Basic data of the subject			
Academic Unit:	Faculty of Architecture, Design and Wood		
Academic Ont.	Technology		
Program:	Design and Construction of Wooden Products		
Subject title:	Drying and Protection of Wood		
Study level:	Bachelor		
Subject status:	Mandatory		
Years of study:	II		
Number of hours per week:	3		
Value of credits – ECTS:	5		
Lecturer of the subject:	Ligj. MSc. Bujar Jashari		
Contact details:	bujar.jashari@ushaf.net		
Subject description:	While pursuing this course, students will be able to analyze and understand ways of hydrothermal processing and wood protection through the application of various natural and artificial ways. During the follow-up of this material, the anatomy of the wood and its importance for achieving a good drying of the wood will be elaborated. The material clarifies the importance of drying wood and adjusting the equilibrium humidity (EMC), shows the types of water found in the wood, the possible aggregate condition, the transfer of water through the wood, etc. In the wood protection module students will learn about the main pests of wood, the types of antiseptics, the methods of their application and the techniques of introducing the chemical into the wood.		
Purpose of subject:	The purpose of this subject is for the student to gain general knowledge in the preservation of wood, as well as the use of chemical antiseptics for protection. After completion of this module, students will be able to:		
Expected learning outcomes:	 Dry it in equilibrium moisture conditions; Lead the application of work from the starting point to the end of drying; Know about insecticide, fungicide and ignifug antiseptic types. 		

Contribution to student workload (which should correspond to the students learning outcomes)				
Activity	Hours	Days/week	Total	
Lectures	2	15	30	
Theoretical / laboratory	1	15	15	
exercises	1	13	13	
Practical work				
Contacts to the Lecturer /	1	15	15	
Consultations	1	13	13	
Field exercises	2	4	8	
Tests, student seminars	2	1	2	
Home work				
Time of self-study (in the	3	5	15	
library or home)	3	5	13	
Final preparation for the exam	2	15	30	
Time spent in assessment (tests,	3	3	9	
quiz, final exam)	3	3	9	
Projects, presentations, etc.	2	1	2	
Total			126	
Teaching methodology:	Lectures, tea	m work. lab wor	k, practical visit	
Teaching methodology: Lectures, team work, lab work, practical visit				
	Final Exam 90%			
Assessment methods:	Attendance 10%			
Literature				
Basic literature:	1. KTH	V. Imprenjimi i d	lrurit	
		a e drurit, Tiranë		
	3. Chem	ical Impregnati	on of Trees and	
	Poles for Wood Preservation Hardcover			
	- Oc	etober 6, 2018	by Bill Howard	
	Wilfo	rd (Author)		

Designed plan of teaching:		
Weeks	Lecture to be held	
Week 1:	Introduction	
Week 2:	Heat carriers	
Week 3:	Influence of physico-mechanical properties of wood during drying	
Week 4:	Wood evaporation	
Week 5:	Timber boiling	

Week 6:	Softening wood for bending
Week 7:	Primar wood evaporation
Week 8:	Wood drying
Week 9:	Theory of wood drying
Week 10:	Drying speed and duration
Week 11:	Natural wood drying
Week 12:	Artificial drying of wood
Week 13:	Preservation of wood material
Week 14:	Cure wood treatment
Week 15:	Wood antiseptics

Academic Policies and Rules of Conduct:

Regular attendance, keeping calm and active engagement in dialogue during lectures and exercises is mandatory.