Power Sector Regulation, Economics and Management

eMpowering Energy Professionals...

2021-22 (Cohort - I)
Department of Industrial & Management Engineering
Established in 1959 by the Government of India, Indian Institute of Technology Kanpur (IIT Kanpur) is a globally acclaimed university for world-class education and research in science, engineering, management, and humanities. We aim to provide leadership in technological innovation for the growth of India.

- Ranked among top engineering colleges by NIRF 2022
- Built on world-class academic research culture
- Offers various undergraduate, post-graduate, integrated, and research programs in the field of engineering, science, management, and design.

The Department of Industrial & Management Engineering has been engaged in regulatory research and outreach activities covering the regulatory and policy dimension of the energy sector continuously with comments on key regulatory and policy documents covering ERCs, MoP, MNRE, CEA, POSOCO, etc. The 'Centre for Energy Regulation' (CER) and 'Energy Analytics Lab' (EAL) setup at the department provide an ecosystem that keeps up to date with the regulatory and policy development in the power sector.
The Indian power sector is undergoing a transition to assimilate clean and green energy sources, and competition across the sector. This being supported with evolving governing structure and changes in regulatory and policy environment in the Indian power sector. The great role of private participation, market institution, renewable energy sources and the dynamic nature of regulatory and policy environment places a challenge to the investors, regulators, market participants to understand the evolving framework from their respective perspective. The eMasters program offered by IIT Kanpur, on “Power Sector, Regulation, Economics and Management” provides an opportunity to learn the principles guiding the regulatory and policy framework, regulatory processes, operational aspects of the across the electricity supply chain. The industry experts, both National as well as International ones, representing the academia and the sector alike, provide an insightful experience. This is supplemented with hands-on exercises, interactive discussions and supervised capstone projects, providing an opportunity to apply the concepts and understand the intricacies of practical implementation.
eMasters in Power Sector Regulations Economics and Management

“For professionals to enhance their qualifications and competencies with a deep-domain specialization from IITK in state-of-the-art areas.”
– Prof. Abhay Karandikar, Director, IIT Kanpur

PROGRAM FEATURES

- Program Structure
- Flexible Program Duration: 1-3 years
- 4 Quarters 12 Modules
- Campus Placement
- Immersive Learning Format
- Online live and self-paced session
- Capstone Projects
- Online Examination
- IIT Campus visit
- Eligibility
- Bachelors or Masters Degree (60% marks or 6 CPI)
- No Gate Score required
- Minimum 2 yrs. work experience

PROGRAM MODULES

- MBA 951: Economics Accounting & Finance
- MBA 952: Power Sector Reforms & Regulations
- MBA 953: Power System Operation & Ancillary Services
- MBA 954: MYT Framework
- MBA 955: Power Market Development
- MBA 956: Smart Grid Technologies & Implementation
- MBA 957: Power Procurement Principles & Practice
- MBA 958: Renewable Energy: Policy, Regulation & Market
- MBA 959: Regulatory Capstone Project-I
- MBA 960: Regulatory Capstone Project-II
- MBA 961: Designing Retail Electricity Tariff
- MBA 962: Power Sector Regulation: International Perspective

For more info, please visit: emasters.iitk.ac.in/powersector
Program Highlights

Industrial Visit

Visit to BSES SCADA Control Room, Delhi
Visit to IEX, Noida

Sessions with Sector Experts

Hands on Exercises

- Market Concentration of different Industries
- ARR & Revenue Gap Calculation
- Tariff determination for Conventional Generating Stations
- Tariff Determined for Renewable Energy Sources
- Determination of Generic Levelized Tariff for Renewable Energy Sources
- Estimating Cost of Service
- Design of Tariff
- Power Procurement Portfolio Management
- Electric Grid and Renewable Energy
- Solarisation of Agriculture Pumps (MP & KESC)
<table>
<thead>
<tr>
<th>Regulatory Capstone Projects</th>
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<tbody>
<tr>
<td>Innovative Business Models for solarisation of agriculture pumps</td>
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<td>Hydrogen Vs Electric Vehicle in transportation sector</td>
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<tr>
<td>Regulatory Assets in Power Sector</td>
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<td>Study of Europe/ US Markets and learning for Indian Market</td>
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<td>Power Market Derivative Contracts</td>
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<td>Promoting RE merchant capacity addition in India</td>
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<td>Time of Day tariff design for Uttarakhand Discom</td>
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<tr>
<td>Review of Standards of Performance Regulation and its Implementation in India</td>
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<td>Development of an algorithm for forecasting of solar generation based on the load survey data from meters and weather parameters</td>
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<tr>
<td>PPA vs Merchant Capacity, risk due to merchant - Lenders perspective (for RE systems)</td>
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<td>Understanding and comparing norms for distribution tariff regulations of different states</td>
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<td>RE &amp; Storage power bundling with thermal and hydro</td>
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<td>Review of DOP on taking TPPs under RSD and Compensation Mechanism due to Part loading</td>
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<td>Designing a Demand Response Program</td>
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<td>Understanding Price Spikes on Power Exchanges</td>
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<td>Renewable Energy Generation Forecasting</td>
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<td>Redesigning of Market to meet the RE targets by 2030</td>
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<td>Demand Response: International Experience</td>
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<td>Review of Intra-state DSM Regulations</td>
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<td>Review of Open Access Regulation across states - OA granted</td>
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<td>Policy Research to Identify Interventions to reduce disputes in Power sector</td>
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<td>Ramping and flexibility in thermal generation</td>
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<td>RE Forecasting &amp; Scheduling and DSM across Indian States</td>
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<td>GNA and its Impact on Indian Power Market</td>
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<td>Development of offshore wind projects in India: Scope, issues, challenges and way forward</td>
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<td>Solarisation of West Bengal</td>
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<td>Critical review of distribution franchisees in Indian Power Sector</td>
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<td>Regulatory Database for effective regulatory performance of regulatory commissions</td>
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<td>Consumer Meter Data Analytics to Generate leads for standard theft pattern</td>
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<td>Theft Analysis for Smart Meter Data</td>
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<td>Innovative Business Models for solarisation of agriculture pumps</td>
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<td>Consumer centric policy design for promoting adoption of EVs in India</td>
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<tr>
<td>Understanding and Comparing Norms for Tariff Regulations - CERC and SERCs</td>
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<td>REC Mechanism: Review and Way Forward</td>
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<td>Promoting Demand Response/Energy Storage through the market mechanism</td>
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<td>Resource adequacy through the Capacity Market</td>
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</table>

For more info, please visit: [emasters.iitk.ac.in/powersector]
Mr. Sushil Kumar Soonee  
Former Advisor & CEO  
Grid Controller of India Limited (formerly POSOCO)

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Central Electricity Regulatory Commission (CERC)

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Joint Secretary, Ministry of Power  
Chairman, Central Electricity Authority (CEA)

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Executive Director, Grid Automation and Communication
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Project Executive Officer
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Dr. Puneet Chitkara
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The Johns Hopkins University

International Experts

Dr. Carl Pechman
Chief Scientist (Analytics, decarbonisation)
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Prof. Jean-Michel Glachant
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European University Institute, Italy
Former FSR Director & Loyola de Palacio Chair

Dr. Tooraj Jamasb
Director
Copenhagen School of Energy Infrastructure (CSEI)

Mr. Vinod Tiwari
Global Head of Business Development & Partnerships
Power Ledger

Ms. Helen Kou
Senior Associate, Energy Storage
BloombergNEF
The pioneer batch of Cohort-I brings together a diverse mix of professionals with varying levels of experience and coming from different sectors including power distribution, transmission, and generation, renewable energy, power market, as well as from the field of policy, regulation and law. The professionals are working with public and private network operators as well as power plant operators which include MSETCL, UPCL, Tata Power, Adani Power, KPTCL, NTPC, Bloom Energy, Amp Energy, Isgec, Brookfield Renewables, etc. Several of them work in consulting, technology, engineering and manufacturing domains with companies such as Deloitte, Climate Connect, HCL Technologies, Siemens, L&T, Maruti Suzuki, Havells, etc. In addition, our group also enjoys participation of officials from Government and semi-Government organizations like MNRE, Department of Atomic Energy, and SECI.

The average working experience of participants is around 8.5 years with over 60% students having experience in the range of 5 to 20 years. About 40% of the program participants hold Managerial positions in their organization, while another 40% are working as executive engineers and consultants. The cohort also includes participants who are in senior management of their organization.
Abhay Sharma
Product Management | Ancillary Services | RE Regulation
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Contract Administrator | Energy Economics | Power Regulation
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(Data as on Dec-22)
Cohort I Profile

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(Data as on Dec-22)
Centre for Energy Regulation is an endeavor towards comprehensive and sustained institutional strengthening in the Indian power sector, seed funded by UK Govt., striven for enhanced academia-utility- regulatory interactions. It is an initiative led by the Department of Industrial and Management Engineering (IME) at IIT Kanpur which is India’s first of its kind dedicated to regulatory research in the energy sector. CER addresses the need to supplement regulatory research and knowledge base to understand and analyze key issues in the power sector. The Centre works in close cooperation with key stakeholders in the Indian power sector particularly the Electricity Regulatory Commissions (ERCs), electric utilities and academia. It also aims to develop a network with institutions in India and abroad. The Centre targets to contribute to policy and regulatory advocacy based on regulatory research utilizing its regulatory knowledge base, comprising of database and learning tools.

CER publishes a quarterly newsletter titled "Regulatory Insights", which brings insights into key national and state-level regulatory and policy development in the Indian Power Sector, accompanied with opinions based on CER’s Regulatory Database analysis.

For more info. please visit: cer.iitk.ac.in

The Energy Analytics Lab (EAL) is an industry supported academic initiative of the Department of Industrial and Management Engineering (IME), IIT Kanpur, seed funded as a CSR project by IEX.

The EAL aims at building power market database and developing learning and visualization tools for the same.

These elements would enable stakeholders to understand various aspects related to power markets and take informed decisions. In particular, this would help decision making for procurement/sale of power, optimal utilization of existing/proposed generation assets (conventional as well as renewable), design of new products for power markets, and support development of a vibrant market for renewable energy certificates (RECs). This would also assist policymakers and regulators to take appropriate initiatives for development of power market, in creating a conducive environment for investment, and meeting the green growth aspirations for the sector. The activities of the EAL would support academic and research endeavors in the department. EAL publishes a quarterly newsletter titled “Power Chronicle” which brings insights into key aspects of Power Market, System Operation, Policy, and Regulatory developments in the power sector, accompanied with an analysis based on operational data.

For more info. please visit: eal.iitk.ac.in
Cohort-I Glimpses

Visit to Grid-India
Visit to IEX
Interaction at BSES
Visit to Grid-India

Recorded Session
Live Interactive Session
Recorded Session

Incentive-Based Economic Regulation of Energy Networks

Recorded Session

Indian Electricity Grid Code
Recorded Session

Live Session

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