

HARNESSING AI IN ACADEMIC RESEARCH: INNOVATION, TOOLS AND ETHICAL PRACTICES

The Faculty Development Program (FDP) titled "**Harnessing AI in Academic Research: Innovation, Tools, and Ethical Practices**", held from **1st January to 8th January 2025**, aimed to empower faculty members with the latest advancements in artificial intelligence and its application in academic research. Each day sessions were conducted from 10 am to 4 pm. This program provided a comprehensive platform for participants to explore innovative methodologies, cutting-edge tools, and the ethical considerations associated with AI-driven research.

Day1:1st January 2025

Session 1: “Introduction to AI in Academic Research”



Anchor, Ms. Vandana Rastogi, opened the program by introducing the participants and discussing the evolution of GIBS over time. The resource person for 1st session was Prof. (Dr.) Urvesh Chaudhary, Prof GIBS. She was given a green welcome by Prof. (Dr.) K.D. Sharma. Prof. Urvesh discussed the growing importance of AI in realm of academic research. She further stated that use of AI can enhance Literature Management, Literature Review and Report Generation thus saving time and extra work. She highlighted the use of AI in scientific writing and generating report hypothesis. She also warned that participants should be very cautious while using AI and should not become addicted to it. She concluded the session by discussing the future of AI in Research.

Session 2 & 3: “AI Powered Tools for making Presentations, Browsing Plug-ins for Academic Research”



Session 2 was continued by Prof. (Dr.) Abhijit Das, Professor, GIBS. He discussed the various AI driven tools such as Beautiful.ai, Designscape by Visme, Tome, Slidebean, Canva, Zoho Show and Gamma for creating engaging PowerPoint Presentations.

In the third session, hands on practice were carried out by the participants on the above AI tools in Computer lab Room no. 202. At the end of the session, vote of thanks was given by Dr. Nidhi Sharma.

Day2: 2nd January 2025

Session1: “Systematic Literature Review (SLR)andBibliometric Analysis Techniques”



The Winter Faculty Development Program (FDP) on **Systematic Literature Review (SLR)** and **Bibliometric Analysis Techniques for Research** aims to equip researchers and academicians with the essential tools and methodologies to enhance their research skills began with a welcome ceremony. The anchor, Ms. Megha Juneja, opened the program by introducing the participants and discussing the evolution of GIBS over time. The speaker Dr. Seema Malik, Associate Professor at Bhagat Phool Singh Mahila Vishwavidyalaya, Sonipat, Haryana was given a green welcome by the event coordinator, Prof. (Dr.) Abhijit Das. Dr Malik informed the participants that a thorough SLR needs to be planned out in detail, carried out methodically, and the literature must be critically evaluated. She emphasized on role of bibliometric tools in analyzing research output and citation patterns. She highlighted that both SLR and bibliometrics, demonstrating how they can complement each other to identify research gaps, key papers, and emerging topics. Additionally,

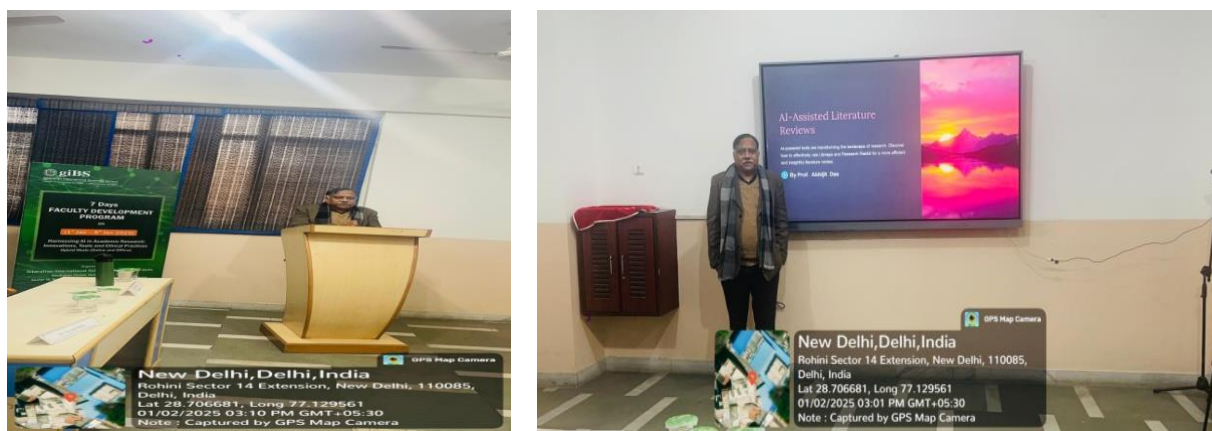
participants will engage in hands-on activities, case studies, and interactive discussions, allowing them to apply these techniques to real-world research. The workshop served as a springboard for conducting rigorous research, data-driven literature reviews and performs insightful bibliometric analyses to inform and guide future research projects according to attendees. The session ended with the vote of thanks delivered by Ms. Chetna Mahaur.

Session2: “Hands-on Practice Session on Vos Viewer and Bibliometrics”



This next session was continued by Dr. Seema Malik on AI-based Bibliometric Analysis and its useful applications in a variety of real-world scenarios. In this session, attendees learnt how to use **VOSviewer** to visualize and analyze citation networks, research trends, and author collaborations through intuitive graphical representations. They also explored **Bibliometrics**, an R-based package, to perform in-depth bibliometric analyses, including citation and co-citation analysis, keyword co-occurrence, and mapping research areas. Through guided exercises, participants applied these tools to real-world datasets, which enables them to generate meaningful insights into research patterns, identify influential papers and authors, and map the intellectual structure of a given field. Prof.(Dr.) Abhijit Das offered the vote of thanks to the speaker at the end of the session.

Session3: “AI assisted Literature Review- using Litmaps, Research Rabbit”



Dr. Prof. (Dr.) Abhijit Das, Professor, GIBS took the session. He was welcomed by Prof. (Dr.) Urvesh Choudhary. He introduced the participants to innovative tools like Litmaps and Research Rabbit that leveraged artificial intelligence to streamline and enhance the literature review process. He said that Litmaps offers a dynamic, interactive reference management platform that visually organizes research articles, helping users to explore connections between studies and track evolving research trends and Research Rabbit utilizes AI to help researchers discover and recommend relevant papers based on their interests, enabling more efficient exploration of academic literature. The session proved to be highly significant and resourceful through hands-on activities, participants learnt how to use these tools to automate literature searches, visualize connections, and stay updated on the latest research developments, making the literature review process faster, more comprehensive, and insightful. The session provided an enriching experience and valuable information to the participants. The terms explained were lucid and well delivered.

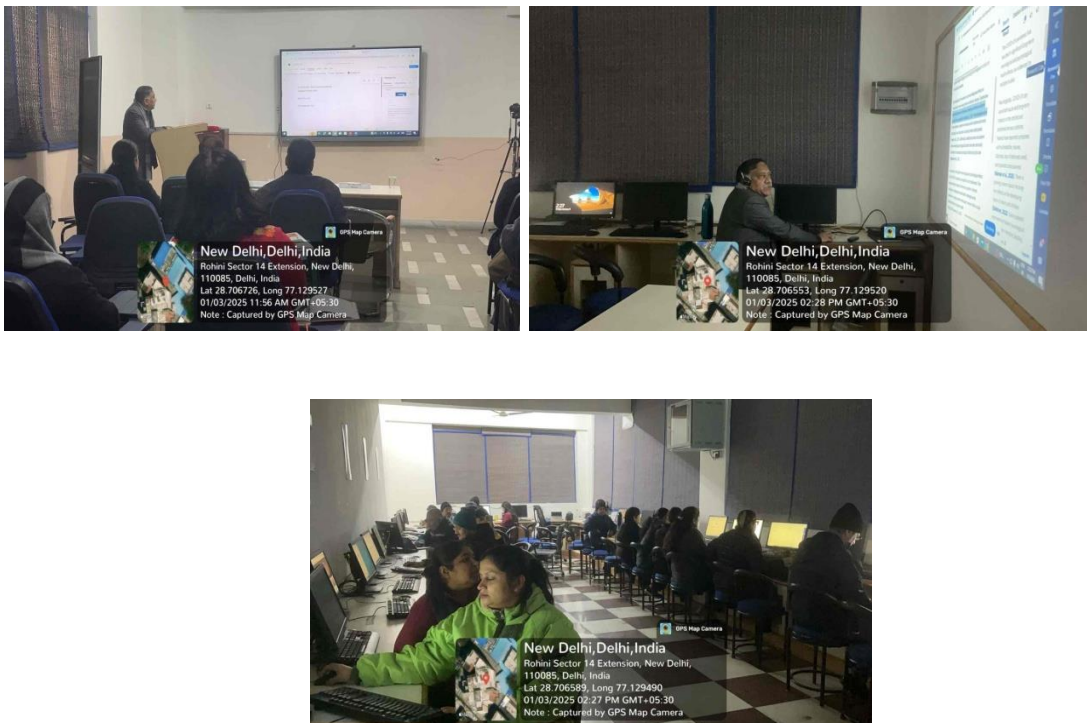
Day 3: 3rd January 2025

Session 1: “Tools for Referencing and Citation: Using Mendeley”



On Day 3, first session was taken by Prof. (Dr.) Abhijit Das, Professor, GIBS, on Tools for Referencing and Citation, with a special emphasis on Mendeley. He discussed Mendeley, a widely used reference management software. He explained to the participants how to efficiently organize, store, and manage their references, create bibliographies, and seamlessly integrate citations into their research papers. The session covered key features of Mendeley, including reference collection, citation styles, and collaboration tools for sharing and annotating papers with colleagues. Through hands-on exercises, attendees gained practical experience in using Mendeley to streamline their writing process, ensuring accurate and consistent citation management throughout their research projects.

Session 2 & 3: “AI Tools for Abstract and Outline Generator- An Overview and Use of AI Tool”



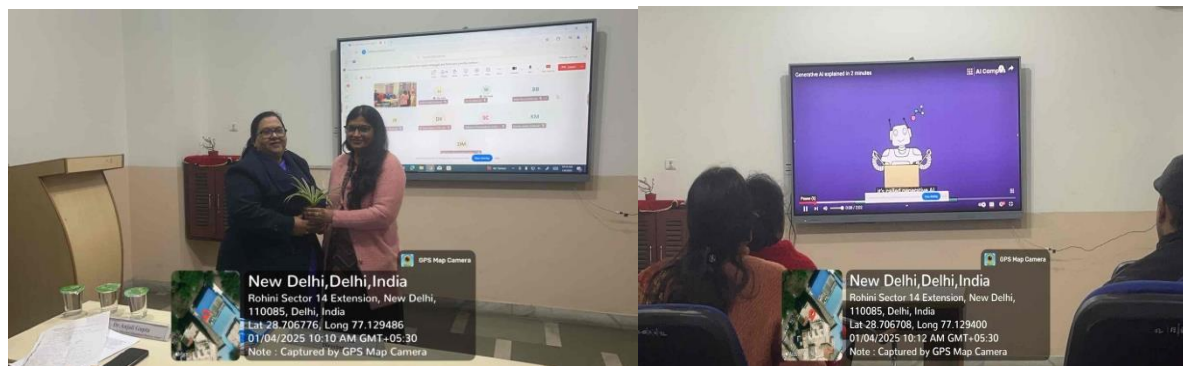
The second half of the session will provide an overview of AI Tools for Abstract and Outline Generation, focusing on how artificial intelligence can assist researchers in streamlining the initial stages of their writing process. Participants explored AI-powered tools that can automatically generate abstracts, research outlines, and summaries based on the key points of a paper. This session covered how to use these tools effectively to draft concise abstracts, structure research

papers, and organize thoughts quickly, saving time and enhancing productivity. Through demonstrations and hands-on activities, attendees gained practical knowledge of how AI can aid in creating well-structured, coherent outlines and abstracts, making the writing process more efficient and focused. The session proved to be highly significant and resourceful to provide an ease and comprehensive understanding in writing Abstract and Outline Generation using AI Tools.

In the last session, Prof. (Dr.) Abhijit Das has taken Hands on Practice session of the above topics in computer lab where participant used AI Tools and generate abstracts and outline of research papers. The day 3 sessions was concluded by giving vote of thanks to the speaker by Dr. Dipti Jain.

Day4: 4th January 2025

Session 1: “AI Content Generation Tool for Research using Jenni and ChatGPT”



Dr. Anjali Gupta, Associate Professor, GIBS began the session by showing a video regarding generative AI which discussed about different AI tools such as Invideo, Suno, FireFlies, Synthesia. She further discussed the impact of Generative AI on Jobs and how AI can enhance productivity at workplace. Further, she also emphasized on Risks, Limitations, Ethical Consideration and Responsible Implementation of Generative AI. Her 2nd presentation which focused on Academic writing and power of AI and also how to incorporate ChatGPT for generate content ethically. In her 3rd presentation, she highlighted the use of Artificial Intelligence (AI) in Manufacturing and Automotive Industry. She discussed about the Impacts and Benefits of AI in Auto motive Industry.

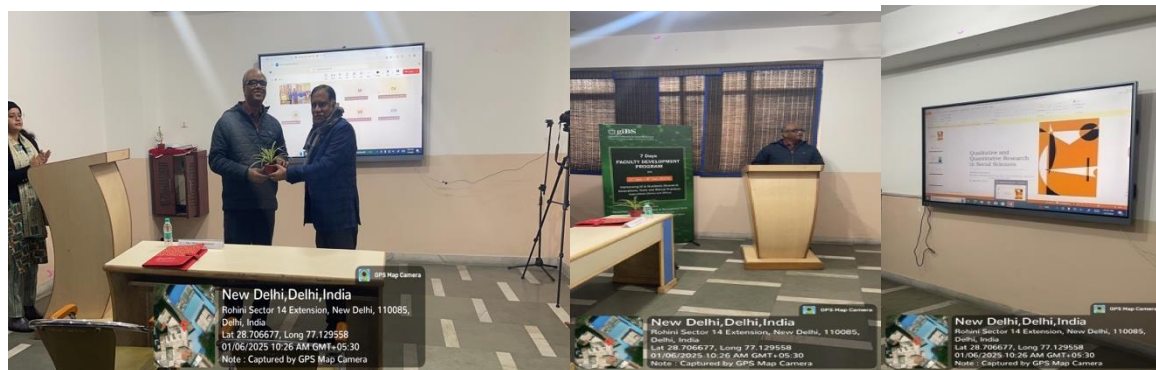
Session 2 and 3: “Tools for Referencing and Citations: Using Zotero”



The session was conducted by Prof. (Dr.) Abhijit Das to enhance the academic writing and research capabilities of faculty members and scholars. Referencing and citation are integral to academic integrity and use of tools like Zotero streamlines the process, ensuring accuracy and efficiency. The session included a mix of presentations, live demonstrations and interactive Q&A session. The participants were guided through hands-on activities, including importing references from academic journals, organizing them into folders, generating citations in real-time using Zotero and Perplexity.

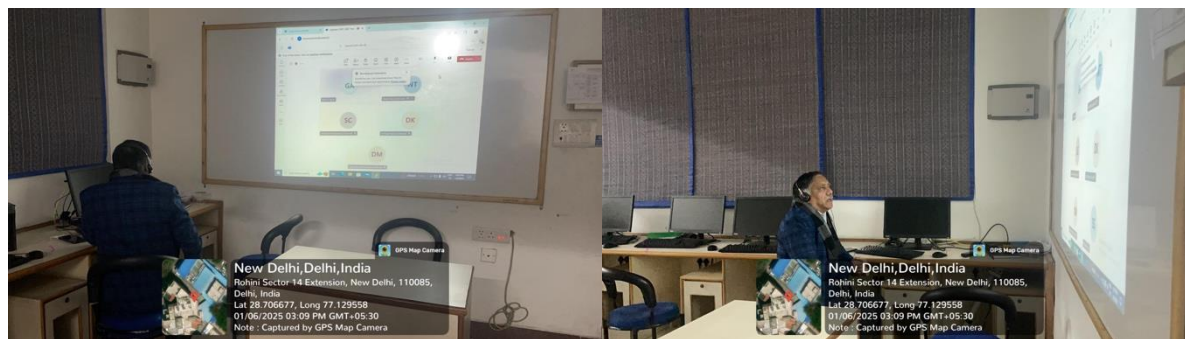
Day 5: 6th January 2025

Session 1: “Broad Theme of Qualitative and Quantitative Research in Social Sciences”



Resource person Mr. Mohan Krishan, Director, AcquinQ was welcomed by Prof. (Dr.) Abhijit Das. Mr. Mohan explained about concept of Qualitative and Quantitative Research in detail. He acquainted the participants with popular approaches of qualitative research such as narrative research, phenomenological research, grounded theory research, ethnographic research and case study research. The speaker showcased the different case studies like Tata Steel, Dr. Morepen Labs, Tata Sampann and Burnol to showcase different aspects of qualitative research to the participants. Mr. Mohan also provided participants an understanding of Quantitative Research in which he focused on Target Market Identification by showcasing case study of brands like Horlicks for pregnant women and Gillette razors.

Session 2 and 3: “AI Content Generation Tool for Research using Sci Space and Elicit”

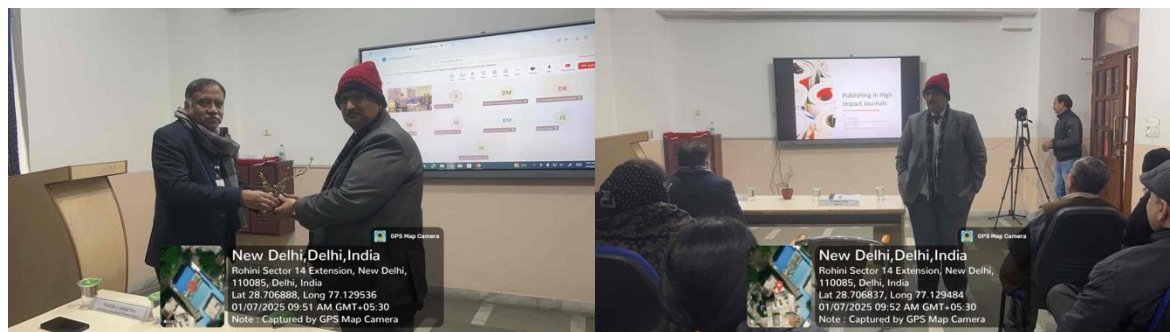


Prof. (Dr.) Abhijit Das, Professor, GIBS started the session with an overview of SciSpace which is a platform that simplifies manuscript preparation by offering AI-driven suggestions for grammar, structure, and formatting, ensuring compatibility with various journals. Participants also learned about Elicit, an AI-powered literature review assistant that streamlines the process of extracting insights, summarizing papers, and identifying research gaps, thereby facilitating focused and efficient research.

In the practical session, participants gained hands-on experience using both tools. They explored SciSpace's features for optimizing manuscripts and learned how to tailor their work to specific journal requirements. Similarly, Elicit was used to perform real-time literature reviews, helping participants organize and summarize key findings from scholarly articles. This interactive workshop provided valuable insights into integrating AI into their research workflow. By bridging theoretical knowledge and practical application, the program empowered researchers to leverage AI effectively, promoting innovation and efficiency in academic research.

Day 6: 7th January

Session 1: “Masking Research Methodology Grants and High Impact Publications”



The sixth day began with the session of Prof. (Dr.) Vikas Nath, Director, GIBS. Prof. Vikas began the session by explaining the importance of publishing research papers in High Impact and Indexed Journals in today's academic realm. He gave an overview of meaning, types and calculation of Impact Factor. Further, he also familiarized the participants with concepts of Cite score, Eigen Factor, H-5 Index, SJR, SNIP and types of Impact Metrics. He also dealt with topics like how to select a journal and what precautions should be taken by authors while selecting a journal. Prof. Vikas also focused on Problem-Solution Matrix for publishing research papers in High-Impact

Journals. The session concluded with an interactive question-answers by the participants. All the participants seemed enlightened by the session.

Session 2 and 3: “AI tools for Data, Collection, Analyses and Visualization”



The afternoon session of the FDP focused on a hands-on workshop, where participants gained practical experience using Tableau for data collection, analysis, and visualization. Under the guidance of Prof. (Dr.) Kanaka Balasubramanian, Professor, GIBS, attendees learned to import datasets from various sources and prepare data for analysis using Tableau’s AI-driven features, such as data blending and handling missing values. They explored techniques for creating calculated fields, applying filters, and using forecasting and clustering tools for predictive analysis. The session emphasized designing effective visualizations like bar charts, heatmaps, and interactive dashboards, allowing participants to work on real-world datasets and develop their own dashboards. This interactive session provided valuable insights into harnessing Tableau for research and teaching purposes.

Day7:8th January 2025

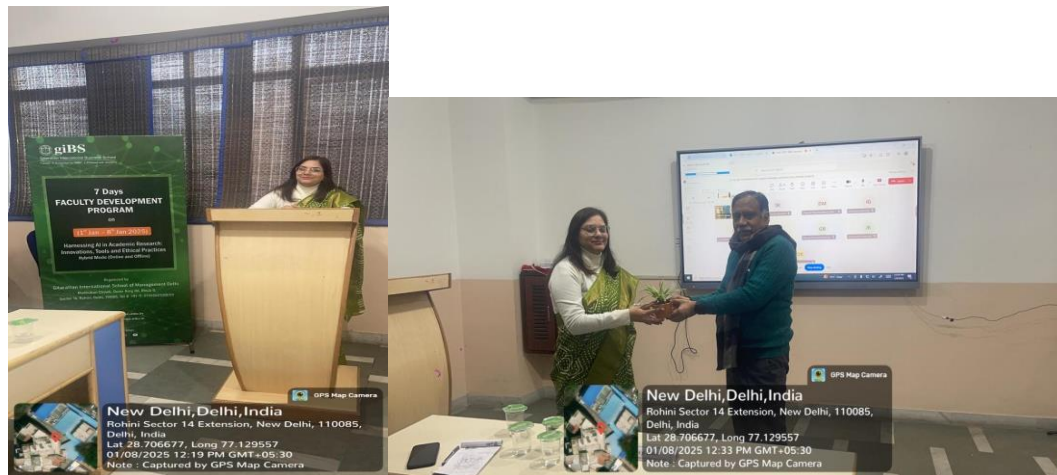
Session1: “How to Write a Synopsis & Research Report”



The session was taken by Prof. (Dr.) Urvesh Choudhary, Professor, GIBS. The Session was focused on enhancing participants' skills in writing effective synopses and research report summaries. The session covered the importance of concisely summarizing research objectives, methodologies, findings, and conclusions for all the participants. Participants were guided through the process of drafting clear, structured synopses and abstracts that capture the essence of their research while maintaining clarity and brevity. Emphasis was placed on tailoring the content for

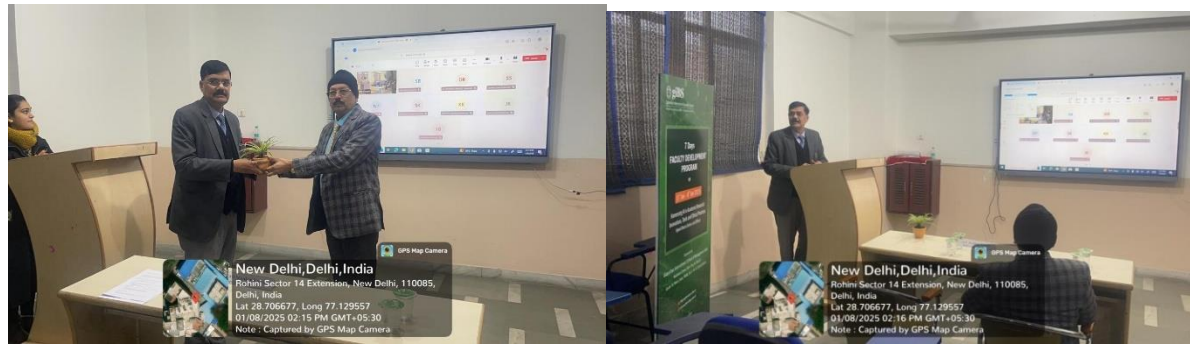
specific purposes, such as publications, presentations, or research proposals, to improve communication of complex ideas in an accessible format.

Session 2: “Issues in Copyright Act”



Ms. Ramandeep Kaur, Assistant Professor, GIBS was the speaker for this session. She was introduced and welcomed by Ms. Prachi Gupta. She explored the complexities of copyright laws in the digital age. The session covered key aspects of the Copyright Act, including intellectual property rights, the protection of original works, and the challenges posed by digital reproduction and online distribution. Participants gained insight into common legal issues, such as plagiarism, fair use, and the implications of copyright infringement. The session also addressed evolving concerns around software, media content, and educational materials, emphasizing the need for faculty to understand copyright laws to ensure proper use and protection of creative works in academic settings.

Session 3: “Ethical Consideration and Managing Research Fraud: Plagiarism, AI and content”



The session was taken by Mr. Ravi Shankar Kumar, Senior Advocate, Supreme Court of India. He was welcomed by Dr. BK Yadav. He delved into the ethical challenges faced by researchers, particularly regarding plagiarism, the use of AI in research, and the integrity of academic content. Participants explored the impact of AI-generated content on research authenticity and discussed strategies to detect and prevent plagiarism. Emphasis was placed on fostering a culture of ethical research practices, understanding the consequences of research fraud, and promoting transparency in academic writing. The session aimed to equip faculty with tools to maintain academic integrity while navigating the evolving landscape of research technologies.

The winter FDP proved to be highly significant and resourceful to provide an ease and comprehensive understanding in conducting various research works. With this FDP Ended by vote of thanks by Dr. B.K. Yadav.

FLYER OF THE EVENT




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**7 Days
 FACULTY DEVELOPMENT
 PROGRAM**
 on
**Harnessing AI in Academic Research:
 Innovations, Tools and Ethical Practices**
 Hybrid Mode (Online and Offline)
(1st Jan - 8th Jan 2025)
 Organized by
 Gitarattan International School of Management Delhi
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TYPE OF EVENT	Winter FDP
VENUE	Room No. 312 and Lab No. 202 Google Meet (For Online Session)
TIME & DURATION	10 am- 4 pm
CONDUCTED BY	CMS and CLS-GIBS
ORGANISED FOR	Faculty Members/ Research Scholars/ Industry persons
NAME OF THE COORDINATOR	Dr. Dipti Jain, Dr. Chetna Mahaur, Dr. B.K. Yadav, Dr. Nidhi Sharma
ATTENDANCE	31 (External Participants), 40 (Internal Faculties)

<p>RESOURCE PERSON</p>	<ol style="list-style-type: none"> 1. Prof. (Dr.) Urvesh Chaudhery, Professor, GIBS 2. Prof. (Dr.) Abhijit Das, Professor, GIBS 3. Dr. Seema Malik, Associate Professor, Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan 4. Dr. Anjali Gupta, Associate Professor, GIBS 5. Mr. Mohan Krishan, Director, AcquinK 6. Prof. (Dr.) Vikas Nath, Director, GIBS 7. Prof. (Dr.) Kanaka Balasubramanian, Professor, GIBS 8. Ms. Ramandeep Kaur, Assistant Professor, GIBS 9. Mr. Ravi Shankar Kumar, Senior Advocate, Supreme Court
<p>OBJECTIVES OF THE EVENT</p>	<ol style="list-style-type: none"> 1. To introduce participants to the significance of AI in academic research, exploring its impact on research methodologies and academic disciplines. 2. To provide hands-on training on AI-powered tools for literature reviews, content generation, presentation creation, and referencing management, enhancing participants' research productivity. 3. To develop participants' skills in applying AI tools for systematic literature reviews, bibliometric analysis, abstract generation, and citation management, fostering practical knowledge for academic research.
<p>LEARNING OUTCOMES</p>	<ol style="list-style-type: none"> 1. Participants gained a comprehensive understanding of AI applications in academic research and become proficient in using AI-assisted tools for literature reviews and data analysis. 2. Attendees acquired practical skills in conducting Systematic Literature Reviews (SLR) and performing bibliometric analyses to enhance their research quality. 3. Participants learnt to use AI tools for creating structured abstracts, outlines, and content generation, improving research efficiency and output quality. 4. Researchers adapted at managing references and citations using tools ensuring accurate and efficient research documentation. 5. Participants developed a strong ethical awareness of AI usage, effectively addressing plagiarism concerns and

	staying informed about emerging trends in AI-driven research methodologies.
SHORTFALLS, IF ANY	No
LINK TO YOUTUBE VIDEO	Day1: https://youtu.be/PVGO_oVatok Day2: https://youtu.be/TjhE074wB5o Day3: https://youtu.be/sEOwc7Gv7iM Day4: https://youtu.be/OEczp2INAt0 Day5: https://youtu.be/JK-cZPfSEIM Day6: https://youtu.be/V0oY8IDAokQ Day7: https://youtu.be/UW1ZqqMMn2s

**PREPARED & SUBMITTED BY: DR. DIKSHA KHANEJA, ASSISTANT PROFESSOR, GIBS
DR. ANUPAMA SINGH, ASSOCIATE PROFESSOR, GIBS**