

EVENT REPORT

Hands on Session

On

“Data Visualization and Research using Computer Algebra system: A step towards Viksit Bharat @2047”

By

Department of Mathematics

In Collaboration with

IQAC

The Department of Mathematics, in collaboration with IQAC, organized a hands on session on March 18, 2024, focusing on the theme of data visualization and research using computer algebra systems. The session, held in Computer Lab 5, witnessed the participation of 55 enthusiastic attendees eager to delve into the subject matter. Dr. Jyoti Bhola, a distinguished Professor at Hansraj College, University of Delhi, with 18 years of teaching expertise, led the session, providing invaluable insights into the topic. The convener of the event was Dr. Anu Sharma (Department of Mathematics).

Throughout the session, Dr. Bhola covered various significant topics, beginning with a discussion on 'Viksit Bharat' or the 'Golden Period', emphasizing the role of mathematics in contributing to the nation's growth. She highlighted the importance of innovation and solutions stemming from mathematics students and professionals, emphasizing their relevance to everyday life. Additionally, Dr. Bhola underscored the significance of technological research in societal development, motivating attendees to explore this avenue further.

A pivotal aspect of the session was the exploration of the online version of Mathematica for research purposes. Dr. Bhola encouraged participants to extend their research beyond syllabus constraints, leveraging tools like Mathematica to enhance their analytical capabilities. She

elaborated on the importance of visualization through Mathematica and its integration with Google, offering insights into free form input and essential keywords utilized in Mathematica coding.

Moreover, Dr. Bhola facilitated an interactive and engaging session, fostering active participation from attendees. She shared insights from a research paper titled "Effects of Computer Algebra Systems on Concept and Skill Acquisition in Calculus", shedding light on the transformative impact of such systems in educational contexts. The session concluded with hands-on exercises, motivating participants to apply the knowledge gained and explore research papers, particularly focusing on COVID-related studies, to inspire further research initiatives.

A vote of thanks was extended to respected Principal Ma'am Prof. (Dr.) Harpreet Kaur and the organizing committee for their efforts in orchestrating a successful event. The session was deemed a resounding success, leaving participants feeling enlightened and inspired. Dr. Bhola's expertise and the collaborative efforts of the organizers contributed to a fruitful and enriching experience for all attendees.

Moving forward, participants are motivated to apply the knowledge gained to contribute positively to research endeavors and societal growth, guided by the principles and techniques shared during the session. Further collaborations and similar events are anticipated to foster continuous learning and innovation within the academic community.



