

Zero Energy

Day I

Green Building Science: An Overview [3 Hrs]

Introduction/ Definition(s)/ Concept
Landscape and Sustainability
Water and Waste Management
Materials and Resources
Indoor Air Quality
Energy Management
Break

Net Zero Energy Building [3 Hrs]

Introduction/ Definition(s)
Types of Net Zero Concepts
Site Optimization
Building Fenestration & Envelope
Thermal Performance & Comfort
Alternative Energy Sources
Prerequisite of Demand/ Supply
Case Studies

Discussion and queries [1 Hrs]

Day II

Demand Side Energy Management [2 Hrs]

Site Improvement
Facade Optimization
Built Space Melioration
Building Simulation using Ecotect & eQuest [3 Hrs]

Context Weather File Integration
Orientation Optimization
Fenestration Simulation
Shadow Analysis
Energy Analysis
Calculation & Reports
Break

Regulatory Bodies & Compliance [1 Hrs]

NBC Guidelines

ECBC Guidelines

GRIHA & IGBC Compliance(s)

Central & State Govt. Subsidies & Schemes

Test & Certification [1 Hrs]