



# Centre for Energy Regulation

Department of Industrial and Management Engineering  
Indian Institute of Technology Kanpur  
Kanpur - 208016

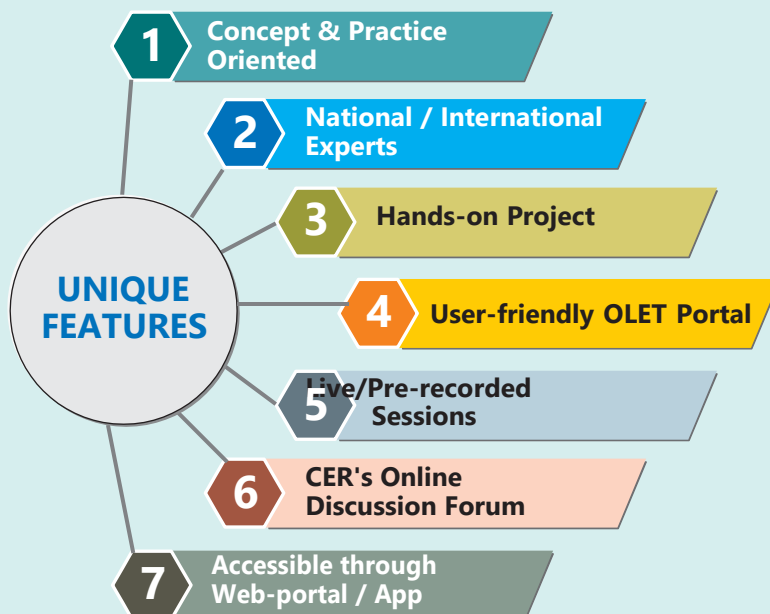


## Regulatory Certification Program Power Market Economics and Operation

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. This would be supplemented with CER's Online Discussion Forum (ODF), enabling discussion among participants on the topics covered under the ongoing programs. 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

About 25 hours



#### Interactive Learning

Additional Interactive Sessions  
Group Project

## 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?

- Commissioners and Officers from Electricity Regulatory Commissions; Stakeholders from Generating Companies, Licensees (Transmission, Distribution and Trading), Financial Institutions, Consultants, Investors, Consumer Organisations and NGOs; Faculty, Researchers and Students from Academic Institutions; and other stake holders who want to enhance their understanding of this multi-disciplinary area.

## Portal: Online Learning Environment & Tools (OLET)

**Regulatory Certification Program (RCP)**

Navigation: Courses, My Courses, FAQ

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**All Courses**

- Power Sector Regulation: Theory and Practice**
  - Fundamentals of Power Sector Regulation
  - Advance Topics on Power Sector Regulation
- Power Market Economics and Operation**
  - Economics of Power Markets
  - Power Procurement Planning and Strategy
- Renewable Energy: Economics, Policy and Regulation**
  - Fundamentals of Renewable Energy: Economics, Policy and Regulation
  - Advance Topics on Renewable Energy: Economics, Policy and Regulation

Supported By



Other Initiatives



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