**Tentative Course Outline**

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| **S.No.** | **Topics** |
|  | Introduction to Electrical Power system, Transmission & Distribution System reforms and challenges |
|  | Renewable Energy Sources: Wind/Solar – Characteristics and technology development |
|  | Challenges in modern power systems: Evolving grid architecture with renewable energy sources, Grid integration of RE sources: impact assessment & operational challenges |
|  | Energy Management System and Micro Grid Stability |
|  | Concept of Microgrids & Distributed Generation, Power Balance analysis and Network Topology |