



Pt. Prithi Nath (P.G.) College, Kanpur

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152

3.2.2: Number of workshops/seminars/conference including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship (Session: 2022-23)

Report on Invited Talk on "*Research Methodology in Fixed-Point Theory*"

Date: 08th May, 2023

Venue: Lecture Room 12

Organising Secretary: Dr. Maninder Singh Arora,
In-charge, Department of Mathematics

Speaker: Dr. Ajeet Kumar,
Department of Mathematics, V.S.S.D. College, Kanpur

Title: "*Research Methodology in Fixed-Point Theory*"

Audience: Students of M.Sc. Mathematics, research scholars and faculty members of
Mathematics department.

The Department of Mathematics, P.P.N. (P.G.) College, Kanpur, organized an enlightening invited talk on the 8th of May, 2023. The distinguished speaker for the event was Dr. Ajeet Kumar, a renowned expert in the field, working as Assistant Prof, Mathematics in VSSD College, Kanpur.

Talk Overview:

Dr. Ajeet Kumar's talk delved into the fascinating world of Fixed-Point Theory and its applications across various branches of mathematics. The title of the talk, "Introduction and Applications of Fixed-Point Theory in Various Branches of Mathematics," aptly captured the essence of the presentation.

Audience:



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The target audience for this invited talk comprised the students pursuing their Master's degree in Mathematics (M.Sc.), research scholars and faculty members. The choice of audience ensured that the content was pitched at an appropriate level, providing both depth and breadth in the subject matter.

Content Highlights:

Dr. Ajeet Kumar began by introducing the fundamental concepts of Fixed-Point Theory, elucidating its theoretical underpinnings. He seamlessly connected these abstract concepts to real-world applications across diverse mathematical disciplines, including Analysis, Topology, and Algebra. The talk was structured in a manner that facilitated understanding for students with varying levels of familiarity with the topic. Dr. Ajeet Kumar employed illustrative examples and presented practical applications to enhance comprehension.

Engagement and Interaction:

The session was not just a one-way communication but encouraged active participation from the audience. Dr. Ajeet Kumar welcomed questions and discussions, creating an interactive and engaging atmosphere.

Fruitfulness to Students:

The invited talk proved to be immensely fruitful to the students of M.Sc. Mathematics and research scholars. It provided them with a deeper understanding of Fixed-Point Theory and showcased its versatility in solving problems across different mathematical domains. The practical applications elucidated by Dr. Ajeet Kumar not only enriched their theoretical knowledge but also highlighted the real-world relevance of the subject. The interactive nature of the session allowed students to clarify doubts, seek further explanations, and engage in meaningful discussions.

He explained how a variety of mathematical analysis problems, including those involving split feasibility, variational inequality, nonlinear optimization, and problems establishing the existence of solutions to integral and differential equations, can be solved with the help of fixed-



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point theory. The beautiful illustration of Banach's fixed point theorem by the speaker remained the highlight of the talk. This direct interaction with an expert in the field enhanced their learning experience and broadened their perspective on the applications of Fixed-Point Theory.

One of the noteworthy outcomes of Dr. Ajeet Kumar's invited talk was the palpable motivation instilled in the students to pursue research in the field of Fixed-Point Theory.

His engaging presentation, which seamlessly blended theoretical concepts with practical applications, inspired a sense of curiosity and enthusiasm among the students and research scholars.

Conclusion:

In conclusion, the invited talk by Dr. Ajeet Kumar was a resounding success, offering an insightful exploration of Fixed-Point Theory and its applications. The Department of Mathematics at PPN College is grateful to Dr. Ajeet Kumar for sharing his expertise and contributing to the academic enrichment of the students. This event not only expanded the students' knowledge but also fostered a spirit of curiosity and inquiry within the academic community. The Department looks forward to organizing more such enlightening sessions in the future.



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Department of Mathematics

P.P.N. (P.G.) COLLEGE, KANPUR

Under the Aegis of Internal Quality Assurance
Cell (IQAC)

Presents

One day invited talk for post graduate students,
research scholars & faculty members

Research Methodology in Fixed-Point Theory

8th May, 2023 (12:00 pm - 2:00 pm)



Speaker
Dr. Ajeet Kumar

Assistant Professor, Department of
Mathematics, V.S.S.D. College, Kanpur



Prof. Anoop Kumar Singh
Principal

P.P.N. (P.G.) College, Kanpur

Dr. Maninder Singh Arora
In-charge, Department of
Mathematics,
P.P.N. (P.G.) College, Kanpur

Prof. Abha Singh
Convener
IQAC
P.P.N. (P.G.) College, Kanpur

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Invited Lecture on "Research Methodology in Fixed-Point Theory" organized by Dept. of Mathematics,
08.05.2023



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Some Glimpses of the Event



Figure 1 Department in-charge Dr. M. S. Arora welcoming invited speaker and the audience

Figure 2 Invited Speaker Dr. Ajeet Kumar addressing the audience

Figure 3 Dr. Tarannum Siddiqi with research scholars and post graduate students of the department

Figure 4 Dr. Tarannum Siddiqi presenting sapling to the invited speaker