

## LESSON DESCRIPTION

### 1. FENIKA

<b>Found.</b>	Univ. of Thessaly		
<b>FACULTY</b>	TECHNOLOGY		
<b>DEPT.</b>	FORESTRY, WOOD SCIENCE AND DESIGN		
<b>STUDY LEVEL</b>	<i>Undergraduate</i>		
<b>Lesson Code</b>	ΞΞΕ 941	<b>Semester</b>	9th
<b>LESSON TITLE</b>	Wood Coatings		
	<b>ACTIVITIES</b>	<b>WEEKLY HRS</b>	<b>ECTS</b>
	Theoretical	2	
	Laboratory	1	
	<i>Total</i>	<b>3</b>	<b>6</b>
<b>TYPE OF COURSE</b>	Scientific area		
<b>PREREQUISITES:</b>	None		
<b>LANGUAGE TEACHING AND EXAMINATION:</b>	Greek		
<b>THE COURSE IS OFFERED TO ERASMUS STUDENTS</b>	No		
<b>WEBPAGES COURSE (URL)</b>	<a href="https://eclass.uth.gr/main/login_form.php?">https://eclass.uth.gr/main/login_form.php?</a>		

### 2. LEARNING OUTCOMES

<b>Learning Outcomes</b>
<p>Upon successful completion of the course, the student will be able to:</p> <ul style="list-style-type: none"> <li>• To know the properties of wood that affect the success of coating application,</li> <li>• To know the preparation of wood before the application of coatings,</li> <li>• To know all the categories and properties of coatings,</li> <li>• Know application methods, quality control, and worker and user safety issues as well as environmental protection issues related to wood coatings</li> </ul>
<b>General Skills</b>
<ul style="list-style-type: none"> <li>• Search, analysis and synthesis of data and information, also using appropriate technologies in finishing wooden constructions indoor and outdoor</li> <li>• Project planning and management, organize preparative works</li> <li>• Decision making</li> <li>• Autonomous work</li> <li>• Critical perception, flexibility of actions</li> <li>• Protection of health and environment</li> </ul>

### 3. COURSE CONTENT

<p>In <b>theoretical</b> part of the course the student is taught and learns about:</p> <ul style="list-style-type: none"> <li>• properties of wood that affect the success of coating application,</li> <li>• wood preparation before coating application,</li> <li>• coating categories and properties, application methods, quality control, worker and user safety issues, environmental issues and application examples.</li> </ul>
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The **laboratory** part of the course takes place one (1) hour per week. Its attendance by students is mandatory and is considered successful when the student has attended at least 70% of the courses. The content of the laboratory part includes demonstration of equipment and methods described in the theoretical part. The laboratory part includes written exams at the end of the semester and the score obtained is counted together with the score of the theory exam in the final grade of the course.:

#### 4. TEACHING AND LEARNING METHODS-EVALUATION

<b>DELIVERY METHOD</b>	Combined application of educational methods and techniques in classroom face to face	
<b>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</b>	<ul style="list-style-type: none"> <li>Use of a course website on the e-class platform for posting (a) lecture material, (b) notes and internet links, (c) announcements and search tools.</li> </ul>	
<b>MANAGEMENT OF TEACHING</b>	<b>Δραστηριότητα</b>	<b>Φόρτος Εργασίας Εξαμήνου</b>
	Lectures	20
	Questions/answers	4
	Laboratory exercise	13
	Individual and work study	111
	<b>Course Total</b>	<b>125</b>
<b>STUDENT EVALUATION</b>	<p>Evaluation of the theoretical part of the course takes place at the end of the semester with written exams. The final exam procedure is the standard one followed in all the Department's courses.</p> <p>In consultation with the students who wish, the evaluation of the theoretical course can also be done with progress exams that will be held on an agreed date during the semester, according to the Department's program. The final exam includes questions from all the material in the book and the result of the evaluation participates in 70% of the final grade.</p> <p>The evaluation of the laboratory part of the course is done with a written final exam that includes questions from the laboratory courses and the result of the evaluation participates in 30% of the final grade.</p>	

#### 5. RECOMMENDED BIBLIOGRAPHY

- Καραγιαννίδης Γ., Σιδερίδου Ε., Αχιλιάς Δ, Μπικιάρης Δ. Τεχνολογία πολυμερών. Εκδόσεις Ζήτη 2009.
- Καραγιαννίδης Γ., Σιδερίδου Ε. Χημεία πολυμερών. Εκδόσεις Ζήτη 2006.
- Franco Bulian and Jon A. Graystone (2009). Wood Coatings. Elsevier. <https://doi.org/10.1016/b978-0-444-52840-7.x0001-x>

- Forest Products Laboratory. 2010. Wood handbook—Wood as an engineering material. General Technical Report FPL-GTR-190. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory.