

09ARC 4.7– CLIMATE RESPONSIVE ARCHITECTURE

Written by Administrator
Saturday, 31 October 2009 16:27 -

CONTACT PERIODS : 4 (STUDIO) PER WEEK

PROGRESSIVE MARKS : 50

Objective:

To apply the principles of Solar Passive Architecture to design of buildings.

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Outline:

Introduction to passive techniques of cooling such as evaporative cooling, earth tubing, wind scoops, roof ponds, shaded courtyards etc.,

Two design exercises (in hot dry and warm humid climate) with an objective to integrate passive cooling systems in the design.

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References:

- 1) 'Housing, Climate and Comfort' by Martin Evans

- 2) 'Climate Responsive Architecture' by Arvind Kishan, Baker and Szokolay.

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