

DIPLOMA IN ENERGY MANAGEMENT (DENM):

With the objective of the Government of India to provide 24x7 power across the country by 2019, the government of India has taken several landmark decisions for generation of power, strengthening of transmission and distribution, separation of feeder and metering of power to consumers. Special focus is given to North East by giving approval to the North Eastern Power System Improvement Project and comprehensive scheme for strengthening of transmission and distribution in the North Eastern states. In the reform and restructuring front, various amendments are being brought in the Electricity Act and Tariff policy.

For the power sector, the methodology for e-auction of coal blocks will be completely transparent, encourages greater competition and efficiency and optimizes power tariffs.

Comprehensive state-specific action plans for 24x7 power to all homes is being prepared in partnership with respective states, encompassing generation, transmission and distribution. The power ministry has signed a memorandum of understanding with varied states under its 'Power for all' initiative that aims to cover the entire country soon.

With the support of government and entry of FIIs and private investors there is now a competitive environment in the Indian power sector as organizations are restructured into strategic business units instead of being state-controlled. It is therefore incumbent on state power Utilities to apply business prudence in all decisions and actions. The officials and supervisory cadre's charges with this responsibility will require strong business management skills. The School Management Studies attempts to impart such knowledge and skills through its one-year Post- Graduate Diploma in Energy Management. The objective of this, PGDENM programme is to impart techniques and approaches for managing resources in the most efficient and effective manner in the energy and power sector. Managing an organization unit requires general managerial skills apart from technical knowledge. Important general management traits that a manager should possess include:

Analytical ability, Creativity, Risk-taking ability, planning and controlling, Communication skills, Negotiating skills, leadership skills and facilitation of team work. The programme is designed to develop these traits.

Collaboration: TeamLease EdTech

What You Will Learn:

1. Fundamentals of Energy Systems
2. Sustainable Energy Practices
3. Energy Efficiency and Conservation Techniques

Program Syllabus:

Semester I (21 Credits)

1. Principles of Energy Management (7 credits):

Introduction to Global Energy Systems

Basics of Energy Production, Transmission, and Distribution Energy Policy and Regulation

2. Renewable Energy Sources (7 credits):

Solar, Wind, Hydro, and Biomass Energy Technologies Renewable Energy

Integration and Grid Management Economics of Renewable Energy

3. Energy Audit and Conservation (7 credits):

Energy Audit Techniques and Tools Industrial Energy Efficiency

Building Energy Performance and Green Buildings

Semester II (22 Credits)

1. Advanced Energy Management Systems (7 credits):

Smart Grids and Energy Storage Solutions Demand-Side

Management

IoT in Energy Management

2. Sustainable Energy Policies and Regulations (7 credits):

Environmental Impact Assessment Global and National

Energy Policies

Regulatory Framework for Energy Efficiency

3. Capstone Project in Energy Management (8 credits):

Practical Project on Energy Management or Sustainability Industry or

Research-Based Project Collaboration with Energy Experts and

Professionals

Key Highlights:

1. Comprehensive understanding of energy systems and management

strategies

2. Hands-on experience with energy audits and renewable energy technologies
3. Networking with industry professionals and experts in energy management.

COURSE STRUCTURE:

Term I

ENM 411: Management & Organizational Effectiveness

ENM 412: Accounting & Financial Management

ENM 413: Human Resource Management

ENM 414: Marketing Management

ENM 415: Quantitative and Research Methods

ENM 416: Energy Management for Sustainable
Development -1

Term II

ENM 421: Business Laws including Electricity Act 2003

ENM 422: Decision Support Analysis & Management Information System

ENM 423: Tariff Structure and Analysis

ENM 424: Project Development and Management

ENM 425: Energy Management for Sustainable
Development-II

ENM 426: Project Work