

## UNDERGRADUATE AND GRADUATE COURSES OFFERED AT TOGU ON SUSTAINABILITY GOALS

There are many courses offered at our university at undergraduate and graduate levels, based on the United Nations Sustainable Development Goals. Our courses in each faculty and department provide training on approaches that include ensuring social, economic and ecological sustainability. Our institution attaches particular importance to education programs on ecological sustainability. Approximately 580 of the courses taught in our school are about environment. The table below contains some examples of lessons taught on sustainability. The following tables show the sustainability-related courses offered by faculties and graduate schools. Table 1 provides descriptions of the courses selected as examples and their content and Table 2 presents the list of sustainability-related courses.

Table 1. Selected courses and course contents related to sustainability

Course Title	Content
<b>Ecology</b>	To explain the basic concepts of ecology. Students live and the environment ecology by illustrating their relationships and the changes that occur in those relationships. to teach science.
<b>Wildlife Ecology</b>	To know, love, protect and understand the importance of wildlife and nature, To follow and watch the wildlife, to know the characteristics of the habitats. To comprehend ecological balance and the importance of food chain and to improve living biodiversity. To ensure the continuation and transfer to future generations .
<b>Wild Animals Information</b>	Wild Animals' names, types, biology (location, To recognize their nutrition, reproduction etc.)
<b>Wetlands</b>	The aim of this course is to provide students with surface and groundwater in areas affected by some activities information on the status, problems, protection and management of resources; and to gain skills.
<b>Nature and Hunting Tourism</b>	The aim of this course is to teach students basic concepts and approaches about tourism, nature. To provide information about the principles of tourism and the subject

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<b>Environmental Protection</b>	The aim of this course is to learn the effect of the environment on health, population growth and Understanding the environmental problems brought about by development and employee health learning to evaluate with an approach.
<b>Edible Plants</b>	The systematic, used part and the systematic of edible plants that grow naturally in our country teach features
<b>Biological Museum Management</b>	To work on a biological museum. Animals, especially vertebrates Making preparations.
<b>Fire Ecology</b>	The effect of fire as an ecological factor in forest ecosystems and to understand the interaction
<b>National Parks and Protected Areas</b>	To learn the purpose of nature conservation. Sustainable nature and conservation activities learn
<b>General Botany</b>	To give the basic concepts of plant biology and to explain these concepts and subjects. To be able to understand. Cell, tissue, organ structure, systematics of plants, To give basic information about physiology, genetics and ecology.
<b>Earth Scientist</b>	It is the detailed teaching of soil knowledge and the elements that make up the soil to students.
<b>Wildlife in Forestry</b>	The aim of this course is to provide students with an overview of wildlife and forestry relations. To develop, to teach the principles of forest management according to wildlife, wild animals damage based on silvicultural interventions and protection measures from these and improving wildlife to teach silvicultural measures that can be taken.
<b>Afforestation</b>	Planning and implementation techniques of afforestation activities, nursery and information on the breeding, breeding and maintenance of various species in greenhouses and give practice
<b>Forest Protection</b>	Fight with protective and preventive measures that can be taken to protect forest resources To teach what methods will be and how they should be used.

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<b>Renewable energy sources</b>	Learning the renewed energy sources and usage possibilities.
<b>Rural Development</b>	To know the concept of rural area, rural life and culture, contributing to the solution of the  problems of the inhabitants, the country's economy and life To produce policies and projects that will contribute to quality.
<b>Exotic Trees</b>	It is aimed to learn exotic trees and their usage areas.
<b>Coastal Ecosystem</b>	The aim of this course is to help the student to organize natural resources from the sea. and to understand the management of the marine environment within the scope of itplanning.
<b>Wood Material Technology</b>	Basic properties of wood material and factors affecting these properties learn. What they will encounter in application areas related to wood material analyzing the cause-effect relationship in problems and generating solutions. win
<b>Forest Care</b>	Measures that can be taken to protect forest resources and protection measures learn.
<b>Nature Tourism</b>	The aim of this course is to give students the theoretical framework of nature tourism and recreation, To teach the principles and applications.
<b>Nature Tourism</b>	The aim of this course is to give students the theoretical framework of nature tourism and recreation, To teach the principles and applications.
<b>Sustainable Soil Productivity</b>	With physical, chemical and biological factors affecting the soil and productivity examine their relationships

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<b>Wood Material Technology</b>	Basic properties of wood material and factors affecting these properties learn. Encounters related to wood material in application areas the ability to analyze cause-effect relationships in problems and to produce solutions.
<b>Afforestation and Nursery Technique</b>	Afforestation by sowing or planting method
<b>Benefiting from Forest Products</b>	To learn the properties of forest products, engineering wood materials (chipboard, fiberboard, veneer, OSB, LVL, GLULAM etc.) production techniques, classification, sales procedures, standards and places of use learn
<b>Wild life</b>	With this course, students will learn about wild animals (especially mammals and birds) and their In addition to obtaining general information about wildlife management plans, Information on ensuring the continuity of wildlife ecosystems and populations It is aimed to teach techniques and applications in these subjects.
<b>Basic Information Technology Usage</b>	The aim of this course is to enable the use of basic information technologies and computers, teaching office programs and using web technologies, information in forestry and teaching and applying technology
<b>Forest Care</b>	Measures that can be taken to protect forest resources and protection measures learn.



Table 2. The list of courses related to sustainability

Course Code	Course Name	Local Credit	ECTS	Level	Program_57	Lecturer
BAH-5086	Sustainable Agriculture in Horticulture	3	7,50	1	Horticulture (MA) (with thesis)	Dr. Öğr. Üyesi HAKAN KARADAĞ
BAH-6016	Organic and Sustainable Viticulture	3	7,50	1	Horticulture (DR)	Prof. Dr. RÜSTEM CANGI
BES311	SUSTAINABLE NUTRITION	2	3	3	Nutrition and Dietetics	
BIS-6015	Tillage for Sustainable Production	3	7,50	1	Biosystems Engineering (DR)	Prof. Dr. ENGİN ÖZGÖZ
D1300166	SUSTAINABLE AGRICULTURE	2	3	2	Agricultural Economics	Öğr. Üye SEDA BİCE
D1300166	SUSTAINABLE AGRICULTURE	2	3	2	Plant Protection	Prof. Dr. İRFAN OĞUZ
D1301106	SUSTAINABLE AGRICULTURE IN HORTICULTURE	2	3	2	Horticulture	Dr. Öğr. Üyesi HAKAN KARADAĞ
İNŞ-5018	Sustainable Architecture and City	3	7,50	1	Civil Engineering (MSc) (with thesis)	Doç. Dr. AYGÜN KALINBAYRAK ERCAN
SMB921	SUSTAINABLE DEVELOPMENT AND EDUCATION	2	4	2	Faculty Elective Courses	Öğr. Gör. Dr. ANIL MÜTEVELLİOĞLU
BAH-5086	Sustainable Agriculture in Horticulture	3	7,50	1	Horticulture (MA) (with thesis)	Dr. Öğr. Üyesi HAKAN KARADAĞ
BAH-6016	Organic and Sustainable Viticulture	3	7,50	1	Horticulture (DR)	Prof. Dr. RÜSTEM CANGI
BES311	SUSTAINABLE NUTRITION	2	3	3	Nutrition and Dietetics	
BIS-6015	Tillage for Sustainable Production	3	7,50	1	Biosystems Engineering (DR)	Prof. Dr. ENGİN ÖZGÖZ
D1300166	SUSTAINABLE AGRICULTURE	2	3	2	Plant Protection	Prof. Dr. İRFAN OĞUZ
D1300166	SUSTAINABLE AGRICULTURE	2	3	2	Agricultural Economics	Öğr. Üye SEDA BİCE
D1301106	SUSTAINABLE AGRICULTURE IN HORTICULTURE	2	3	2	Horticulture	Dr. Öğr. Üyesi HAKAN KARADAĞ
İNŞ-5018	Sustainable Architecture and City	3	7,50	1	Civil Engineering (MSc) (with thesis)	Doç. Dr. AYGÜN KALINBAYRAK ERCAN
MİM465	SUSTAINABLE DEVELOPMENT OBJECTIVES IN THE BUILT ENVIRONMENT	2	4	4	Architecture	
SMB921	SUSTAINABLE DEVELOPMENT AND EDUCATION	2	4	2	Faculty Elective Courses	Öğr. Gör. Dr. ANIL MÜTEVELLİOĞLU
SUR-5009	Sustainable Fisheries and Aquaculture	3	7,50	1	Fisheries Engineering (MSc) (with thesis)	Prof. Dr. NİHAT YEŞİLAYER
TEK-6014	Sustainable Rural Development	3	7,50	1	Agricultural Economics (DR)	Doç. Dr. HAYRİYE SİBEL GÜLSE BAL
BAH-5086	Sustainable Agriculture in Horticulture	3	7,50	1	Horticulture (MA) (with thesis)	Dr. Öğr. Üyesi HAKAN KARADAĞ
BIS-6015	Tillage for Sustainable Production	3	7,50	1	Biosystems Engineering (DR)	Prof. Dr. ENGİN ÖZGÖZ
BVS5014	SUSTAINABLE DEVELOPMENT AND INSURANCE	3	7,50	1	Banking and Insurance (MA) (with thesis)	Doç. Dr. VEYSEL YILMAZ
İNŞ-5018	Sustainable Architecture and City	3	7,50	1	Civil Engineering (MSc) (with thesis)	Doç. Dr. AYGÜN KALINBAYRAK ERCAN
OÖE-5010	Environmental Education and Sustainability in Early Childhood	3	7,50	1	Preschool Education (MA) (with thesis)	Dr. Öğr. Üyesi CEMİLE BURCU DURMUŞ
OR2040	SUSTAINABLE SOIL FERTILITY	3	4	2	Forestry and Forest Products	Dr. Öğr. Üyesi ERSİN DURSUN
REK272	SUSTAINABLE TOURISM	2	3	2	Recreation Management	
SMB921	SUSTAINABLE DEVELOPMENT AND EDUCATION	2	4	2	Faculty Elective Courses	Prof. Dr. GÜLAY ASLAN
TEK-6014	Sustainable Rural Development	3	7,50	1	Agricultural Economics (DR)	Doç. Dr. HAYRİYE SİBEL GÜLSE BAL
TOP-5041	SOIL QUALITY AND SUSTAINABILITY	3	7,50	1	Soil Science and Plant Nutrition (MA) (Dissertation)	Dr. Öğr. Üyesi SANİYE DEMİR

Table 2. The list of courses related to sustainability

Course Code	Course Name	Local	ECTS	Program	Lecturer
BAH-5086	Sustainable Agriculture in Horticultural Plants	3	7,50	Horticultural Plants (MSc) (Thesis)	Dr. Öğr. Uyesi HAKAN KARADAG
BAH-6016	Organic and Sustainable Viticulture	3	7,50	Horticultural Plants (PhD)	Prof. Dr. RUSTEM CANGI
BIS-6015	Soil Tillage for Sustainable Production	3	7,50	Biosystems Engineering (PhD)	Prof. Dr. ENGIN OZGOZ
İNŞ-5018	Sustainable Architecture and Urbanism	3	7,50	Civil Engineering (MSc) (Thesis)	Doç. Dr. AYGUN KALINBAYRAK ERCAN
SUR-5009	Sustainable Fisheries and Aquaculture	3	7,50	Fisheries Engineering (MSc) (Thesis)	Prof. Dr. NIHAT YEŞİLAYER
TEK-6014	Sustainable Rural Development	3	7,50	Agricultural Economics (PhD)	Doç. Dr. HAYRIYE SIBEL GULSE BAL
BAH-5086	Sustainable Agriculture in Horticultural Plants	3	7,50	Horticultural Plants (MSc) (Thesis)	Dr. Öğr. Uyesi HAKAN KARADAG
BIS-6015	Soil Tillage for Sustainable Production	3	7,50	Biosystems Engineering (PhD)	Prof. Dr. ENGIN ÖZGÖZ
BVS5014	Sustainable Development and Insurance	3	7,50	Banking and Insurance (MSc) (Thesis)	Doç. Dr. VEYSEL YILMAZ
İNŞ-5018	Sustainable Architecture and Urbanism	3	7,50	Civil Engineering (MSc) (Thesis)	Doç. Dr. AYGUN KALINBAYRAK ERCAN
OOE-5010	Environmental Education and Sustainability in Early Childhood	3	7,50	Early Childhood Education (MSc) (Thesis)	Dr. Öğr. Uyesi CEMILE BURCU DURMUŞ
TEK-6014	Sustainable Rural Development	3	7,50	Agricultural Economics (PhD)	Doç. Dr. HAYRIYE SIBEL GULSE BAL
TOP-5041	Soil Quality and Sustainability	3	7,50	Soil Science and Plant Nutrition (MSc) (Thesis)	Dr. Öğr. Uyesi SANIYE DEMİR
BAH-5086	Sustainable Agriculture in Horticultural Plants	3	7,50	Horticultural Plants (MSc) (Thesis)	Dr. Öğr. Uyesi HAKAN KARADAG
BAH-6016	Organic and Sustainable Viticulture	3	7,50	Horticultural Plants (PhD)	Prof. Dr. RUSTEM CANGI
BIS-6015	Soil Tillage for Sustainable Production	3	7,50	Biosystems Engineering (PhD)	Prof. Dr. ENGIN OZGOZ
İNŞ-5018	Sustainable Architecture and Urbanism	3	7,50	Civil Engineering (MSc) (Thesis)	Doç. Dr. AYGUN KALINBAYRAK ERCAN
BAH-5086	Sustainable Agriculture in Horticultural Plants	3	7,50	Horticultural Plants (MSc) (Thesis)	Dr. Öğr. Uyesi HAKAN KARADAG
BAH-5093	Urban Environment and Sustainability	3	7,50	Horticultural Plants (MSc) (Thesis)	Arş. Gör.Dr. VENHAR MELDA HASSAMANCIOGLU
BIS-6015	Soil Tillage for Sustainable Production	3	7,50	Biosystems Engineering (PhD)	Prof. Dr. ENGIN OZGOZ
BVS5014	Sustainable Development and Insurance	3	7,50	Banking and Insurance (MSc) (Thesis)	Doç. Dr. VEYSEL YILMAZ
HRT-5022	Sustainable Architecture and Urbanism	3	7,50	Geomatics Engineering (MSc) (Thesis)	Doç. Dr. AYGUN KALINBAYRAK ERCAN
SUR-5009	Sustainable Fisheries and Aquaculture	3	7,50	Fisheries Engineering (MSc) (Thesis)	Prof. Dr. NIHAT YEŞİLAYER
TAB-6013	Sustainable Agriculture	3	7,50	Field Crops (PhD)	Doç. Dr. AHMET KINAY
TEK-6014	Sustainable Rural Development	3	7,50	Agricultural Economics (PhD)	Doç. Dr. HAYRIYE SIBEL GULSE BAL
BAH-5086	Sustainable Agriculture in Horticultural Plants	3	7,50	Horticultural Plants (MSc) (Thesis)	Dr. Öğr. Uyesi HAKAN KARADAG
BIS-6015	Soil Tillage for Sustainable Production	3	7,50	Biosystems Engineering (PhD)	Prof. Dr. ENGIN OZGOZ
HRT-5022	Sustainable Architecture and Urbanism	3	7,50	Geomatics Engineering (MSc) (Thesis)	Doç. Dr. AYGUN KALINBAYRAK ERCAN
TEK-6014	Sustainable Rural Development	3	7,50	Agricultural Economics (PhD)	Doç. Dr. HAYRIYE SIBEL GULSE BAL
BAH-5086	Sustainable Agriculture in Horticultural Plants	3	7,50	Horticultural Plants (MSc) (Thesis)	Dr. Öğr. Uyesi HAKAN KARADAG
BAH-6029	Sustainable Vegetable Production	3	7,50	Horticultural Plants (PhD)	Prof. Dr. NECDETTİN SAGLAM
BIS-6015	Soil Tillage for Sustainable Production	3	7,50	Biosystems Engineering (PhD)	Prof. Dr. ENGIN OZGOZ
HRT-5022	Sustainable Architecture and Urbanism	3	7,50	Geomatics Engineering (MSc) (Thesis)	Doç. Dr. AYGUN KALINBAYRAK ERCAN
SUR-5009	Sustainable Fisheries and Aquaculture	3	7,50	Animal Science (MSc) (Thesis)	Prof. Dr. NIHAT YEŞİLAYER
TAB-6013	Sustainable Agriculture	3	7,50	Field Crops (PhD)	Doç. Dr. AHMET KINAY
BAH-5086	Sustainable Agriculture in Horticultural Plants	3	7,50	Horticultural Plants (MSc) (Thesis)	Dr. Öğr. Uyesi HAKAN KARADAG
BAH-6016	Organic and Sustainable Viticulture	3	7,50	Horticultural Plants (PhD)	Prof. Dr. RUSTEM CANGI
BAH-6029	Sustainable Vegetable Production	3	7,50	Horticultural Plants (PhD)	Prof. Dr. NECDETTİN SAGLAM
BIS-6015	Soil Tillage for Sustainable Production	3	7,50	Biosystems Engineering (PhD)	Prof. Dr. ENGIN OZGOZ
TEK-6014	Sustainable Rural Development	3	7,50	Agricultural Economics (PhD)	Doç. Dr. HAYRIYE SIBEL GULSE BAL