

DEPARTMENT OF ELECTRICAL ENGINEERING

Expert Talk on "Energy Market" by Dr. Satish Sharma

An expert lecture on the topic "Energy Market" was conducted by **Dr. Satish Sharma**, Assistant Professor from **Malaviya National Institute of Technology (MNIT), Jaipur** on 2nd April 2025, Wednesday, from 12:30-2:00 p.m. at Electrical Department Seminar Hall (6F-L8). The session, lasting 90 minutes, witnessed active participation from nearly **100 students** from electrical department with an interest in power systems and energy economics.

Dr. Sharma began the session with an introduction to the structure of electricity markets, explaining the transition from traditional vertically integrated systems to competitive electricity markets. He elaborated on the key components of the electricity market, including generation, transmission, distribution, and retail. The importance of deregulation and its impact on efficiency and pricing mechanisms was discussed in detail.





Swami Keshvanand Institute of Technology, Management &
Gramothan, Jaipur
Department of Electrical Engineering
विद्युत् अभियांत्रिकी विभाग



A significant portion of the lecture focused on **day-ahead markets**, **real-time markets**, and the role of **Independent System Operators (ISOs)** and **Regulatory Commissions**. Dr. Sharma also highlighted recent developments in the Indian electricity market, including the role of renewable energy integration and the challenges it poses for market stability and pricing.

Students were highly engaged throughout the session, with a vibrant Q&A segment at the end. Dr. Sharma addressed queries on demand forecasting, market-based ancillary services, and the impact of energy storage on market design. The session was not only informative but also encouraged students to explore research opportunities in the field of energy markets.

Overall, the lecture provided valuable insights into the dynamic and evolving domain of electricity markets, blending theoretical concepts with real-world applications. The department expresses its sincere gratitude to Dr. Satish Sharma for sharing his expertise and inspiring young minds.