

## Course 3 – Advance Materials II

*(Theory)*

Course Type	Credits	Hours	Assessment	T-P-Pr
Core	2	30	100	2-0

### Course Learning Outcomes (CLOs)

<b>CLO 1</b>	Discuss the various types of hardware used in interior construction.
<b>CLO 2</b>	Discuss the types and uses of soft furnishings in interior design.
<b>CLO 3</b>	Describe the need for insulation in interior spaces and the materials available for this.
<b>CLO 4</b>	Explain the trends and new materials in building construction.

### Course Content

Module	Course Content	Hours	CLO	Module Learning Outcome	Assignments
3.1	<b>Hardware and its application</b> <ul style="list-style-type: none"> <li>• <a href="#"><u>Doors and windows hardware</u></a> <ul style="list-style-type: none"> <li>◦ Nails, screws, pins,</li> <li>◦ Hinges, channels, locks and handles,</li> </ul> </li> <li>• <a href="#"><u>Hardware for cabinets and furniture</u></a></li> </ul>	5	CLO1	<b>1.</b> Identify and use various hardware items.	Presentation on the topic. Market Survey and report on the types of hardware available locally.
3.2	<b>Soft Furnishing for Interior Spaces</b> <ul style="list-style-type: none"> <li>• <a href="#"><u>Natural &amp; manmade fabrics</u></a></li> <li>• <a href="#"><u>Characteristics, advantages &amp; disadvantages and uses.</u></a></li> <li>• <a href="#"><u>Upholstery materials.</u></a></li> <li>• <a href="#"><u>Curtains and Draperies</u></a></li> </ul>	15	CLO2	<b>1.</b> Discuss the types of fabrics used in interior spaces. <b>2.</b> Explain the use of and selection of soft furnishings for various areas.	Presentation on the topic. Market survey and report on the types of interior fabrics available locally. Collect samples wherever possible.
3.3	<b>Materials and Methods of Building Insulation</b> <ul style="list-style-type: none"> <li>• <a href="#"><u>Need and use of insulation in a building</u></a></li> <li>• <a href="#"><u>Types of insulating materials available</u></a></li> </ul>	5	CLO3	<b>1.</b> Discuss the need for insulation in a building to save energy and provide barriers to sound. <b>2.</b> Explain the materials and methods for installing thermal insulation in a building.	Presentation on role and importance of insulation in a building. Market survey on the different types of thermal and acoustical insulating materials available.
3.4	<b>Upcoming trends and new materials in construction</b> <ul style="list-style-type: none"> <li>• Research the latest and upcoming trends and materials which are being used.</li> <li>• Their availability and the technologies required to use these effectively.</li> </ul>	5	CLO4	<b>1.</b> Identify new materials and new trends in building technology.	Market survey and presentation on upcoming trends and new materials in interior construction.