

5 day training **PROGRAM**

on Integration of
Renewable Energy
to combat climate change



24rd to 28th
February 2020

Organised by
R.V. College of Architecture®



Aim & Objective

The aim of organizing the training program is to build capacities amongst Engineers, Architects, Urban Planners, Policy Makers, to combat climate change through integration of renewable energy in architectural design and built environment.

The objective is to build capacities of architecture professors, students and practising consultants in the field of Renewable Energy and Energy Efficiency. The Program also aims to realise integration of energy efficiency and renewable energy into the core curricula of architecture, engineering programs across India, so that the young workforce could build India as an Energy Secure country.

Background

Cities are going to house 40 percent of India's population by 2030. As per 2010 McKinsey report, 700 to 900 million square meters of commercial and residential space or a new Chicago every year is yet to be built.

The Government of India has set a target of 175GW of renewable energy capacity by the year 2022, which includes 100GW from solar, out of which 40GW is to be generated from roof top solar or on site solar energy generation in buildings. Similarly, target for a solar thermal collector (mainly to be installed on buildings) installed area is set at 20 million m² by 2022.

It is envisaged that the training program will contribute in a small way for Government of India to meet its mission.

Inviting

Architecture & Engineering

Professors

Green Building Consultants

Students

Government Officials

Policy Makers

Practising Architects

Engineers

Developers

Contractors

Corporates

Academia

Scientists



Draft Agenda

- Day 1** Inaugural session along with inaugural of exhibition
Building Energy Efficiency & Climate Change
Renewable Energy Sources & Integration in the Built Environment
Solar Energy Generation & Use in Buildings
Solar Energy Systems in Architecture – Functional & Construction Aspects
- Day 2** Solar Thermal Systems, Technologies & Integration with Buildings
Solar Air conditioning & Its Application in India
Tools to Evaluate Performance of Solar Photovoltaics and Solar Thermal Systems
Innovations, Technologies & R E Products for Integration in Buildings
- Day 3** Wind Energy & its Integration with Buildings, Biogas & its Integration with Buildings
Policies & Regulations for EE & RE Integration in India
Case Studies & Good Integration Examples
- Day 4** Renewable Energy System Installations & Innovative Technologies
Life cycle Cost Analysis for Integration of Renewable Energy in Buildings
Hand Holding Exercise
Case studies of RE Integration in Buildings
Vote of Thanks & Certificate Distribution
- Day 5** Site visits of case studies in Bangalore



R.V. College of Architecture (RVCA)

was established in 1992, as Department of Architecture in R. V. College of Engineering (RVCE), Bengaluru. RVCA is affiliated with Visvesvaraya Technological University (VTU), Belagavi, Karnataka.

With two and half decades of experience in architectural education, R V College of Architecture (RVCA) has earned a distinction of being one of the premier architecture institutes in the country. RVCA is a unique example and a successful model of an architecture institute where architectural pedagogy revolves around academics, research and consultancy.

Endorsing RVCA's approach to architectural education is the RVCA campus, that makes a bold statement in the realm of contemporary institutional architecture, and is also equipped with modern educational aids, studios, lecture halls, laboratories and workshops.

Site CA-1, Banashankari 6th Stage, 4th Block,
Bengaluru, Karnataka 560062.

<http://www.rvca.edu.in/>