Centre for Energy Regulation

Department of Management Sciences
Indian Institute of Technology Kanpur
Kanpur - 208016

Regulatory Certification Program
Power Market Economics and Operation

Centre for Energy Regulation (CER) at IIT Kanpur has been engaged in capacity building and supplementing regulatory research for the power/energy sector. CER's *Regulatory Certification Program* on ***Power Market Economics and Operation*** provides insights to the economic and operational aspects of power market, its products, and their role in the Indian power market. Apart from live sessions, a set of recorded sessions would be hosted at CER's Online Learning Environment and Tools (OLET) platform. Apart from faculty from IIT Kanpur, the sessions for the program would be contributed by leading national and international experts.

Relevance of the Program

- Understand the evolution of power market, and regulatory structure for the same
- Examine the cost drivers for regulation and ancillary services to maintain the grid security
- Understand the economic operation of power market and power procurement planning
- Learning from international experience with power market development
- Address the present and emerging challenges related to power market

Program Outcomes

Conceptual understanding of power market from economics, regulatory and policy perspective

Opportunity to learn best practices from global experts

Develop the ability to understand the emerging needs for better operation of power markets

Understand the operation of power market and its products

Learning Level
Module 1: Fundamental
Module 2: Advanced

Course Duration
25+ hrs (Over 2-3 weeks)

Interactive Learning
Live Interactive Sessions

Course Modules

Fundamental

Economics of Power Market

Advanced

Short–term Power Procurement Planning and Strategy

Evaluation & Certification

- Assessment based on
  - Completion of online content,
  - Participation in online discussions,
  - Performance in Lecture Quizzes
- End of Module Exam
- Award of Certificate

Key Topics

- Power Market Regulation
- Operation of Power Exchanges
- Market Monitoring
- Open Access
- Distributed Energy Market
- Power Procurement Planning
- Ancillary Services
- Congestion Management
- Retail Competition
- Load Forecasting
- Security Constrained Economic Dispatch
- Market Based Economic Dispatch
- Economic Operation of Power System

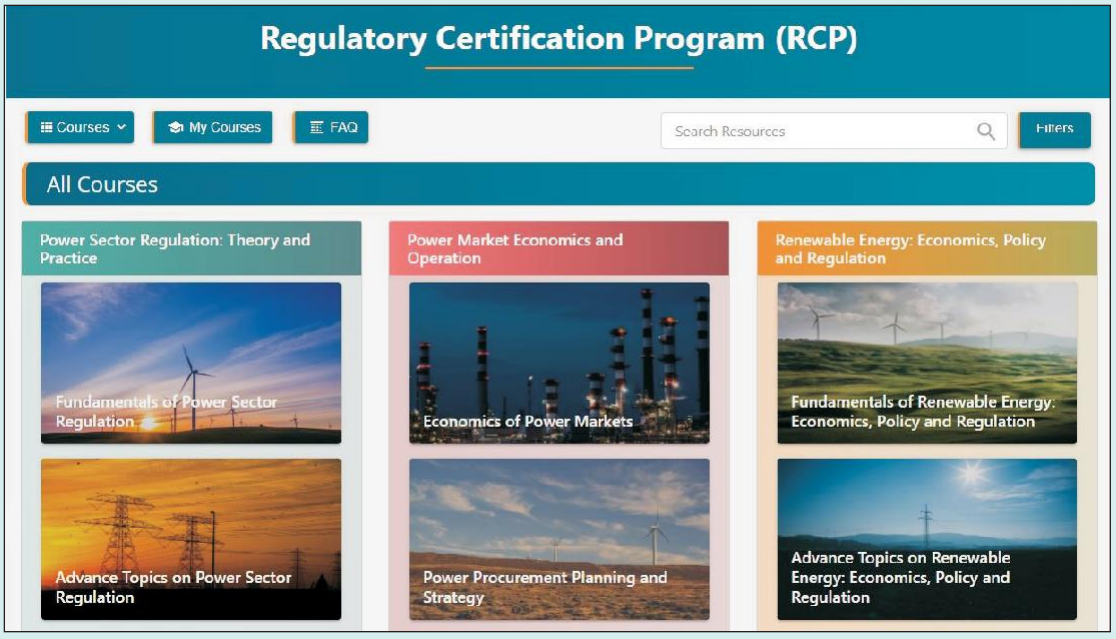
Registration

- The program would be conducted under the aegis of Centre for Continuing Education, IIT Kanpur
- For further information visit **https://cer.iitk.ac.in/RCP**

Who should Apply?

- Officials from Electricity Regulatory Commissions (including Members), Generation Companies, Licensees (including Transmission, Distribution and Trading), Power Exchanges, Financial Institutions, Banks, Consultants/Analysts, Investors, Lawyers, CAs/CS, Faculty, Researchers and Students from Academic Institutions, Consumer Organizations, NGOs and other stakeholders who want to enhance their understanding of this multi-disciplinary area.

Portal: Online Learning Environment & Tools (OLET)



Other Initiatives

ENERGY ANALYTICS LAB
eal.iitk.ac.in

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