

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
INTEGRATED SYSTEM DESIGN STUDIO	KTP4215861	Spring Semester	2+3	3,5	10
Prerequisites Courses	DİSİPLİNLERARASI STÜDYO II; PEYZAJ YAPI TEKNİKLERİ VE MALZEME BİLGİSİ II				
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Lect. Zeynep YAZICIOĞLU				
Name of Lecturer(s)	Assoc.Prof. Bahar BAŞER KALYONCUOĞLU, Lect. Hasan Emrah ÖZARSLAN				
Assistant(s)					
Aim	Experiencing the entire project process from the design phase to the submission of the tender file is the main target of the course. Preparing sustainable and energy efficient construction project that is sensitive to nature and the environment is expected while drawing the Project in detail. The course covers the preparation of the construction project and tender file of the project developed within the scope of the Interdisciplinary Studio II (DASII) course. The design project and project management stages are developed in the Building Information Modeling (BIM) environment. Detailing the project in the BIM environment, structural system dimensioning (structure), detailing the shell design, making decisions on sub-layers and materials, installation solution, 1/20 system section outputs constitute the first part of the program. In addition, it includes the work of writing the original technical specifications of the applications, determining the quantity survey and approximate cost, preparing the feasibility and work schedule, determining the business model and creating the content of the Tender File as a result of the preparation of the contract.				
Course Content	This course contains; Introduction Course,Introducing Interdisciplinary Studio 2 projects to the group coordinators,Interpretation of the projects for the implementation project by the group coordinators ,Interpretation of the projects for the implementation project by the group coordinators ,Interpretation of structural system and material choices by the group coordinators,Discussion of the materials proposed in the projects and presenting on the drawings, system section and details,Discussion of the materials proposed in the projects and presenting on the drawings, system section and details,Discussion of the materials proposed in the projects and presenting on the drawings, system section and details,Mid year jury,Revising the projects according to the jury comments and presenting to the group coordinators,Price research of materials, determination of material quantity and cost,Company research for materials, presenting technical specifications,Discussion of the project and tender file for the final submission,Discussion of the project and tender file for the final submission.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Develops the details of the project for construction.			10, 14, 18, 2, 5	F	
Coordinates building sub-systems with design.			10, 14, 18, 2, 5	F	
Prepares the Tender File which consists of Quantity Take-off, Bill of Quantity, specifications, time schedule of project, draft contract and method of statement.			10, 14, 18, 2, 5	F	
Understands the design processes of complex integrated systems.			10, 14, 18, 2, 5	F	
It provides knowledge and experience in optimizing design decisions and ensuring the desired performance levels of systems.			10, 14, 18, 2, 5	F	
Teaching Methods	10: Discussion Method, 14: Self Study Method, 18: Micro Teaching Technique, 2: Project Based Learning Model, 5: Cooperative Learning				
Assessment Methods	F: Project Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction Course				
2	Introducing Interdisciplinary Studio 2 projects to the group coordinators				
3	Interpretation of the projects for the implementation project by the group coordinators				
4	Interpretation of the projects for the implementation project by the group coordinators				
5	Interpretation of structural system and material choices by the group coordinators				
6	Discussion of the materials proposed in the projects and presenting on the drawings, system section and details				
7	Discussion of the materials proposed in the projects and presenting on the drawings, system section and details				
8	Discussion of the materials proposed in the projects and presenting on the drawings, system section and details				
9	Mid year jury				
10	Revising the projects according to the jury comments and presenting to the group coordinators				
11	Price research of materials, determination of material quantity and cost				
12	Company research for materials, presenting technical specifications				
13	Discussion of the project and tender file for the final submission				
14	Discussion of the project and tender file for the final submission				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources
To be distributed by the lecturer