

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
INTRODUCTION to ENVIRONMENT and SUSTAINABILITY	ICT2115139	Fall Semester	2+0	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)	Prof.Dr. Ayşin SEV				
Assistant(s)					
Aim					
Course Content	This course contains; Introduction, aims, scope and method of the lecture, Definition of the concept of environment, environmental problems, Definition of Sustainable Development (SD) and role of construction sector in SD,The historical development of SDThe development of human settlements and civilization before and after the Industrial Revolution,Sustainable architecture principles, strategies and methodsI – Efficient use of resources (energy, water, material and land),Sustainable architecture principles, strategies and methodsII – Life-cycle design,Sustainable architecture principles, strategies and methodsIII – Design for human,Sustainable construction materials and selection criteriaEco-labels,Passive solar design nad building examples,Utilization of renewable energy sources in architecture,The movie: California Science Museum (Renzo Piano),Sustianable Building Assessment Tools and Methods, (LEED, BREEAM, CASBEE; GSBCS...),Midterm exam,Laws and regulations about the topic,Sustainable building examples from the world,Sustainable building examples from the world.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
			10, 14, 9	A, E	
Teaching Methods	10: Discussion Method, 14: Self Study Method, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction, aims, scope and method of the lecture, Definition of the concept of environment, environmental problems, Definition of Sustainable Development (SD) and role of construction sector in SD				
2	The historical development of SDThe development of human settlements and civilization before and after the Industrial Revolution				
3	Sustainable architecture principles, strategies and methodsI – Efficient use of resources (energy, water, material and land)				
4	Sustainable architecture principles, strategies and methodsII – Life-cycle design				
5	Sustainable architecture principles, strategies and methodsIII – Design for human				
6	Sustainable construction materials and selection criteriaEco-labels				
7	Passive solar design nad building examples				
8	Utilization of renewable energy sources in architecture				
9	The movie: California Science Museum (Renzo Piano)				
10	Sustianable Building Assessment Tools and Methods, (LEED, BREEAM, CASBEE; GSBCS...)				
11	Midterm exam				
12	Laws and regulations about the topic				
13	Sustainable building examples from the world				
14	Sustainable building examples from the world				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources