

Brief Contents of STCs 2018-19

Operational Plan Number	RD-13
Name of the Course	Green and Sustainable Building
Introduction and Objectives of the Course	<p>The importance of energy efficient buildings has assumed great importance today. In light of fast depleting energy resources, energy scarcity and increasing environmental pollution, innovative ways to cut down energy consumption are necessary. The construction industry sector is one of the largest energy consuming sectors. In modern buildings, significant amount of energy is consumed to keep the building environment comfortable. Estimates suggest that about 20 to 25 percent of the total energy demand is due to manufacturing materials required in the building sector, while another 15 percent goes into the running needs of the building like lighting, air-conditioning, room heating and ventilation etc. Increased development of housing and commercial buildings has imposed immense pressure on our dwindling energy sources. The availability of energy is limited and known resources of energy are exhausting fast. Therefore, energy efficiency is assuming importance in different sectors. In view of the global energy crisis energy efficiency and energy management are essentially required all the sectors in general and construction sector in particular.</p>
Course Contents	<ul style="list-style-type: none"> • Overview of Energy efficient buildings • Solar Devices and their Utilization • Rain Water Harvesting • Energy efficient building materials and their applications • Solar Passive Architecture • Main Features and concept of Green Buildings • Energy Conservation Building Codes (ECBC)
Name of Course Coordinator with e-mail ID & Contact No.	<ul style="list-style-type: none"> ▪ Er. Amit Goyal, amitgoyalmit23@gmail.com. amitgoyal@nitttrchd.ac.in Tel: 0172-2759728, 9417569559