



Template for Evidence(s) UI GreenMetric Questionnaire

University : Bursa Uludag University
 Country : Turkey
 Web Address : <http://www.uludag.edu.tr/english/default>
 Web Address for Sustainability Office: <https://uludag.edu.tr/sustainability>

[6] Education and Research (ED)

[6.1] Number of Courses/Subjects Related to Sustainability Offered

Example of Courses/Subjects Related to Sustainability (Bursa Uludag University, Turkey)

| Faculties | All Courses | | | Courses on Sustainability | | |
|--|--------------------|---------------|-------------|---------------------------|----------------|-------------|
| | Associate's Degree | Undergraduate | Graduate | Vocational School | Under-graduate | Graduate |
| Faculty of Engineering | | 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 Arts and Sciences | | 1119 | 577 | | 246 | 217 |
| Faculty of Architecture | | 135 | 120 | | 8 | 9 |
| Sports Science Faculty | | 127 | 41 | | 2 | 3 |
| Faculty of Health Sciences | | 72 | 118 | | 38 | 41 |
| Faculty of Medicine | | 184 | 217 | | 86 | 82 |
| Faculty of veterinary medicine | | 159 | 349 | | 12 | 65 |
| Vocational Schools | | | | | | |
| Vocational School of Technical Science | 816 | | | 89 | | |
| Vocational School of Mennan Pasinli | 44 | | | 3 | | |
| Vocational School of Health Sciences | 533 | | | 247 | | |
| Total | 1393 | 4611 | 3883 | 339 | 948 | 1209 |
| Grand Total | | | 9887 | | | 2496 |

Share of Sustainability in the Courses

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|---|--------|
| Share of Sustainability Courses in All Courses | 25.24% |
| Share of Sustainability Courses in Associate's Degree Courses | 24.33% |
| Share of Sustainability Courses in Undergraduate Courses | 20.55% |
| Share of Sustainability Courses in Graduate Courses | 31.13% |



Courses on Sustainability (Selected)

Common Degree Courses

| Name of the Course | Department | The objective of the course | Web address |
|---------------------------------|---|--|---|
| Organic Foods | Food Technology | To introduce organic foods that are of increasing 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 vegetable organic products to reaching the table. It is also aimed to provide information about the production processes of organic foods, additives to be used, packaging materials, and the interactions between them and products. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1128055 |
| Environmental Protection | Food Technology | To develop an ability to learn the rules for saving the health of humans and the environment | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1102849 |
| Local Dairy Products Technology | Food Technology | The importance and properties of local products and different local products according to the regions are taught within the scope of the course. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1102898 |
| Solar Energy | Air-Conditioning and Refrigeration | It is about knowing solar power, which is one of the most important renewable energy sources and obtaining detailed information about the working principles of systems that work by this power. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1106260 |
| Energy Management | Natural Gas and Installation Technology | To learn converting principles of chemical, mechanical, thermal energies from one to another. To understand modern converting technologies and working principles of instruments. To make main calculations. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1112356 |
| Natural Flower Bulbs | Landscape and Ornamental Plants Growing | The flora of our country, the landscape is used in planning an essential bulbous, tuberous, rhizomatous plants, giving properties of botanical characteristics and production techniques, awareness of nature and the awakening of the students | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1107616 |
| Environmental Problems | Landscape and Ornamental Plants Growing | Understanding the importance of the environment, the primary pollutants of the environment, air, water, soil, and radioactive pollution and the factors that cause this pollution, the effects of environmental pollution on nature and human health, environmental problems in our country, and the measures to be taken. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1108212 |
| Medicinal and Aromatic Plants | Landscape and Ornamental Plants Growing | Botanical characteristics and culture of medicinal and aromatic plants; climate and soil requirements, planting-planting times, maintenance and fertilization, harvest, consumption, plant parts used, active ingredients. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1108218 |
| Organic Farming | Landscape and Ornamental Plants Growing | The aim of the course is to provide students with the basic knowledge and skills that can improve the diversity and cycles in the agro-ecosystem in all applications of organic | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1109391 |



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| | | agriculture, provide equal and healthy living conditions for all entities and take care in making decisions. | |
| Good Agricultural Practice in Horticulture | Landscape and Ornamental Plants Growing | It is to be able to comprehend the basic knowledge of the processes that must be applied to make the agricultural production system socially viable, economically profitable and efficient, protect human health, care about animal health and welfare and the environment, and to ensure that they can recommend and apply appropriate methods.. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1109394 |
| Renewable Energy Systems | Hybrid and Electric Vehicle Technology | Understanding of renewable energy (alternative energy) types. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1109833 |

Undergraduate Level

| Courses | Department | The objective of the course | Web address |
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| Water Pollution and Control | Environmental Engineering | The main goals of the course are to solve water quality problems of watercourses deteriorating due to mankind activities. For this purpose, physical, chemical and biological components of the receiving medium and interactions between them are explained in detail. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1090944 |
| Drinking Water Treatment | Environmental Engineering | Defining of physical, chemical, biological features of water resources in nature, design of suitable treatment alternatives which obtains TS 266 criteria. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1090960 |
| Compatible With The Environment of Renewable Energy Sources | Environmental Engineering | Societies, which is an indicator of development in the energy supply of clean and renewable energy sources and evaluating the environmental perspective in terms of technology, energy efficiency and conservation, and environmental impacts of energy use issues and the skills to give students an analytical understanding | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1090895 |
| Recycling of Wastes | Environmental Engineering | To build environmental consciousness -To comprehend the relationship between environmental pollution and human factor. - To raise awareness for wastes, recovery and recycling issues. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1090950 |
| Pollution Prevention and Waste Minimization | Environmental Engineering | To teach the basic knowledge about waste minimization, pollution prevention methods, the benefits of pollution prevention strategies, possible barriers against pollution prevention strategies, and legal regulations necessary for creating sustainable solid waste management. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1090987 |
| The Reuse Methods of Wastewater | Environmental Engineering | The environmental benefits of recovery and reuse of wastewater, and to highlight the importance related technologies and applications. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1091003 |
| Environmental Management System and | Environmental Engineering | The main goals of the course are to explain main principles and tools of Environmental Management System, to give an information | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1091006 |



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| Standards | | about the ISO 14000 series, and to show some practices from Turkey and the World. | |
| Natural Systems and Design | Landscape Architecture | It is aimed to explain designing along with all the components of nature and the conceptual approach about it. It is aimed to tell the usage of landforms, topography, planting elements, and water, ecological design and natural landscape systems. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1125183 |
| Landscape Nursery Technique and Afforestation | Landscape Architecture | It is aimed to give planning of plantation and nursery, techniques of nursery organization, care, marketing, etc. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1125259 |
| Nature Conservation and National Parks | Landscape Architecture | The aim of this course is to give the definition of nature conservation, the relationship between nature conservation and environment protection, the legal basis for defining protected areas, the planning criteria of protected areas, the management of protected areas. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1125208 |
| Green Space Planning | Landscape Architecture | The importance of planning of open green areas and planning principles and the examples which has been carried out according to planning of these principles are aimed to be introduced. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1125239 |
| Ecotourism | Landscape Architecture | It is aimed to teach ecotourism planning and environmental and social effects to protect ecological system balances. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1125277 |
| Organic Farming in Horticulture | Horticulture | Giving information about the relationship between plant and nature, human plant relationship. Legal applications related to organic agriculture. Soil, water, plant, animal relations and preservation of balance in natural life. Informing about organic production and competitiveness of cultivated plants in agriculture. It is aimed to teach control methods in organic agriculture and organic production techniques in selected species. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1118199 |
| Good Agricultural Practice in Horticulture | Horticulture | The aim of the course is to enable the students to comprehend the basic information about the good agricultural practices required for agricultural production by protecting the natural resources, by protecting the natural resources, by protecting the environment, human and animal health, and to be able to recommend and apply the appropriate methods. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1118207 |
| Organic Animal Husbandry | Animal Science | To teach the basic knowledge about animal husbandry in ecological farming. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1122517 |
| Plant Protection in Organic Farming | Plant Protection | The objective of this course is to introduce the general principles and methods of plant protection in organic farming, the legal and certification aspects and the ecological methods used for control of plant diseases and pests in organic crops | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1119406 |



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| Organic Farming Economy And Marketing | Agricultural Economics | Contribute to the development of sustainable agriculture, organic agriculture is one of the options in the coming period, and this contribution is contributing substantially to the country's economy is expected to increase even more. The purpose of this course, the economic structure of organic agriculture (production, marketing, certification) to examine different ways. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1118720 |
| Organic Culture in Field Crops | Field crops | The aim of this lecture is to explain methods of agriculture system which doesn't harm the nature(human, animal, plant, underground and surface sources) | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1120023 |
| Good Agricultural Practices in Field Crops | Field Crops | To provide the students to comprehend basic information on good agricultural practices, to recommend proper methods and to apply | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1120022 |
| Waste Management in Food Industry | Food Engineering | It is to provide students with theoretical and practical knowledge about the use of waste 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/IndexENG/1121929 |
| Organic Animal Husbandry | Veterinary Medicine | To teach; Introduction, basic principles and future perspectives in organic farming, hussbandry management practises in organic milk, red meat, broiler and egg production, control, certificate and regulations in organic production, description of organic feed, classification and spesification of organic feeds, using of conventional feeds in organic – ecologic farms, using of feed additives in organic – ecologic animal nutrition. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1091297 |
| Sustainable Poultry Production | Veterinary Medicine | To educate qualified students in the field of production techniques in sustainable layer and broiler production | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1091378 |
| Water Pollution And Human Health | Medicine | The aim of the course is to provide to understanding of the effects on human health of key types of water pollution. The goals are to teach the specific water pollutant types, their damage of ecosystem andrelationships with human health. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1116512 |
| Water Supply and Environmental Health | Civil Engineering | To teach the planning and design methods of water supply and wastewater systems. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1091121 |
| Environmental Problems and Geography | Geography | The aim of this course is to investigate today's environmental problems from a geographical perspective and to investigate the pressure on the earth in a wider scope with human and physical elements | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1089162 |
| Natural Products of Plants | Biology | What are plant derived natural compounds, how and where they are obtained, their features, identification, quality controls, where and how to use, the effect mechanism | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1094698 |



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| | | of them and widely-used drugs are given in the frame of the course. | |
| Sustainability and Architecture | Architecture | The aim of the course is to explain the meaning and inclusion of the concept of "sustainability" and to make the students of architecture aware of their responsibilities in order to achieve sustainable development. To understand the relations of the term sustainability with architecture. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1120133 |
| Sustainable Urban Development and Residential Areas | Architecture | The aim of the course is to gain awareness about the importance of the housing areas with their different specifications and meanings. To make the architecture students conscious about the meaning of quality of life and quality of space especially in housing areas. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1120146 |

Graduate Level

| Courses | Department | Objective of the course | Web address |
|--|---------------------------|--|---|
| Energy Use in Agriculture | Biosystems Engineering | Some energy issues is given in more details in this course which is not given in Undergraduate education. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1100625 |
| Agricultural Applications of Wind 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 student with the opportunity to benefit effectively from the knowledge he / she obtained on solar energy applications by creating a solid foundation on the basic concepts and principles of climate change and solar energy. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1100649 |
| Recycle and Reuse Techniques on Industrial Wastewaters | Environmental Engineering | The objective of the course is to teach the main concepts and the principles of dimension peculiar to treatment technologies which can be applied intended for the reclamation and beneficial usage for different purposes of wastewater. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1101310 |
| Energy Efficiency in Environmental Pollution and Control | Environmental Engineering | Having knowledge about energy sources and environmental impacts, Provide technical, practical and economic solutions related to energy use in industrial plants and house, Teaching the fundamentals of energy efficiency and saving in industry and everyday life, understanding the relationship between energy and greenhouse gas emissions and energy efficiency is the creation of awareness. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1101302 |



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| Sustainable Engineering | Industrial Engineering | Objective of this course is to provide students knowledge of sustainability and achieve perspective of considering interactions between industry-society-environment. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1106911 |
| Economics of Natural Resources and Environment | Agricultural Economics | Uses of principals of Economics in natural resource management | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1115199 |
| Sustainable Rural Development Politics and Indicators | Agricultural Economics | To teach adult training techniques to raise the living standards in rural areas. To get information and skills about carrying out and programming activities that will be held parallel to this purpose. To earn ability to transfer innovations and to ensure behavioral changes for the development of rural people living in rural areas. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1115230 |
| Production of Biofuels | Environmental Engineering | Teaching the raw materials of biofuels, which is in solid, liquid and gaseous form; production techniques, and its purpose of usage. Teaching the superiority of biofuels to fossil fuels. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1101272 |
| Biotechnology Applications in Plant Breeding and Genetics | Plant Growth Genetics and Biotechnology | The place and importance of biotechnology in our lives, the scientific areas it is related to, its application areas and the changes it has shown in the historical process, and the biotechnological products we use today, and the place and objectives 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 | The course objective is to enlighten the students on the topics listed below; energy and the environment relationships, energy resources, how to minimize the environmental pollutions caused by energy technologies, energy friendly technologies. | http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1112743 |



Description:

Above is a list of the selected courses on sustainability given by different faculties of Bursa Uludag University. All of the courses were approved by Bursa Uludag University Senate. The courses were run in 2020-2021 Educational Year.

Total number of courses with sustainability embedded for courses running in 2020/21: 2496