

Courses on Sustainability with Numbers

Faculties	All Courses			Courses on Sustainability		
	Associate's Degree	Bachelor's Degree	Master Degree	Associate's Degree	Bachelor's Degree	Master Degree
Engineering Faculty		825	513		127	187
Faculty of Education		763	902		156	191
Faculty of Agriculture		889	588		251	252
Faculty of Economics and Administrative Sciences		338	458		22	162
Faculty of Architecture		1119	577		246	217
Sports Science Faculty		135	120		8	9
Faculty of Health Sciences		127	41		2	3
Medical School		72	118		38	41
Faculty of veterinary medicine		184	217		86	82
Faculty of Architecture		159	349		12	65
Vocational School						
Vocational School of Technical Sciences	816			89		
Mennan Pasinli Vocational School	44			3		
Health Sciences Vocational School	533			247		
Total	1393	4611	3883	339	948	1209
General Total	9887			2496		

Ratio of Sustainability Courses

Ratio of Sustainability Courses in All Courses	%25,24
Proportion of Sustainability Courses in Associate Degree Courses	%24,33
Ratio of Sustainability Courses in Undergraduate Courses	%20,55
Proportion of Sustainability Courses in Graduate Courses	%31,13

Courses Related to Sustainability (Selected)

Short Cycle

Course	Department	Objectives	Web
Organic Foods	Food Technology	To introduce organic foods, which are increasing in importance today and will be more important in the future. To inform students about the steps to be followed in the process from growing animal and herbal organic products to reaching the table. It is also aimed to provide information about the production processes of organic foods, the additives to be used, packaging materials and the interactions between them and the products..	http://bilgipaketi.uludag.edu.tr/Ders/Index/1102858
Environmental Protection	Food Technology	To gain knowledge and skills about environmental and human health protection rules	http://bilgipaketi.uludag.edu.tr/Ders/Index/1102849
Local Products Technology	Food Technology	Within the scope of the course, the importance of local products, their characteristics and different local products are taught according to the regions..	http://bilgipaketi.uludag.edu.tr/Ders/Index/1102898
Solar energy	Air Conditioning Cooling	To understand the importance of solar energy, which is one of the renewable energy sources, to recognize solar water heating systems and other installation systems using solar energy and to	http://bilgipaketi.uludag.edu.tr/Ders/Index/1112359

		understand their functioning. To be able to use the calculation methods used in the selection and sizing of solar water heating systems.	
Energy Management	Natural Gas and Installation Technology	To learn the main principles governing the conversion of chemical, mechanical, thermal, etc. energies to each other in order to ensure the diversity of energy sources, to learn the working principles of today's technologies and installation elements, and to make basic calculations.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1112356
Natural Flower Bulbs	Landscape and Ornamental Plants Cultivation	Introducing important bulbous, tuberous and rhizome plants in our country's flora and used in landscape planning, giving their plant characteristics and production techniques, raising nature awareness in students.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1107616
Environmental problems	Landscape and Ornamental Plants Cultivation	Understanding the importance of the environment, the main pollutants of the environment, air, water, soil and radioactive pollution and the factors causing this pollution, the effects of environmental pollution on nature and human health, environmental problems in our country and conveying the necessary precautions	http://bilgipaketi.uludag.edu.tr/Ders/Index/1108212
Medicinal and Aromatic Plants	Landscape and Ornamental Plants Cultivation	Botanical characteristics and culture of medicinal and aromatic plants; To convey important issues such as climate and soil requirements, planting-planting times, care and fertilization, harvesting, consumption, plant parts used, active ingredients.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1108218
Organic farming	Landscape and Ornamental Plants Cultivation	The aim of the course is to provide students with basic knowledge and skills that can improve the diversity and cycles in the agro-ecosystem in all applications of organic agriculture, provide equal and healthy living conditions to all beings, and take care in making decisions.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1109391
Good Agricultural Practices	Landscape and Ornamental Plants Cultivation	To be able to comprehend the basic information and to recommend and apply the appropriate methods to make the agricultural production system socially viable, economically profitable and efficient, protecting human health, giving importance to animal health and welfare and the environment..	http://bilgipaketi.uludag.edu.tr/Ders/Index/1109394

Renewable Energy Systems	Hybrid and Electric Vehicles Technology	Understanding renewable energy (alternative energy) types.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1109833
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Bachelor's Degree

Course	Department	Objectives	Web
Water Pollution and Control	Environmental Engineering	The aim of the course is to introduce the problems related to the pollution of water resources today, to explain the structure and components of the aquatic environment. It is to explain the basic concepts and processes related to physical, chemical and microbiological quality by defining the pollution elements.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1090944
Purification of Drinking Water	Environmental Engineering	It is to define the physical, chemical and biological properties of the existing water resources in nature and to dimension the appropriate treatment alternatives that will meet the TS 266 criteria for the use of water resources for drinking water purposes.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1090960
Environmentally Compatible Renewable Energy Sources	Environmental Engineering	To provide students with an analytical understanding and skills on clean and renewable energy sources and technologies, energy efficiency and savings, and environmental effects of energy use, by evaluating energy supply, which is an indicator of the development of societies, from an environmental	http://bilgipaketi.uludag.edu.tr/Ders/Index/1090895

		perspective.	
Waste Recycling	Environmental Engineering	Creating environmental awareness - Understanding the relationship between environmental pollution and human factor - Raising awareness on waste, recovery and recycling	http://bilgipaketi.uludag.edu.tr/Ders/Index/1090950
Pollution Prevention and Waste Reduction Techniques	Environmental Engineering	It is necessary to create sustainable solid waste management; In addition to general information covering waste reduction and pollution prevention methods that will minimize waste production, the benefits of pollution prevention strategies, possible obstacles to pollution prevention strategies and options that can be used in this regard, pollution prevention tools and methods, legal regulations and waste reduction techniques. It is aimed to give basic information about the	http://bilgipaketi.uludag.edu.tr/Ders/Index/1090987
Wastewater Reuse Techniques	Environmental Engineering	It is to emphasize the environmental benefits of recycling and reuse of wastewater and its importance for future generations and to give relevant technologies and practices.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1091003
Environmental Management System and Standards	Environmental Engineering	To introduce the environmental management system standards, to give information about the ISO 14001 standard, to show the application examples of companies in Turkey and foreign countries.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1091006
Natural Systems	Landscape architecture	It aims to design and explain	http://bilgipaketi.uludag.edu.tr/

and Design		conceptual approaches by considering all components of nature. It is aimed to explain the components of nature such as land forms, topography, plant elements, water and spatial definitions and the use of these components, ecological design and natural landscape systems.	Ders/Index/1125183
Landscape Nursery Technique and Afforestation	Landscape Architecture	It is aimed to give topics such as afforestation and nursery planning and technique, nursery organization forms, maintenance and marketing.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1125259
Nature Conservation and National Parks	Landscape Architecture	It is aimed to give the definition of nature protection, the relationship between nature protection and environmental protection, the legal basis for determining protected areas, the planning criteria of protected areas, and the management of protected areas.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1125208
Green Space Planning	Landscape Architecture	It is aimed to introduce the importance of planning open green spaces and planning principles and the planning made in line with these principles.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1125239
Ecotourism	Landscape Architecture	It is aimed to plan ecotourism, which aims to protect the ecological system balances, and to teach its environmental and social effects..	http://bilgipaketi.uludag.edu.tr/Ders/Index/1125277
Organic farming	Horticulture Department	Giving information about plant-nature relationship, human-plant relationship. It is aimed to teach the	http://bilgipaketi.uludag.edu.tr/Ders/Index/1118199

		legal practices and feasibility of organic agriculture.	
Good Agricultural Practices	Horticulture Department	It is to enable students to comprehend the basic information about good agricultural practices, recommend and apply appropriate methods for agricultural production to be realized with the awareness of food safety, traceability and sustainability, while observing the environment, human and animal health, preserving natural resources.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1118207
Animal Husbandry in Ecological Agriculture	Zootechnic	Teaching basic information about animal husbandry in ecological agriculture	http://bilgipaketi.uludag.edu.tr/Ders/Index/1124158
Plant Protection in Organic Agriculture	Plant Protection	The aim of this course is to teach the general principles of plant protection principles and methods in organic (ecological) agriculture, legal regulations and certification, and ecological plant protection methods used in the fight against diseases and pests seen in organic products.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1119406
Organic Agriculture Economics and Marketing	Agricultural Economics	Organic agriculture, which is one of the options that contribute to the development of sustainable agriculture, makes significant contributions to the country's economy and this contribution is expected to increase further in the coming period. The aim of this	http://bilgipaketi.uludag.edu.tr/Ders/Index/1118720

		course is to examine the economic structure of organic agriculture (production, marketing, certification) from different aspects.	
Organic Agriculture in Field Crops	Farm Plants	To explain the methods of the agricultural system that do not harm the nature (human, animal, plant, underground and aboveground resources).	http://bilgipaketi.uludag.edu.tr/Ders/Index/1120023
Good Agricultural Practices in Field Crops	Farm Plants	Students will be able to comprehend basic information about good agricultural practices, recommend and apply appropriate methods.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1120022
Waste Management in the Food Industry	Food Engineering	It is to provide students with theoretical and practical knowledge about the use of wastes and by-products obtained from various branches of the food industry in different industries and making them harmless to the environment and human health.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1121929
Organic Livestock	Faculty of Veterinary Medicine	To have information about the definition of organic production, its justification, benefits, regulations, basic standards in animal production	http://bilgipaketi.uludag.edu.tr/Ders/Index/1091297
Sustainable Poultry Systems	Faculty of Veterinary Medicine	To provide them with advanced training on the importance of sustainability, organic, good agricultural practices, functional (enriched), egg and chicken meat production in free circulation systems, as well as basic	http://bilgipaketi.uludag.edu.tr/Ders/Index/1091378

		maintenance and management information about fertilizer and waste management.	
Water Pollution and Human Health	Medicine	The aim of this course is to provide an understanding of the effects of environmental problems caused by water pollution types on human health. The objectives of the course are to teach what specific types of water pollutants are, the damage they cause to the ecosystem and their relationship with human health.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1116512
Water Supply and Environmental Health	Civil engineering	They will have professional development on where and how to obtain water, which has a vital importance in human life. In addition, they will make a significant progress in removing the used water to suitable places without harming the environment.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1091121
Environmental Issues and Geography	Geography	The aim of this course is to investigate today's environmental problems from a geographical perspective and to examine the pressure on the earth in a broader context with human and physical elements.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1094374
Herbal Natural Compounds	Biology	What are the natural compounds of plant origin, how and where they are obtained, their properties, diagnosis and quality controls, where and how these compounds are used, their	http://bilgipaketi.uludag.edu.tr/Ders/Index/1094698

		mechanisms of action and drugs with widespread use are given.	
Sustainability and Architecture	Architecture	It is aimed to understand the concept of "sustainability", which was introduced in order to prevent the negativities caused by the rapid transformation experienced in the globalization process in the world and in Turkey, and the relations of this concept with architecture, which is an interdisciplinary field of study, in different dimensions.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1120133
Sustainable Urban Development and Housing Areas	Architecture	To understand how the physical, social and cultural changes in the cities during the globalization process affect the residential areas where a large part of human life is spent. Architect candidates' understanding of the importance of the interaction between the different dimensions of constantly living urban development and residential areas. Thus, understanding how important a requirement for sustainable urban development is for humanity and the task of architects in this regard.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1120146

Master Degree

Course	Department	Objectives	Web
Energy Use in Agriculture	Biosystems Engineering	The aim of the course is to place the energy course that the student has taken in undergraduate and to complete the missing subjects that cannot be given in the undergraduate. After this course, it is aimed that the students will be able to bring solutions to the problems in the field of energy production and use.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1100625
Agricultural Applications of Solar Energy	Biosystems Engineering	Today, renewable energy sources, which are taking firm steps towards becoming an alternative to fossil-based energies, attract the attention of people from almost every branch. In this context, the aim of this course is to provide the students with the opportunity to benefit effectively from the knowledge they have acquired about the applications of solar energy by establishing a solid	http://bilgipaketi.uludag.edu.tr/Ders/Index/1100649

		foundation on the basic concepts and principles of climate change and solar energy.	
Recovery and Reuse Techniques in Industrial Wastewater	Environmental Engineering	Dersin amacı, atık suların geri kazanımı ve farklı amaçlar için faydalı kullanımına yönelik uygulanabilecek arıtma teknolojilerine ait temel kavramların ve boyutlandırma esaslarının öğretilmesidir.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1101310
Environmental Pollution and Energy Efficiency in Control	Environmental Engineering	To have information about energy sources and their environmental effects, To provide technical, practical and economic solutions about energy use in industrial facilities and residences, To teach the basics of energy efficiency and saving in industry and daily life, To learn the relationship between energy and greenhouse gas emissions and to create energy efficiency awareness	http://bilgipaketi.uludag.edu.tr/Ders/Index/1101302
Sürdürülebilir Mühendislik	Sustainable Engineering	The aim of this course is to inform industrial engineers about sustainability and to gain the perspective of	http://bilgipaketi.uludag.edu.tr/Ders/Index/1106911

		considering industry-society-environment interaction in industrial engineering applications.	
Natural Resources and Environmental Economics	Agricultural Economics	Use of economic principles in natural resource management	http://bilgipaketi.uludag.edu.tr/Ders/Index/1115199
Sustainable Rural Development Policies and Indicators	Agricultural Economics	Teaching adult education techniques to increase the living standards of people living in rural areas. To provide students with knowledge and skills about programming and conducting activities to be carried out for this purpose. Gaining the skills of transferring innovations to rural people and providing behavioral change for the development of rural areas.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1115230
Biofuel Production	Environmental Engineering	To teach the raw materials, production techniques, usage purposes and areas of biofuels in solid, liquid and gaseous form. To teach the advantages of biofuels over fossil fuels. To teach the raw materials, production techniques, usage purposes and areas of biofuels in solid, liquid and gaseous	http://bilgipaketi.uludag.edu.tr/Ders/Index/1100909

		form. To teach the advantages of biofuels over fossil fuels.	
Biotechnology Applications in Plant Breeding and Genetics	Plant Breeding Genetics and Biotechnology	The place and importance of biotechnology in our lives, the scientific fields it is related to, its fields of application and the changes it has shown in the historical process, and the biotechnological products we use today, the place and purposes of biotechnology in plant production are explained. It is aimed to inform the student about the role of tissue and cell culture technology and genetic engineering applications in plant production and the application of the resulting Biosafety issue.	http://bilgipaketi.uludag.edu.tr/Ders/Index/1099308
Energy and Environment	Mechanical engineering	Examining the technologies of using existing energy resources in a way that will cause less harm to the environment, techniques for minimizing the damage of conventional energy production systems to the environment, efforts to	http://bilgipaketi.uludag.edu.tr/Ders/Index/1112743

		prevent thermal pollution through the evaluation of waste heat, alternative energy sources, high efficiency and environmentally friendly technologies.	
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