

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

VIVA MARKS : : 100

PROGRESSIVE MARKS : : 50

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Objective:

To study constructional systems and detailing of special doors, windows, structural glazing and cladding

Outline:

Construction – PVC & FRP, frameless glass doors and windows and partitions.
Wooden/Steel/Aluminium sliding and folding doors and partitions. Steel doors for garages and workshops. Collapsible gate and rolling shutters, remote control systems of doors and gates.
Structural glazing, aluminium composite panel cladding.

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Materials – Insulation materials – Thermal and sound insulation materials. Glass – its manufacture in its various types like plate, tinted, decorative, reinforced, laminated glass block, fibre glass, glass murals, partially coloured glass, etching of glass and its applications in building industry for both exteriors and interiors. Glass fabrication techniques, fibre reinforced composite materials and products.

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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1) “Construction Technology” by Chudley

2) “Construction of Buildings” by Barry