



October 16, 2026

IUST holds lecture on Quantum Materials

Awantipora, Oct 15: The Centre of Excellence for Semiconductors and Quantum Materials (CoESQM), Islamic University of Science and Technology (IUST), hosted a distinguished lecture titled '*Quantum Materials: Real Yet Surreal — From Fundamental Quantum Physics to Real-World Possibilities*' at the Rumi Library, IUST, on Thursday.

The lecture was delivered by Prof. N. S. Vidhyadhiraja, an eminent theoretical physicist and Professor and Chair of the Theoretical Sciences Unit at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru.

The programme commenced with a formal opening address, followed by an overview of CoESQM by Dr. Romana Yousuf, who highlighted the Centre's vision, objectives, and commitment to advancing research and innovation in semiconductors and quantum materials. Dr. Farooq Hussain Bhat, Dean of the School of Sciences and Director of FRIIS, welcomed and introduced the distinguished speaker. He also highlighted the significance of quantum materials from the perspectives of fundamental research and their potential technological applications.

In his insightful lecture, Prof. Vidhyadhiraja explored the fascinating interplay between fundamental quantum physics and emerging technological possibilities. He explained how quantum materials exhibit extraordinary physical properties arising from strong electronic correlations and collective quantum interactions, highlighting the fundamental roles of quantum superposition and entanglement in shaping their behaviour. The lecture provided deeper insights into how abstract quantum phenomena give rise to complex, often counterintuitive, physical properties.

The concluding remarks were delivered by Prof. Sheikh Ajaz, Dean Academic Affairs, IUST, who expressed his appreciation for the speaker's engaging presentation and the valuable insights shared with the audience. He felicitated Prof. Vidhyadhiraja with a memento as a token of appreciation and respect. The programme concluded with a formal vote of thanks delivered by Dr. Rabia Hassan, Ramanujan Fellow, FRIIS.

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