

School of Fine Arts Design and Architecture / Architecture
2023 - 2024 Academic Year
DESIGN and IMPLEMENTATION with STEEL in ARCHITECTURE
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
DESIGN and IMPLEMENTATION with STEEL in ARCHITECTURE	MIM4115189	Fall Semester	2+1	2,5	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)	Prof.Dr. Ayşe Bilge IŞIK				
Assistant(s)					
Aim	Consideration of design and implementation of building in detail with building systems, the principles and methods in design and implementation				
Course Content	This course contains; Definition of steel building in structure, examples, architects,Healthy living in steel building-- Design issues (fire, corrosion, acoustic, vibration),Steel Manufacturing and construction issues ,Opportunities for architectural expression in steel,Definition of steel building in detail, principles,,stair coverings, plinths, examples Visiting the Manufacturer,Steel windows, Doors, types, examples,Midterm,Steel project design (50m2)- bearing system decision,Steel project design (50m2)-stairs, doors, windows ,Steel project design (50m2)- Wall coverings Ceiling coverings, types Suspended ceiling, examples,Steel project design (50m2)- Wall coverings Ceiling coverings, types Suspended ceiling, examples,Steel project design (50m2)-healthy living detail ,Steel project design (50m2)- poster presentation.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Development of design and implementation knowledge and skills by considering design of building in detail (windows, doors, floor, wall and ceiling coverings etc.) with building systems (mechanical, electrical, plumbing, special systems), readability of implementation drawings			16, 9	A, E	
Teaching Methods	16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Definition of steel building in structure, examples, architects				
2	Healthy living in steel building-- Design issues (fire, corrosion, acoustic, vibration)				
3	Steel Manufacturing and construction issues				
4	Opportunities for architectural expression in steel				
5	Definition of steel building in detail, principles,				
6	stair coverings, plinths, examples Visiting the Manufacturer				
7	Steel windows, Doors, types, examples				
8	Midterm				
9	Steel project design (50m2)- bearing system decision				
10	Steel project design (50m2)-stairs, doors, windows				
11	Steel project design (50m2)- Wall coverings Ceiling coverings, types Suspended ceiling, examples				
12	Steel project design (50m2)- Wall coverings Ceiling coverings, types Suspended ceiling, examples				
13	Steel project design (50m2)-healthy living detail				
14	Steel project design (50m2)- poster presentation				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources
Will be shared in class