

Course 4 – Advance Construction Techniques II

(Practical)

Course Type	Credits	Hours	Assessment	T-P-Pr
Core	2	60	100	0-2

Course Learning Outcomes (CLOs)

CLO 1	Draft the fixing details of the types of hardware used in interior construction.
CLO 2	Draft the constructional details of installing thermal and sound insulation in interior spaces.
CLO 3	Draft constructional details of door and windows made with materials other than wood.

Course Content

Module	Course Content	Hours	CLO	Module Learning Outcome	Assignments
4.1	Hardware and its application Fixing details of different hardware	15	CLO1	1. Draft fixing details of various hardware used in interior construction.	Carry out a case study of various types of hardware available for creating ergonomic workspaces. Design a home-office setup using the various types of hardware available. Draft plan, elevations, section and all fixing details of the office desk.
4.2	Materials and Methods of Building Insulation - Thermal Insulation-application & uses - Sound Insulation-application & uses	15	CLO2	1. Design thermal insulation for a specific area. 2. Design sound insulation for a specific area.	Design a partition for an office space which provides sound and thermal insulation to the space. Draft all working drawings for this partition including details. Write a report on the materials used in the partition and how they will provide insulation to the office space.
4.3	Doors and windows in materials other than wood - Different types of materials used for making doors and windows like: - Aluminium - Plastics - Automation in Doors & Windows.	30	CLO3	1. Identify various materials that can be used for making doors and windows and the pros and cons of each. 2. Explain the mechanics of automation in doors and windows. 3. Draft fixing details of the various materials.	Make a presentation on the various alternate types of materials available for making doors and windows. Draft the constructional details of all the materials researched above. Conduct a market survey and present a report on the various types of automation solutions available for door and windows.