



Shri Yashwantrao Bhonsale Education Society's
**YASHWANTRAO BHONSALE INSTITUTE OF
TECHNOLOGY**

(DTE CODE : 3470) (MSBTE CODE : 1742)

Approved by AICTE, DTE & Affiliated to Mumbai University & MSBTE Mumbai
(NBA Accredited ME, CE, EE Diploma Programs)

Report of Experts lecture on the topic Recent Trends in Power System on Friday, 27th September 2024 .

On 27th September 2024 Electrical Engineering Department organized Expert lecture on the topic Recent Trends in Power System. Session was delivered by Mr. Kapil Kanadesir, AE (MSEDCL) Vaibhavadi

Introduction

The expert lecture on recent trends in power systems, delivered by Kanade Sir, provided an insightful overview of the evolving landscape of energy production, distribution, and management. The session was aimed at students and professionals in the field of electrical engineering and energy management.

Key Topics Covered

Smart Grids:

Emphasis on the transition from traditional grids to smart grids. Integration of advanced metering infrastructure (AMI) and real-time monitoring systems. Benefits such as improved reliability, efficiency, and consumer engagement.

Renewable Energy Integration:

Discussed the increasing role of renewable energy sources (solar, wind, hydro) in power systems. Challenges in grid stability and management associated with variable energy sources. Solutions like energy storage systems and demand response strategies.

Microgrids:

Explained the concept of microgrids as localized energy systems. Advantages of enhancing resilience and enabling decentralized energy generation. Case studies highlighting successful microgrid implementations.

Energy Management Systems (EMS):

Importance of EMS in optimizing energy use and improving sustainability. Overview of software tools and analytics used in managing energy resources efficiently.

Electric Vehicles (EVs):

The impact of electric vehicle adoption on power systems. Strategies for integrating EV charging infrastructure and managing load demands.



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Conclusion

Kanade Sir's lecture was both informative and engaging, offering valuable insights into the future of power systems. Attendees left with a greater understanding of current trends, challenges, and opportunities in the energy sector. The session emphasized the importance of innovation and adaptability in addressing the evolving demands of energy consumption and production.

Glimpse Of the Event:



Prof. S.P.Acharekar
HOD Electrical Department

Dr. Raman Bane
Principal-YBIT