

CONTACT PERIODS: 6 (1 LECTURE + 5 STUDIO) PER WEEK

VIVA MARKS : 100

PROGRESSIVE MARKS : 50

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Objective:

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To study the construction systems of roofing for large span and complex buildings

Outline:

Written by Administrator
Saturday, 31 October 2009 17:40 -

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Construction – Steel trusses for various spans, ridged truss, saw tooth truss with lattice girders, roof lighting, a/c sheet and profiled MS sheet cladding and roof fixing details.

Roofs – Shell roof, folded plate, geodesic domes, space frame, tensile structures, pneumatic structures, pre-engineering metal buildings

Materials – Plastics – types, properties and uses of plastics such as polycarbonates, acrylics, PVC polymer films, fibre reinforced plastic. Rubber and Asbestos cement products. Water Proofing elements, construction chemicals and additives, adhesives, plaster of Paris, gypsum, Polysterenes, sealants.

Note – Minimum one plate on each construction topic. Site visits to be arranged by studio teachers. Study of material applications in the form of portfolio. The entire portfolio on construction and materials shall be presented for viva exam.

References:

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09ARC 6.2 – BUILDING CONSTRUCTION & MATERIALS – VI

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1) “Construction Technology” by Chudley

2) “Construction of Buildings” by Barry