Report on soft skills Enhancement Programs

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1. Motivational Session on My Story of Building Mooofarm

Motivational Session on My Story of Building Mooofarm was organised on 31.10.23 The objective of organizing the Motivational Session on my Mooofarm journey was to inspire and empower individuals by sharing firsthand experiences and insights. Through storytelling, the event aimed to foster a positive and motivational atmosphere, encouraging participants to overcome challenges and pursue their goals with resilience. Additionally, the session sought to provide practical lessons on entrepreneurship, leadership, and innovation, leveraging Mooofarm as a real-world example. Ultimately, the event aimed to instill a sense of motivation, purpose, and determination among the audience, fostering a learning environment that extends beyond the session and into their personal and professional endeavors. Students provided feedback on the session in following manner-Engaging in the organization of a motivational session on my journey with Mooofarm has been instrumental in my personal and professional development. This experience honed my public speaking and presentation skills, allowing me to articulate my story effectively. Coordinating the event improved my organizational and leadership abilities as I managed logistics, schedules, and communication.

Furthermore, the preparation for the session deepened my knowledge of Mooofarm, enhancing my understanding of its operations and impact. Interacting with the audience during the session enhanced my interpersonal skills, and the positive feedback received bolstered my confidence.

Overall, this opportunity significantly contributed to my skill set, providing me with valuable insights into storytelling, event management, public speaking, and fostering connections with diverse audiences. These learnings are transferrable and have enriched my capabilities in various aspects of professional life

Prof. S. Indu

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2. My Story - Motivational session by successful Innovators

My Story - Motivational session by successful Innovators was organised on 30.11.23 The objective was to motivate and inspire people to show more involvement in research area or any field of work. It provided a clarity about what future opportunities one can purse in both academia as well as in industry. It will instill a self belief in one abilities to reach their full potential. It will culitivate a positive and growth oriented mindset for personal and professional develop both. Such motivation can help a person believe that they can reach new height in their life irrespective of the hurdles one face through it.

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3. Session on Problem Solving and Ideation Workshop

Session on Problem Solving and Ideation Workshop was organised on 27.10.23 The primary objective of the workshop was to equip participants with practical problem-solving techniques and enhance their ability to generate innovative ideas. Ideation techniques are designed to help you push boundaries and think out of the box. Analogous thinking, coming up with the worst possible solution for something, challenging long-standing assumptions and reverse thinking are all strategies that help you think in new, innovative ways. The purpose of the ideation workshop is to generate new ideas. However, while you want to brainstorm as many new ideas as possible, you still need guidelines to keep the session focused on the problem. A great way to focus the ideation session on the important issues is to create a problem statement.

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DELHI TECHNOLOGICAL UNIVERSITY DEPT. OF SOFTWARE ENGINEERING Organizes

Workshop on PROBLEM SOLVING AND IDEATION 26th October, 2023

EXPERT SPEAKER



Mr. Rahul Pandey Founder, Pulpy Dive



Dr. Subodh Mor President The Sports Rehabilitation Association of India

PATRON

Prof. S. Indu Vice Chancellor, DTU





Prof. Ruchika Malhotra HOD (Dept. of SE), DTU COORDINATOR



Mr. Sanjay Patidar Asst. Prof. (Dept. of SE), DTU

Room No. 301, AB4 Block, Dept. of SE, DTU
1:00 PM to 6:00 PM

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4. Workshop on "Entrepreneurial skill, attitude and behaviour development"

Workshop on "Entrepreneurial skill, attitude and behaviour development" was organised on 3.-01.2024, The workshop aimed to equip aspiring business leaders with the knowledge and skills necessary to navigate the dynamic world of entrepreneurship. Practical Insights: Participants gained practical insights into the entrepreneurial journey, learning from Mr. Aashish Raj's real-world experiences. Networking Opportunities: The workshop provided a platform for students to network with a successful entrepreneur and with each other, fostering potential collaborations and partnerships.

Holistic Understanding: The holistic approach covered various facets of entrepreneurship, ensuring that participants left with a well-rounded understanding of the subject.



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5. Workshop on World Creativity and Innovation Day

Workshop on World Creativity and Innovation Day organised on 21.04.2023, Objective of the workshop is to inculcate creativity and innovation into the thought process. Benefits of the workshop incuded inculcation of being Problem solver and innovator.



Aspire 3 Innovate- 3 days workshop (hands-on challenges) for young Designers and Entrepreneurs

Aspire 3 Innovate- 3 days workshop (hands-on challenges) for young Designers and Entrepreneurs was organised from 23.08.23 to 25.08.23. The workshop agenda was carefully curated to cover a wide range of topics relevant to the student's career development and entrepreneurial aspirations such as Introduction

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Report on Life skills (Yoga, physical fitness health and hygiene)

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1. Environment, Climate, Health and Occupational safety (ECHOS)

Environment, Climate, Health and Occupational safety (ECHOS) was organised on 23.02.2024, The aim of the seminar to disseminate awareness about climate and health safety and occupational hazards in different work environment. The seminar brings experts from different fields such as government bodies, industries, academicians, and researchers. 1.In-depth discussions and insights on the nexus of environment, climate, health, and occupational safety. 2.Integration of technology for environmental monitoring and management. 3.Comprehensive understanding of safety measures across various domains.



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2. Seminar on Innovation & Legislation of Environmental Noise Control and its Effect (SILENCE)

Organised on 26.04.2023, Objective of seminar (SILENCE-2023) was to bring together experts from different fields to discuss the innovation & amp; legislation of environmental noise control, as well as effect of noise pollution on people's health and the environment and to explore possible solution to this problem. In this seminar, the invited experts discussed about the ongoing research the Benefits and developments in monitoring. in of terms learnings/skills/knowledge obtained:

The seminar brings up specialists from various fields to talk about the innovation & amp; legislation of environmental noise control, as well as effect of noise pollution on peoples health and the environment. It also offered a wider perspective on track solutions for sustainable rail infrastructure.

1. Seminar enriched around 90 M. Tech and B. Tech students including faculty and researchers of DTU and other educational institutions in advanced measurement techniques of noise monitoring and its remedial measures.

2. It creates awareness to the participants towards health impacts of high noise level.

3. Participants acquired relevant skills and techniques for monitoring, modelling, and mapping of rail induced noise.

4. The seminar also emphasised on track solutions for sustainable development rail infrastructure especially noise free environment for all and demand for noise policy initiatives and the significance of the smart public transportation system to combat the noise level due to transportation.

5. It emphasised the role of individual, research and educational institutions to solve the

problem caused by the different kind of noise such as industrial holds, construction p_{2} of S. Indu

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noise, road traffic noise and rail noise.

6. Adoption of alternate technologies such as noise barrier, green cover, EV technology for zero noise in urban environment and smart mobility.

7. Different action plans and policies introduced by the central and state government authorities like DMRC, CPCB, SPCB, etc. to reduce noise pollution were discussed.



3. Organizing Innovation & Entrepreneurship Program in Schools/community

The objective of the event was to make acquainted school students regarding opportunities and challenges being faced by them when they go for entrepreneurship and further develop their innovative skills.

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4. Poster presentation on "Innovative Ideas to Reduce Plastic Pollution"

Poster presentation on "Innovative Ideas to Reduce Plastic Pollution" was organised on 05.06.2023. To engage the community's interest in an issue, reveal community issues, and raise awareness of an issue in a way that is visual, inclusive and fun. To bring out the creative expression of students and to gauge their knowledge and awareness of various trends in plastic pollution To trigger thought processes among the students towards recent trends in the field of plastic pollution practices and upcycling. Promote social skills by providing participants with an opportunity to interact with other artists, share their ideas and learn from each other.

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5. One day Seminar on "National Pollution Control Day"

One day Seminar on "National Pollution Control Day" was organized on 05.12.23. To create awareness among the stakeholders on "National Pollution T_{p_2} of S. Indu

Dean (Student Welfare) Delhi Technological Loorsity Shahbad Daulatpur, Bawana Road, Delhi-110042 Control Day". Eminent speakers from academia (IIT Delhi, School of Planning and Architecture, Delhi University) were invited to deliver lectures to observe "National Pollution Control" Day. The speakers talked about the different pollution problems faced by the nation and world at large. Also, solutions to combat these pollution problems in different media - air, water, soil, sub surface, etc. were delved upon.



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Report on Language and communication skills

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1. Talk on Managing AI products

Managing AI products talk on 20.02.2024 involved addressing several key factors, from ethical considerations and technology scalability to user experience and regulatory compliance. Event focused on managing AI products and brought together industry leaders, researchers, and practitioners to discuss the latest trends, challenges, and opportunities in AI. The event witnessed a discussion on the Overview of AI Product Management, the Role of AI in Product Management: and the Importance of AI Strategy which is the integration of AI into overall business strategy, focusing on aligning AI capabilities with business goals. Key Themes of the talk included:

- Ethical Considerations in AI: Addressing bias, fairness, and transparency in AI systems. Discussions often include the ethical implications of deploying AI in different industries, such as avoiding discrimination in decision-making processes.
- **Regulatory Compliance**: Navigating evolving regulations related to AI, like GDPR (General Data Protection Regulation), and preparing for upcoming AI-specific legislation such as the EU AI Act.
- AI and Data Management: How to effectively collect, store, and use data for AI. Discussion on managing large datasets, ensuring data privacy, and mitigating security risks.
- Scalability of AI Products: Best practices for scaling AI solutions from prototype to full-scale product implementation. Highlighting cloud computing, machine learning operations (MLOps), and continuous AI model improvement.
- User-Centered AI Design: Ensuring that AI products are user-friendly and meet customer needs. Understanding user feedback loops, human-AI interaction, and personalization.

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2. Workshop on Reflections on the Indian Knowledge System in Texts of Bharat

The workshop titled **"Reflections on the Indian Knowledge System in Texts of Bharat"** held on 23.04.2024 to 25.04.2024 focused on exploring the rich, diverse, and multifaceted Indian Knowledge Systems (IKS) as reflected in classical and indigenous texts. The workshop aimed to bring together scholars, educators, and practitioners to delve into the ancient texts of India (Bharat) and reflect on their relevance in contemporary education, culture, and knowledge dissemination.

The event was structured to explore how texts from different periods and disciplines in Indian history—such as Vedic literature, philosophical treatises, ancient sciences, and artistic traditions—continue to contribute to a deeper understanding of knowledge production and societal development in India.

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3. Music : A tool of healing and communication

The speaker session titled "Music: A Tool of Healing and Communication" held on 27.02.2024 explored the profound effects of music on the human body and mind, its therapeutic potential, and its role as a universal language that transcends cultural and linguistic barriers. The session brought together students, educators, therapists, and music enthusiasts to engage in discussions about how music serves not only as an art form but also as a powerful medium for emotional expression, healing, and communication.

The speaker, Dr. Umesh C Pathak, a renowned expert in music therapy, shared insights from their research and practical experience on how music can be used to promote mental, emotional, and physical well-being.



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4. Workshop on Panel Data Analysis Humanities, DTU, Delhi.

The workshop on Panel Data Analysis was held on 17-22 August 2020 equipped participants with the necessary tools and techniques for analyzing panel data—data that tracks the same subjects over time. Panel data analysis is increasingly important in fields like economics, social sciences, healthcare, and business due to its ability to capture both crosssectional and time-series variations.

This workshop brought together researchers, data analysts, students, and professionals who were eager to enhance their understanding of panel data and its applications in research and policy-making. The session covered the fundamentals of panel data, key models, estimation techniques, and practical applications through hands-on exercises using statistical software.

5. Conducted a two-day workshop on Research in Literature: State and **Directions**

The two-day workshop titled "Research in Literature: State and Directions" held on 7-8 October 2021 highlighted exploring the current trends, methodologies, and future trajectories in literary research. The workshop provided a platform for scholars, students, and researchers to discuss how literature research has evolved over time and explore new directions in literary theory, interdisciplinary approaches, and emerging areas of study.

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This workshop was designed to equip participants with the necessary tools for conducting rigorous literary research and to foster an understanding of how literature connects to wider social, cultural, and political contexts. Key sessions covered theoretical frameworks, research methodologies, contemporary debates, and practical advice for early-career researchers.

6. Workshop on Inclusion of Hindi in Foundational Electives for Nonnative speakers of Hindi

The workshop on "Inclusion of Hindi in Foundational Electives for Non-Native Speakers" held on 08.05.2019 explored the strategies for integrating Hindi into foundational elective courses at educational institutions, particularly for students who do not speak Hindi as their first language. The workshop addressed the linguistic, cultural, and pedagogical challenges involved in making Hindi accessible and engaging for non-native speakers, and how to structure the curriculum to accommodate diverse linguistic backgrounds.

This initiative aligns with the broader goals of promoting multilingualism, and cultural inclusion, and expanding opportunities for students to engage with India's rich linguistic heritage. The workshop brought together educators, curriculum developers, language experts, and policymakers to discuss best practices for developing effective Hindi language programs.

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7. Workshop on "R & amp; Econometrics"

The workshop on "R & Econometrics" held on 5-9 March 2019 focused on introducing participants to the use of R, a powerful statistical software, for econometric analysis. The focus was on equipping students, researchers, and professionals with the skills required to apply econometric methods using R for data analysis, modeling, and interpretation of economic data.

Econometrics, being the intersection of economics, statistics, and mathematics, is crucial for analyzing real-world economic problems. With the growing demand for data-driven decision-making, proficiency in R for econometric applications has become increasingly important. The workshop was designed to provide both theoretical knowledge of econometric concepts and practical training in R.

8. Continuous education on language skill building through AEC and VAC courses at the University

Under AEC and VAC courses the department of Humanities offers courses ranging from Communication skills to logical reasoning. Most of the AECs aim to hone the language skills of the students. Among these prominent ones are: Communication Skills, Soft Skills and Personality Development, Speaking Skills in English, Public Speaking and Technical Communication. There are courses like Appreciation of Prose and Poetry, Appreciation of Fiction and Appreciation of Short Stories to enhance the critical abilities to appreciate literature. Besides these, there are courses like Logical Reasoning, Emotional Intelligence and Professional Ethics and Human Values for further improvement in students' understanding of the personal and professional domains.

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Report on ICT computing skills Enhancement Programs

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1. Data Processing using Structural Equation Modelling Analysis

Data Processing using Structural Equation Modelling Analysis was organised on 29.08.2023. The objective of organizing this workshop is to provide an introduction to longitudinal data analysis using structural equation modelling (SEM). Further, the introduction to SEM that includes path analysis, confirmatory factor analysis, and structural equation models with latent variable and which focuses on both establishing a conceptual understanding of the model and how it is applied in practice will be discussed in detail. It has also discussed how to be focused on the application and interpretation of statistical models that are designed for the analysis of multivariate data with latent variables? How SEM is used to analyze the longitudinal data is discussed. The workshop focus on the main SEM methods for analyzing longitudinal data: auto-regressive SEM models and latent growth curve models. We will How SEM allows for the empirical testing of research hypotheses in a general framework?



2. National Science Day Celebration

National Science Day Celebration was organised on 28.02.24. The prominent objectives of National Science Day celebrations are to spread the message of the importance of science and its application in daily life, to encourage the youth to engage in scientific activities and consider careers in science and technology and to Inculcate scientific temper and fostering a culture of innovation among the general public. In this seminar participants are benefitted by the interactive sessions with the brilliant speakers and they have gained the knowledge about the National Science Day Celebration on 28th February each year. Prof. Ashok K. Nagawat, Hon'ble Vice Chancellor, Delhi Skill and Entrepreneurship University was the Chief Guest of the Celebration of National Science Day-2024 at DTU and he has explained in detail about the important of Science. The talks on " Societal based research and its importance " and "Role of Science in Circular Economy: An Indian perspective" are delivered by the eminent speakers, Prof. N. Vijyan, Sr. Principal Scientist CSIR-NPL and Prof. Vivek Kumar, Head, Centre for Rural Development and Technology (CRDT), IIT Delhi.





3. Process of Innovation Development, TRL, Commercialization of Lab Technologies & Technology Transfer

Process of Innovation Development, TRL, Commercialization of Lab Technologies & Technology Transfer was organised on 20.02.24. Understanding Process of Innovation Development, TRL, Technology Transfer & Commercialization of Lab Technologies. The interactive session saw an engaging exchange between Dr. Sharma and the attendees. Faculty members delved into specific challenges within their research domains, seeking guidance on navigating technology transfer processes. Students, brimming with fresh ideas, enthusiastically explored the intricate pathways to connecting their innovations with potential markets and achieving successful commercialization.

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4. World Quantum Day Celebration

World Quantum Day Celebration was organised on 15.05.24. The primary objective of this event is to create the awareness about Quantum Computing and its application areas. The title of the talk is "An Introduction to Second Quantum Revolution" which is presented by Prof. Anirban Pathak from JIIT Noida. The speaker discussed a range of topics, including recent news in quantum computing, resources available for students, and a basic understanding of quantum technology's unique aspects. He also provided a historical perspective on the first quantum revolution and explained India's growing interest in quantum technologies. Pathak covered the various classes of problems that quantum computing can solve, detailed the functionality of quantum and qubit gates, and explored the significant intersection of quantum computing and cryptography.

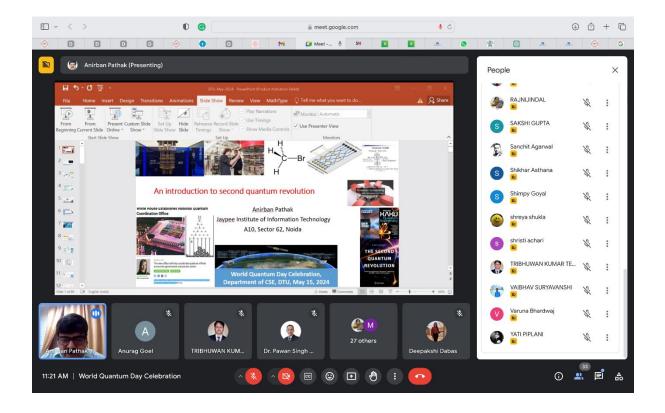
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Dean (Student Welfare) Delhi Technological Lesrsity Shahbad Daulatpur, Bawana Road, Delhi-110042 revolutionize the electoral process in India. Discussion on the types of problems that quantum computing can address effectively.

o Quantum and Qubit Gates: Detailed explanation of quantum gates and qubit operations.

o Quantum Cryptography: Exploration of the intersection between cryptography and quantum computing, including potential impacts on security and related potential attacks.

• Applications in Elections: An intriguing discussion on how quantum computing could potentially enhance the electoral process in India.

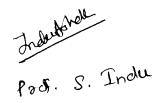


5. Recent Innovations in Quantum Cryptography

Recent Innovations in Quantum Cryptography was organised on The workshop's objective on "Recent Innovations in Quantum Cryptography" is to explore the cutting-edge advancements in quantum cryptographic techniques and their applications in enhancing cybersecurity. The event aims to bring together researchers, academics, and industry professionals to discuss the latest $P_{2}S$. S. Indu

Dean (Student Welfare) Delhi Technological Umersity Shahbad Daulatpur, Bawana Road, Delhi-110042 developments, challenges, and future directions in quantum cryptography. Participants will gain insights into how quantum principles are being leveraged to create secure communication protocols, address vulnerabilities in classical cryptographic systems, and prepare for the emerging quantum era. The event seeks to foster collaboration and innovation in the rapidly evolving field of quantum cryptography.





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