

**GUEST LECTURE
ON
“NMR SPECTROSCOPY”
(16-03-24)**

Department of Chemistry organised a guest lecture on “NMR SPECTROSCOPY” By **Dr. D.Krishna Rao** Scientific officer E, TIFR, Hyderabad, on **16th March, 2024 to the B.Sc., students.** “The lecture attracted a substantial audience, with **105 students** and six esteemed faculty members in attendance.

Dr. Dr. D.Krishna Rao, renowned for his expertise in the field, delivered an enlightening presentation that explored the principles, applications, and advancements in Nuclear Magnetic Resonance (NMR) spectroscopy.

Sir commenced the lecture by elucidating the foundational concepts of NMR spectroscopy, providing clarity on the interaction of atomic nuclei with external magnetic fields and the principles of resonance. His lucid explanations demystified the technical intricacies of NMR instrumentation and data interpretation, catering to attendees with diverse levels of expertise.

Throughout the lecture, he explained the versatility of NMR spectroscopy across a multitude of disciplines, spanning chemistry, biochemistry, medicine, and material science. He underscored the indispensable role of NMR in elucidating molecular structures, investigating chemical reactions, and studying bimolecular interactions, thereby emphasizing its significance as a powerful analytical tool.

Moreover, he offered valuable insights into recent advancements and emerging trends in NMR spectroscopy, including innovative techniques for structural elucidation, dynamic nuclear polarization, and in-cell NMR studies.

This interactive exchange facilitated a collaborative environment for knowledge sharing and exploration, further enriching the learning experience for all participants.

In conclusion, the guest lecture on "NMR Spectroscopy" by Dr. D. Krishna Rao was a resounding success, offering attendees invaluable insights into this essential analytical technique. The Department of Chemistry expresses its sincere appreciation to Dr. D. Krishna Rao for his expertise and contributions, which have significantly enriched the academic discourse on NMR spectroscopy.



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Guest Lecture
By
Dr. D. Krishnarao,
Scientific officer E, TIFR, Hyderabad.

16-3-24 @ 3pm

Guest lecture on
NMR Spectroscopy