







OFFICE OF CONSULTATION & TRAINING
College of Engineering and Petroleum

Kuwait University- College of Engineering & Petroleum – Electrical Engineering – OCT



EE003- Electricity Markets

Contact

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Training course duration:

Five days

Timing:

9 a.m. – 3 p.m.
Daily

Course objectives

This course introduces the structure and operation of electricity markets, focusing on the transition from vertically integrated systems to market-based coordination. Participants will understand how supply and demand are balanced through energy markets, capacity mechanisms, and ancillary services, and how physical system constraints shape market outcomes and pricing. The course also examines key challenges as well as the role of government intervention and regulation. By the end of the course, participants will be able to evaluate market designs and assess the trade-offs between efficiency, reliability, and public interest.

Course outline :

Day one topics:

Electricity Sector Structure & Market Evolution

- Traditional electricity sector structure
- Drivers for reform
- Market concepts and participants

Day two topics:

Energy Markets

- Market structure and operation
- Supply and demand interaction



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- Market clearing mechanisms
- Day-ahead and real-time markets

Day three topics:

Transmission & Pricing

- Role of transmission systems
- Network constraints
- Pricing mechanisms

Day Four topics:

Capacity & Ancillary Services

- Reliability mechanisms
- Capacity concepts
- Ancillary services

Day Five topics:

Market Challenges & Policy Considerations

- Market performance
- Investment considerations
- Role of regulation and policy

Fees:

(To be determined)

Instructor:

Dr. Abeer Almaimouni
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Kuwait University