



Wrocław University
of Science and Technology

AMORIM CORK



Learning Module Outline

Short Description	
Description of the module	<p>Aerospace applications of cork, demanded properties from the aerospace sector</p> <p>This module deals with cork composites in aerospace applications and demanded properties from cork by aerospace sector. Current cork technology in aerospace industry is described in this module. Examples from aerospace applications are given by discussing technical benefits of cork composites. The content of this module is given below.</p> <ol style="list-style-type: none"> 1. Introduction 2. Materials properties of cork composites <ol style="list-style-type: none"> 2.1. Mechanical properties 2.2. Thermal properties 3. Material selection for aerospace applications <ol style="list-style-type: none"> 3.1. Ashby's method for materials selection 3.2. Decision making methods 3.3. Knowledge based systems 4. Current cork applications in aerospace structures 5. Potential applications of cork composites in aerospace structures

Target Groups	
Targets	<ul style="list-style-type: none"> • Engineering students (Aerospace, Aeronautical, Materials and Mechanical Engineering) • Engineers, technical staff and leaders in Aerospace and Aeronautical Industries

Learning Objectives	
Learning Objectives for this module	<p>Upon completion of this module, attendants will be able to:</p> <ul style="list-style-type: none"> • Understand the technical properties of cork composites. • Understand the current and prospective application areas of cork composites in aerospace structures. • Understand the advantages of cork composites over the other materials in aerospace applications.



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Learning Resources	
Resources	<ul style="list-style-type: none"> • Scientific articles • Audiovisual materials • Research papers • Books • Thesis • Industrial reports

Self-assessment and Learning Activities	
Self-assessment and Learning Activities to be created	<ul style="list-style-type: none"> • Practice questions • Quiz • Module summary • Video lectures • Book



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