

GAZİ UNIVERSITY GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCE ECTS FORM								
Course Code and Title	ILT 546 TEST TECHNIQUES IN WOOD TECHNOLOGY							
Credits	3							
ECTS	7,5							
Name of Lecturer And e-mail address	Prof. Dr .Hakan KESKİN khakan@gazi.edu.tr							
Department/Program	Advanced Technologies							
Course Type	Elective							
Course Language	Turkish							
Course Semester	Fall / Spring							
Prerequisites	None							
Course Objectives	The structure of wood and wood-based wood materials, technological properties, detailed information and techniques will be explained in determining the use of facilities and performance characteristics.							
Course Contents	The Formation and Structure of Wood, Micro Structure of Wood, Macro Structure of Wood, Chemical Structure of Wood, Physical Properties of Wood Material, Mechanical Properties of Wood Materials, Drying of Wood Materials, Conservation Wood Materials (Impregnation), Theory of Adhesion and Adhesives Types, Wood Material Modification, Laminated Wood Materials (MDF / HDF, OSB, PSL, LSL, OSL and LVL), Opportunities of Use Some Wood Species, Determination of Wood Performance, Wood Material Testing Techniques – 1, Wood Material Testing Techniques – 2.							
Course Learning Outcomes	Ability to recognize the technological properties of the materials obtained made of wood, ability to get the basic information required for the rational use of wood and wood-based materials to determine the performance characteristics of their work verbally, ability to gain the ability to analyze the test results, ability to work interdisciplinary studies, ability to present oral and written forms in her/his field.							
References (References must be up to date)	Books	1)ORS Y., KESKIN H. 2008, "Wood Technology", Textbooks, Gazi University Publication No: 2000/352, Gazi Publications, Ankara 2)KOLLMAN F., 1975, "Principle of Wood Science and Technology", Springer-Verlag, Heidelberg, New York, USA.						
	Journals, Articles, Papers, Symposiums	1) ORS Y., KESKIN H., "Technological Properties of Laminated Black Pine (<i>Pinus nigra</i> var. <i>Pallasiana</i>) Wood Materials And Possibilities of Using Them", <i>Gazi University Journal of Science</i> , 15/3; 699 - 707, 2002. 3) KESKIN H., "Technological Properties of Laminated Wood Materials Made Up With the Combination of Oak (<i>Quercus Petraea</i> Liebl.) Wood and Scots Pine (<i>Pinus Sylvestris</i> Lipsky) Wood And Possibilities of Using Them", <i>Gazi University Journal of Science (GUJSCI)</i> , 17/ 4; 121-131, 2004. 4) KESKIN H., ATAR, M., "Impacts of Impregnation with Imersol-Aqua to Red Colour Tone of Some Softwoods and Varnishes", <i>Pigment & Resin Technology (PRT)</i> , 40/5; 228-304, 2011. 5) KESKIN H., SUZER E., "Mechanical Properties of Rowan Wood (<i>Sorbus Aucuparia</i> Lipsky) Impregnated with Various Chemical Materials", <i>International Journal of Physical Sciences (IJPS)</i> , 8/2, 73-82, 2013.						
Planned learning activities and teaching methods	Theoric	Practice	Lab.	Projects	Assign.	Other	Total	ECTS
	42		76		30		188	7,5
Assessment Methods and Criteria		Quantity (mark with "X")				Percentage (%)		

Midterm Exam	X	30
Quiz		
Assignment	X	10
Projects		
Laboratory	X	20
Practice		
Other		
Final Exam	X	40

WEEKLY COURSE PLAN

Week	Contents and topics
1. Week	The Formation and Structure of Wood
2. Week	Micro Structure of Wood
3. Week	Macro Structure of Wood
4. Week	Chemical Structure of Wood
5. Week	Physical Properties of Wood Material
6. Week	Mechanical Properties of Wood Materials
7. Week	Midterm Exam
8. Week	Drying of Wood Materials
9. Week	Conservation Wood Materials (Impregnation)
10. Week	Theory of Adhesion and Adhesives Types
11. Week	Wood Material Modification
12. Week	Laminated Wood Materials (MDF / HDF, OSB, PSL, LSL, OSL and LVL)
13. Week	Opportunities of Use Some Wood Species
14. Week	Determination of Wood Performance
15. Week	Wood Material Testing Techniques - 1
16. Week	Wood Material Testing Techniques - 2