School of Fine Arts Design and Architecture / Interior Architecture and Environmental Design

2023 - 2024 Academic Year

TIMBER STRUCTURE APPLICATIONS I

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
TIMBER STRUCTURE APPLICATIONS I	ICT2115136	Fall Semester	1+2	2	4

Prerequisites Courses	
Recommended Elective Courses	
Language of Instruction	Turkish
Course Level	First Cycle (Bachelor's Degree)
Course Type	Elective
Course Coordinator	Assist.Prof. Mustafa ERDEM
Name of Lecturer(s)	
Assistant(s)	
Aim	The main aim of the course is to educate the students about the knowledge of traditional wood building application techniques and to be aware of the restoration of existing structures in this kind.
Course Content	This course contains; Introduction of Wooden Materials. What is Wood as a building material? Why Wood?,Wood - Water relationship, Drying and Protection Methods, water resistance techniques,Introduction of tree types (needle and broad leaves). Places of use and features,Wooden Building Elements in Traditional Architecture. Definitions and uses,Structural system elements, wooden frame systems. Lecture about Wood Construction Techniques,Ceilings and Floors. Lecture about Wood Construction Techniques,Walls (interior and exterior walls, connections). Learning about the wall,1st Midterm Exam (There will be a theoretical exam covering what has been explained since the beginning of the semester),ROOFS. Roof Elements; Explanation of their names, sizes, features and functions,WOODEN DOORS. Door details,WOODEN WINDOWS. Window details,Types and purposes of use of fasteners in wooden doors and windows,WOODEN STAIRS. Things to pay attention,Wooden Joints.

Course Learning Outcomes	Teaching Methods	Assessment Methods
	10, 9	A, E

Teaching Methods	10: Discussion Method, 9: Lecture Method
Assessment Methods	A: Traditional Written Exam, E: Homework

Lecture Schedule

Sequence	Topics	Preliminary Preparation
1	Introduction of Wooden Materials. What is Wood as a building material? Why Wood?	
2	Wood - Water relationship, Drying and Protection Methods, water resistance techniques	
3	Introduction of tree types (needle and broad leaves). Places of use and features	
4	Wooden Building Elements in Traditional Architecture. Definitions and uses	
5	Structural system elements, wooden frame systems. Lecture about Wood Construction Techniques	
6	Ceilings and Floors. Lecture about Wood Construction Techniques	
7	Walls (interior and exterior walls, connections). Learning about the wall	
8	1st Midterm Exam (There will be a theoretical exam covering what has been explained since the beginning of the semester)	
9	ROOFS. Roof Elements; Explanation of their names, sizes, features and functions	
10	WOODEN DOORS. Door details	
11	WOODEN WINDOWS. Window details	
12	Types and purposes of use of fasteners in wooden doors and windows	
13	WOODEN STAIRS. Things to pay attention	
14	Wooden Joints	

Evaluation Methods	Weight(%)
Midterm Exam	50
General Exam	50

Resources

To be provided by the lecturer.PENCERE 1-2, Prof. Utarit İZGİ.
Ahşap Pencereler - Prof. Muhittin BİNAN
Ahşap Kapılar - Prof. Muhittin BİNAN
Ahşap Çatılar - Prof. Muhittin BİNAN
MERDİVENLER - Prof. Abdullah SARI
Ahşap Yapılar - Reha GÜNAY
Ahşap İnşaatta Örneklerle Statik - İnş. Müh. İ. Kani SÜBAŞI
İnşaata Başlarken - Y. Müh. Mim. A. Turhan UYAROĞLU
YAPI - Sedad Hakkı ELDE.
Mimarlıkta Teknik Resim - Orhan ŞAHİNLER & Fehmi KIZIL
YAPIM İLKELER - Malzemeler - Yöntemler - Çözümler - Prof. Dr. H. Çetin TÜRKÇÜ
Mimarlık Sözlüğü - Doğan HASOL
Çizimlerle Bina Yapım Rehberi - CHING & ADAMS
Kudeb Yayınları - Genel Yayınlar
Şantiye notlarım, örnek projeler, uygulama detaylarım
Architectural Graphic Standards 1 . ve 2. cilt. (Amerikan Standartları)
DETAILS Dergisinin sayıları