“The B. Tech. programme in Energy Engineering is designed to equip the students with the essential knowledge and skills to take up the energy sector challenges and provide solutions to the problems towards achieving sustainable energy, which is accessible, available, and affordable. Energy is one of the fastest-growing sectors. Energy is in a critical transition from conventional to clean and renewable energy resulting in ample placement opportunities in energy sectors.” Students, who are passionate about taking up career in energy sector, may explore to join the new B. Tech. in Energy Engineering programme being offered by DESE, IIT Delhi.

Salient Features of the Program

1. Opportunity to learn about both renewable and non-renewable energy sources
2. Emphasis on building conceptual clarity, mathematical rigor and hands-on training
3. Holistic coverage of energy-environment interaction
4. In-depth coverage of design development and appraisal of energy projects
5. Focus on technology development through involvement in research projects
6. Excellent alignment with growing demands of industries, academia, and government organizations
7. Facilitation to pursue entrepreneurship and product development

Expertise Available with the Department

- Renewable Energy Technologies
  - Hydro
  - Wind
  - Solar Thermal
  - Solar Photovoltaics
  - Bio-Energy
- Fuels and Engines
  - Alternative Fuels (Ethanol and Hydrogen) and Engines

Key Courses Offered

- Energy Resources & Utilization
- Control systems Automation
- Hydrogen Economy
- Design of Energy Systems
- Energy System Analysis
- Smart Grid Operation
- Network Analysis
- Electrical Machines
- Energy Economics
- Analog & Digital Electronics
- Power Electronics
- Introduction to Plasma Concepts
- Energy Storage
- Building Integrated Photovoltaics
- Smart Devices for Energy Harvesting
- Semiconductors for Energy Systems
- Optimization of Energy Systems
- Nuclear Energy
- Energy Economics
- Intelligent Techniques for Energy Systems
- Energy Storage
- Electrochemical Energy Storage
- Thermal Energy Storage
- Techno-economics of Energy
- Carbon mitigation Energy Planning
- Waste to Energy

Potential Employers

- Nissan
- BMW
- BHEL
- IOCL
- CEL
- RIL
- Adani Solar
- NTPC
- EIL
- GE
- TCS
- Tata
- LG
- Siemens

Many other relevant organizations / Institutions and Industries engaged in Energy sectors.

http://dese.iitd.ac.in  https://youtu.be/23B88zyOCwo  Ask your queries here 👇: https://forms.gle/knhV77m5xrU6QKs6
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Potential Employers

- John Dere
- Schlumberger
- LG Chem
- Applied Materials
- Mahindra
- BCG
- Abbott
- LG Electronics
- Bosch
- Panasonic
- TATA
- ABB
- BMW
- McKinsey & Company
- Smart Joules
- Samsung
- LG Electronics
- Sony
- JPMorgan Chase
- Deloitte
- KPMG
- IOCL
- Thermax
- GM
- IOCL
- AT Kearney
- Bloomberg
- Sterlite Power
- Renault
- Nissan
- Potential Employers
- Potential Employers
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Research Facilities Developed
B. Tech in Energy Engineering
Department of Energy Science and Engineering, IIT Delhi

New Research Facilities Initiated