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Higher Education Department
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OFFICE OF THE PRINCIPAL

SHAHEED HIMAYUN MUZZAMIL MEMORIAL
Govt. Degree College, Anantnag

Convener IQAC

Report on Guest Lecture

Topic: *Drug Designing and Its Applications*
Organized by: PG Department of Chemistry, SHMM Government Degree College Anantnag
Date: 29th September 2025
Guest Speaker:Dr. Shabir Ahmad Ganai, Senior Assistant Professor-cum-Scientist, Biochemistry, SKUAST-Kashmir, Jammu and Kashmir, India

The Postgraduate Department of Chemistry, Government Degree College Anantnag, organized a guest lecture on the theme *"Drug Designing and Its Applications"* on September 29, 2025. The event was graced by the presence of Prof. Mir Shabir, the Head of the Department of Chemistry, esteemed faculty members, and students from various science departments.

The program commenced with the moderator's address by Dr. Irshad Ahmad Wani, Assistant Professor, Department of Chemistry, who extended a warm welcome to the dignitaries and participants. Bouquets were presented to the guest speaker and the Head of the Department of Chemistry as a gesture of respect and appreciation.

The distinguished guest, Dr. Shabir Ahmad Ganai, is a well-known biochemist and researcher. He completed his Master's in Biochemistry from Bangalore University, his Ph.D. from SASTRA University, Tamil Nadu (supported by the Ministry of AYUSH, Government of India), and a postdoctoral fellowship at the National Brain Research Centre, Haryana, funded by the Department of Biotechnology, Ministry of Science and Technology. Currently serving as Senior Assistant Professor-cum-Scientist in Biochemistry at SKUAST-Kashmir, Dr. Ganai has made remarkable contributions in the field of biochemistry and drug design, with numerous international publications and prestigious recognitions to his credit.

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Dr. Ganai delivered an enlightening and thought-provoking lecture on *"Drug Designing and Its Applications."* He outlined how the field of drug designing has evolved from conventional trial-and-error methods to the modern era of rational, structure-based, and computational drug design.

The lecture focused on:

- The integration of chemistry, biology, and computational sciences in developing new therapeutic molecules.
- The fundamental concepts of target identification, molecular docking, and simulation studies.
- Real-world case studies illustrating the success of rational drug design.
- Major challenges in drug discovery, including toxicity, high cost, and regulatory barriers.

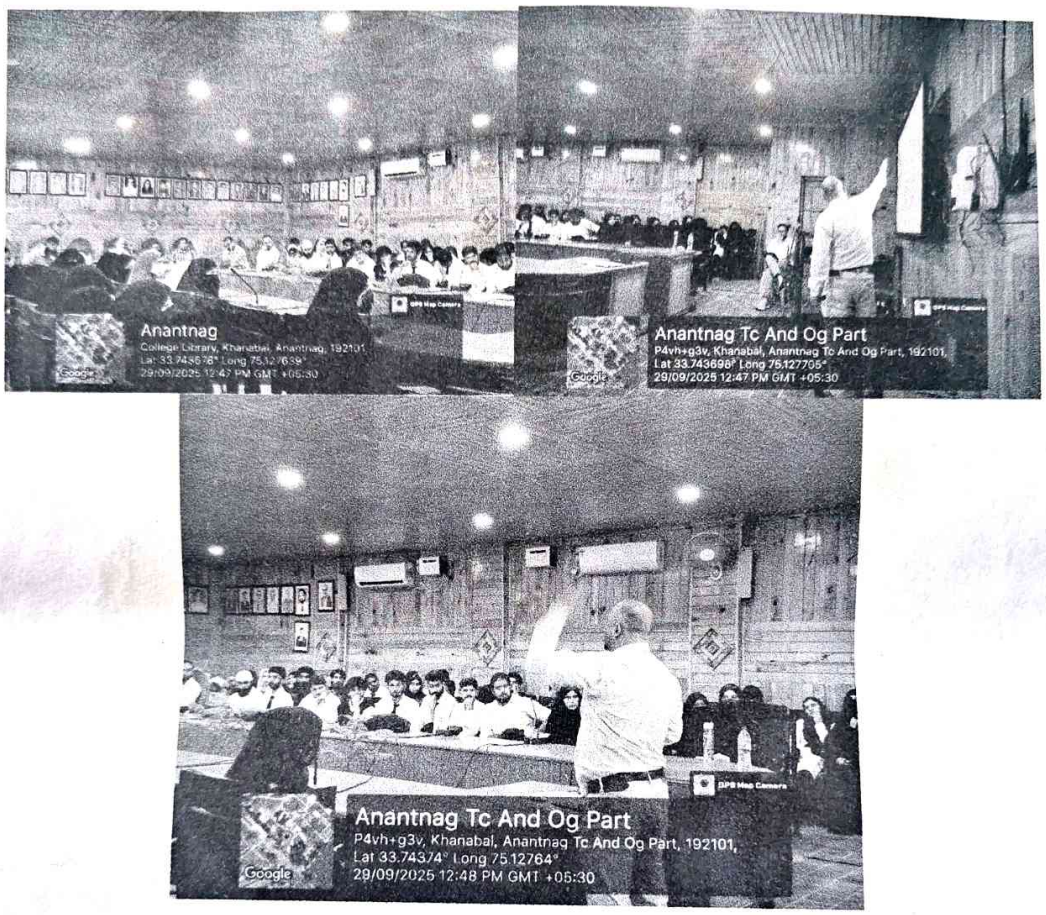
The lecture was followed by an engaging Q&A session, during which students and faculty members posed insightful questions regarding the future scope, career opportunities, and interdisciplinary prospects in the field of drug design. Dr. Ganai responded to each query most lucidly and satisfyingly, offering valuable guidance on research directions, skill development, and emerging trends in computational and pharmaceutical sciences. The interaction created an inspiring atmosphere and greatly motivated the audience to explore this dynamic field further.

After the lecture, Prof. Mir Shabir, Head of the Department of Chemistry, felicitated the guest speaker with a memento as a token of respect and gratitude. In his valedictory address, Prof. Mir Shabir lauded the speaker's scholarly contribution and emphasized the importance of exposing students to cutting-edge developments in science and technology. He also commended the Department of Chemistry for successfully organizing such an intellectually stimulating event.

The event concluded with a formal vote of thanks delivered by Dr. Irshad Ahmad Wani, Assistant Professor, Department of Chemistry. He expressed heartfelt gratitude to Dr. Shabir Ahmad Ganai for his inspiring lecture, to Prof. (Dr.) Mushtaq Ahmad Malik, Principal, for his support and encouragement, and to Prof. Mir Shabir, faculty colleagues, organizing committee, and students for their cooperation and active participation.

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The guest lecture by Dr. Shabir Ahmad Ganai proved to be a deeply enriching academic experience. It not only enhanced participants' understanding of modern drug designing but also ignited curiosity among students to pursue research in the intersection of chemistry, biology, and computational sciences.



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