties.



<u>Infosys</u>

More than 100 students from DIT University secured placements at the Infosys Pool Campus Drive held at UPES on November 8, 2024, marking a significant milestone in their careers.





<u>SAP India</u>

The SAP India Virtual PPT Session offered valuable insights into emerging technologies, digital transformation, and career opportunities in the tech industry.

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	Learning Pettowship opportunities Sponsorship for M.Tech from BITS Pitani Open SAP courses Mentoring & coaching Rotations in three different teams and technologies Innovation InnVent DCOM Hackathons SAP Blue D-Shop SAP Innovation Day
Lifestyle Menie &	Health & Wellness Yoga & Aerobics Gym & Tennis Basketball Football courts Athletic track Employee interest Employee interest Employee interest Employee interest Employee interest
Meals & Transport	Flexible working groups Toastmasters

Zigram Virtual PPT Session

The Zigram Virtual PPT session provided students with insights into data intelligence careers and industry applications.



Yamaha On-Campus Process

The Yamaha on-campus recruitment process provided students with an opportunity to showcase their technical and problem-solving skills, leading to potential career opportunities in the automotive industry.



SOTI Recruitment Drive

SOTI's Recruitment Drive focused on identifying talented individuals with strong technical acumen and problem-solving abilities for roles in software development and enterprise mobility solutions.



Yash Technologies Placement Process

The placement process at Yash Technologies emphasized technical proficiency, innovation, and adaptability, offering students a chance to kickstart their careers in IT and digital solutions.



DIT University Collaborates with Encryption Consulting LLC, USA

DIT University signed an MoU with Encryption Consulting LLC, marking the company's first partnership in the Indian education sector. This collaboration, backed by CSC/CDC, aims to enhance students' industry-relevant skills and bridge the gap between academics and real-world applications.



PaloAlto

Mr. Praveen Saiwal, Dean - Career Development & Career Services Cell, DIT University attended CONFLUENCE – 2024, the annual event hosted by Palo Alto Networks at The Leela Palace, Bangalore, as an Academic Partner. The event featured insightful discussions, corporate presentations, and advanced technological insights. A key highlight was Mr. Anil Valluri's address on the urgency of cybersecurity consolidation and its growing importance.



<u>Altudo On Campus Process</u>

The on-campus placement process of Altudo was conducted on 4th December 2024.





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"The Perfect Morning"



By – Anushka Tiwary

There's something magical about waking up early on a quiet morning. The air feels fresh, and everything seems to move at a slower pace, almost as if the world is giving you time to breathe. You make a cup of coffee, sit by the window, and watch the sky slowly change color. It's a simple moment, but it's the kind of moment that reminds you how beautiful life can be when you stop rushing through it

There are times when you want to escape from the world but how do you do that. This world is a place where no one will feel your absence and your presence is just as equal to any other. In moments like these when escaping is the only way out, nature is the best place to got to. As the morning breeze hugs you, you feel the envelop of comfort around you. The cool breeze makes you feel warm and at home.

You take your cup and settle by the window, watching as the sky slowly shifts from deep blue to soft hues of orange and pink. The world outside stirs, but there is still a quietness to it—a kind of pause before the rush of the day. You take a deep breath, letting the moment settle in. These quiet mornings are a sanctuary, a time where you feel truly present. Life moves so fast, always pushing forward, but in these still moments, it feels like I have all the time in the world. The stillness is just to so stationary that it makes you life feel at ease too. When life paces fast it is best to take some time out for yourself even if its just a hot cup of coffee.

"The Lost Letter"



By – Khushan Pant

I found an old letter today, tucked inside a dusty box in the attic. It was from years ago, written in beautiful handwriting with a bit of faded ink. The letter was full of dreams, promises, and memories of a time I had almost forgotten. It felt like a small treasure from the past, reminding me how far I've come, yet how much of me still carries the same hopes and fears from that long-lost time.

They say time is the greatest healer, but sometime when you remember time it again breaks a part of your life that you never knew had never healed. The process of healing takes a long time it is no one day job and when you get a glimpse of your past through those pages, the ecstatic sense of nostalgia hits you in very different places. The sudden burn in the chest, the quickening of breath, the heating up of ear pinna are just a few reactions to nostalgia.

With careful fingers, I unfolded the paper and began to read. The words transport me back in time-dreams I had once clung to, promises made in the naive hopefulness of youth. There is something bittersweet in seeing my past self laid out so plainly. I smile at some lines, linger on others, feeling a mix of longing and gratitude. Life didn't turn out exactly as I had planned back then, but as I hold this letter, I realise that part of me-the part that dreamed, hoped, and felt deeply-is still very much alive.

The kind of alive that people generally deem as dead. Yet how could they know what tugged inside me. The longing of living again rushed in my veins. This lost letter of life brought me back to life to live life once again. 48

"The Road Less Travelled"



By - Khushan Pant

There's something comforting about following the same path every day, knowing exactly where it will take you. But then, there's that other road—the one less traveled. It's a bit uncertain, a bit unfamiliar, but there's a sense of adventure that comes with it. Sometimes, I wonder if I should take that road, if only to see where it leads. Life is short, and maybe it's the unknown journeys that make the best stories.

I walk the same path every day. The same streets, the same turns, the same familiar sights. There's comfort in knowing where I'm going, in the predictability of it all. But today, I pause at an unfamiliar crossroad, my eyes lingering on the road I've never taken. It's quieter, shaded by trees, leading towards something unknown. Curiosity tugs at me. I glance at my watch—I have time. So, with a deep breath, I take a step onto the new path. The air feels different here, fresher, almost charged with possibility. The road winds, revealing hidden corners, forgotten benches, and small bursts of wildflowers growing between cracks. It feels like stepping into another world, one I had overlooked for so long. Uncertainty is certain on paths like these but what matters more is a possibility. A possibility of finding an undiscovered version of yourself. An another dimension figure and that is where the thrill of life lies. By the time I reach the end, I realise something: taking the same path is safe, but stepping into the unknown is where the real magic happens. Perhaps, in life, it's the unexpected detours that lead to the most beautiful destinations.

"A Simple Connection"



By – Anushka Tiwary

We were sitting in a coffee shop, strangers passing by, yet there we were—two people having a conversation like we'd known each other forever. It wasn't anything extraordinary, just the kind of chat where you find yourself laughing over something small. But in that moment, it felt like a real connection, the kind that reminds you that human interaction, no matter how brief, can still be the most genuine part of your day.

At first, it was just polite words, the kind you exchange out of habit. But then, something shifted. We laughed at the same joke, shared stories of places we'd been, and before I knew it, an hour had passed. It wasn't about the depth of the conversation but the ease of it. There was something refreshing about connecting with someone without expectation, without history. We were agreeing on things, disagreeing on some, jesting on

some, debating on some. In that matter of an hour, we had covered world, sports, life and books. Oh yes how could I not mention books. They told me about the books they had read and that particularly resonated quite well with my choice in books. I believe literature is something that just pulls people together. An effortless conversation, a simple connection and a thousand words said.

They time went by and as they stood to leave, they smiled and said, "It was nice talking to you." And it was indeed. It reminded me that sometimes, the most meaningful moments in life aren't planned—they just happen.

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"The Sound of Silence"



By – Riddhima Chhabra

Sometimes, the best sound isn't a song or a conversation—it's silence. It's that quiet moment after a busy day, when the world slows down and you find peace in just being still. It's in the way the air feels a little softer, and the noise of the world fades into the background. It's a reminder that even in the chaos, there's always a place for calm, if only we take the time to listen.

Silence holds a lot of words. It speaks a lot but not for the normal human ears to listen. It is ethereal and requires a humane soul to understand the sound of silence. It sometimes speaks of the scars, sometimes of the battles, sometimes the soldiers and sometimes of the companion that you lost.

Silence is the only way to express the wounds that have healed but still remind you of the war. The world is a noisy place. The hum of traffic, the constant bugg of notifications, the endless conversations—it never stops. But at the end of the day, when the noise settles and the world slows down, I find solace in silence. I sit by the window, the lights dimmed, my mind finally free from the weight of the day. There's no music, no voices, just the soft rustle of the wind outside. In this stillness, I can hear my own thoughts, my own heartbeat. It's a rare and beautiful thing—to simply be, without distraction.

Silence has a way of bringing clarity, of making space for things we often push aside. It's in this quiet, when everything else fades, that I truly feel at peace. The world will be loud again tomorrow, but for now, I let myself sink into the calm, grateful for the quiet moments that remind me of what really matters.



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