STUDENT DEVELOPMENT PROGRAM

GreenTree
Define. Design. Deliver

ENERGY EFFICIENCY | RENEWABLES | SUSTAINABILITY | CLIMATE CHANGE

Program Overview

As India's paces towards economic transformation, it also stands committed to its sustainability vision. It would be a daunting challenge, though, to meet the country's US$ 5 Tn economy target while keeping its contribution to climate change in check. However, as per the Bureau of Energy Efficiency (BEE) and UNDP data, lack of technical and managerial skills has long remained one of the critical barriers for energy and resource efficiency adoption in India.This program envisions to develop such capacities among students at the institutional level to make them competent and future-ready for the real-time scenario.
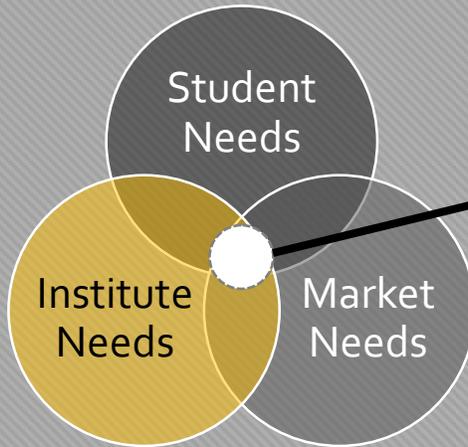
Delivery Content

- Introduction to energy management and climate change (national energy scenario; renewable energy; GHG emissions)

- Commercial interpretation of policies and schemes related to energy efficiency (EE), renewables, climate change, and sustainability (Electricity Act, Energy Conservation Act 2001, National Building Code; MOP/MNRE/MOEFCC schemes)

- Assessment for EE and renewables (Practical energy auditing; on-site assessment for renewables; energy efficiency & renewables simulation; audit for water and waste minimization)

- Greenhouse gas analysis (GHG inventory; life cycle analysis for energy and GHG)

- Financial analysis for energy efficiency project implementation (Introduction to financial analysis; financial modeling; life cycle costing analysis, LCC)

- Practical examples and integration of new-age technologies for EE (Blockchain, IOT, AI, ML, predictive maintenance, IIOT, industry 4.0)

- Job opportunities in the energy sector and how to reach them (for freshers - Engineering, all streams; Management, Architecture; for experienced persons)

Pedagogy: The program is delivered through classroom material and lectures, simulation tools, on-site field visits, and real-time case studies

Content Strategy

- Practical and live case-based learning
- Ability to integrate EE in real-world scenarios
- Job ready for the energy and related sector

Student Needs

Institute Needs

Market Needs

GreenTree designs and delivers its Student Development Program at the cusp of student, institute, and market needs

- Improved student performance in R&D activities, national & international competitions, and placements
- Stronger branding; early adoption of practical-learning-based sustainability courses

- Better prepared students and improved hiring
- Reduced T&D and resource costs

Assessed Impacts

- Value creation for all stakeholders, i.e., students, colleges, and the market (corporates/ employer)

- Long term result: Human resource (technical and managerial) capacity building in the country

- Better Sector Decision Making →Increased Energy Productivity and Efficiency→ Enhanced Capabilities to Address Climate Change

For more info:

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