ENERGY EFFICIENT DREAM HOME
Project Presentation
FOR ENGINEERING STUDENTS
01ST OCT  HUB LEVEL  22ND OCT  STATE LEVEL
Introduction

Climate Change impacts are here to see. It is no longer a topic to be debated. Studies show that energy production and industry are the main contributors to the global warming that drives climate change. Efforts to limit the global temperature rise to 2°C by 2100 over that existed at the start time of industrialization, can be successful by mainly concentrating on improving energy efficiency in buildings (share 60%), industry (25%) and transportation (15%). Building appears to hold the key. While zero carbon discharge in buildings will take more time to achieve, a very large potential for saving energy in the production of materials of construction, in the construction process and during occupation still exist. Many materials are scarce and therefore getting costlier. New materials, new ways of building structures and increased comfort while occupying them with decreasing amount of energy consumption could be the target for the immediate future. Myriads of opportunities could emerge, if we look for solutions. Green Building is a new concept. Biomimetics (biomimicry) is another. Other keywords are: Multidisciplinary engagements, passive energy, insulation, efficient land use, use of natural wind and sunshine, living comfort, minimizing use of water and energy, building energy management system, safe and effective waste management, green building standards, building envelopes, innovative design and selection of materials, low cost and nature friendly, etc.

Contestants may familiarize themselves with building rules, national policies, laws regarding public safety, stipulations by local governments etc, before taking any of the following four routes, or combinations of them and come out with demonstrable innovations, which are affordable, environment friendly, energy efficient, easily replicable and most of all sustainable:
1. Improved use of terrain, land and construction materials, layout plan, use of local natural materials and water harvesting.
2. Energy and water efficient construction and use of buildings, equipment energy efficiency, Use of renewable forms of energy, and improved waste management.
3. Heat insulation, improved thermal comfort, integrating structural design to use natural elements.
4. Improved appliances, equipment automation, new electrification plans, building energy management, ease of utilizing public transportation.
Prizes
Certificates for Hub Level Competitions
Certificates & Cash Prizes for State Level Competitions

Cash Prizes (State Level)
1st Prize : Rs 25,000/-
2nd Prize : Rs 15,000/-
3rd Prize : Rs 10,000/-

Advisory Committee
Prof. V. K. Damodaran    Er. N. T. Nair
Er. A. G. Hareendralal  Er. K. M. Dhareshan Unnithan
Er. A. Suhair           Prof. Muhammed Kasim S.
Dr. K. Bijuna
Who can Apply?
Team of 3-4 students of any discipline from a college. Any number of teams from a college can apply.
Travel Allowance will be provided * Conditions apply

How to Apply?
No Registration Fee
Participants are required to register at goo.gl/aGh0cD

Last Date to Register?
9th September 2016

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