

Course Code	Course Name	Programme / Department	Link to / Relationship with Sustainability and Related Themes (Ecology, Environment, Energy, Water Resources, Society, Economy, etc.)
AR101	Introduction to Design	Architecture	The course covers basic concepts, terminology and principles of design as well as themes related to social and environmental sustainability in order to increase the competency of future architects in the areas of design, history, building technology and sciences, structural elements and systems, and ecology and sustainability.
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AR121	Introduction to Architecture	Architecture	The course makes an introduction to the basic vocabulary of architecture which includes natural & manmade environment, building, architectural space, structure, construction, trends & styles, etc.; and thereby aims to enhance competency of future architects in the areas of design, history, building technology and sciences, structural elements and systems, and ecology and sustainability.
AR201	Architectural Design I	Architecture	The course introduces physical and social definitions of space and place. It helps students grasp spatial relations in the natural and built environment in the human scale and their enhancement for simple uses. By this way it aims to enhance competency of future architects in the areas of design, history, building technology and sciences, structural elements and systems, and ecology and sustainability.
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AR221	History and Theory of Architecture	Architecture	The course covers issues including the impact of economic and political structures on architecture and urbanism, as well as social, economic and environmental sustainability.
AR231	Structures in Architecture I	Architecture	The course covers technical themes related to structural mechanics and contributes to students' understanding of sustainability in its wide framework.
AR251	Building Technology and Science	Architecture	The course covers technical themes related to building technology and contributes to students' understanding of sustainability in its wider framework.
AR281	Building Physics I	Architecture	In the course, energy and sustainability related issues are covered. Energy and energy efficiency are considered by using "Energy Performance Regulations in Buildings"; and heat and moisture transfer in buildings are investigated based on "Heat Insulation Regulations in Buildings". The course name is later changed into "Introduction to Energy and Heat Transfer".
AR290	Summer Practice III: Construction Site (6 Weeks)	Architecture	This course is conducted as an internship and requires the students to witness and participate in the practical application of construction onsite. By this way it aims to enhance the practical competency of future architects in the areas of building technology and sciences, structural elements and systems, and ecology and sustainability.
AR301	Architectural Design III	Architecture	The course is structured around the design a public building in an urban context. It introduces necessary concepts, theories and methods for understanding and analyzing a part of urban fabric. Thereby it aims to enhance the competency of future architects in the areas of design, history, building technology and sciences, structural elements and systems, and ecology and sustainability.
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AR331	Structures in Architecture I	Architecture	The course covers technical themes related to structural mechanics and contributes to students' understanding of sustainability in its wide framework.
AR351	Building Technology and Science	Architecture	The course gives knowledge to students to establish the relationship between structure and space, and and contributes to students' understanding of sustainability in its wider framework.
AR361	Digital Media and Architectural Design	Architecture	This course seeks to bring in new viewpoints to the architectural design-oriented experimental 'representation' production processes by introducing the undergraduate students with the creative opportunities provided by digital media tools to enhance their accesibility and visibility in the wider society. Thereby it contributes to social sustainability.
AR365	Building Information Modeling	Architecture	The course covers issues related to Business Information Modelling, supported by case studies, and presentations made by industry professionals. These include themes related to economic and social sustainability.
AR381	Building Physics II	Architecture	The course aims to provide an introduction to theoretical foundations inarchitectural acoustics and lighting, including light sources; indoor lighting calculation; daylighting; lighting design principles as well as issues related to social and environmental sustainability.
AR382	Ecological Studies in Architecture	Architecture	Theoretical framework of ecological approach and its reflection to architecture; The concepts of green and sustainable architecture; Historical evolution of ecological design in architecture; The examples of different approaches in ecological point of view from Turkey and the other countries.
AR390	Summer Practice IV: Architectural Office Practice (6 Weeks)	Architecture	The course is conducted as an architectural office practice provideing students an office experience with collaborating an architectural project, understanding the office management and contributing to the design process. Themes related to sustainability are also incorporated into the content.
AR429	Introduction to Architectural Restoration	Architecture	The course tackles theh architectural restoration problem with an eye to the heritage values, conservation problems, intervention approaches and implementation principles.It also covers social and envirnmental sustainability themes.
AR451	Project and Building Management	Architecture	Project management principles, techniques and tools, leadership, cost control and total quality management concepts and thereby, sustainability issues are covered in the course.
AR454	Construction Project Planning & Scheduling	Architecture	This course covers principles and applications of planning and scheduling a construction project and themes related to sustainability.
AR483	Design Principles of Energy Efficient Building	Architecture	This course illustrates the principles of design of energy efficient buildings in four major contexts; global context, site context, building context, and renewable energy context. In addition, it illustrates the design tools and design methods of energy efficient building. Case studies of existing energy efficient buildings will be covered and some other applications.
AR485	Integrated Building Systems	Architecture	In this course, integrated systems effected by wind and sun are investigated. Themes related to sustainability are covered too.
AR521	Contemporary Trends in Architecture		The course aims to enhance competency of future architects in the areas of design, history, building technology and sciences, structural elements and systems, and ecology and sustainability, by providing knowledge on modern approaches.

AR537	Structural Fire Safety	Masters in Architecture	Themes related to sustainability are covered in this course, in which the issue of fire safety of buildings is tackled.
AR540	Socio-Cultural Studies in Architecture	Masters in Architecture	The course covers following issues; Identity and the Other: The Politics of Difference; Modernity and Modernizations; Memory, Space, and Material Culture; The Traditional, The Vernacular, and The Ordinary; Gender and Space; Theories of Public Space; Consumption Culture ; Environmentalism; Globalization and Its Spatial Transformations; Globalization and Glocalization in Architectural Practice. It aims to enhance the competence of students in the areas of ecology and sustainability.
AR542	Issues of Behavior and Culture in Environmental Design Research	Masters in Architecture	The course covers the origins, the evolution, and the current issues of the field; namely the environment and behavior research. The focus is on understanding and exploring links between the physical environment and human behavior and experience. It aims to enhance the competence of students in the areas of environment and sustainability.
AR545	Cognitive Issues in Design	Masters in Architecture	This course will introduce different issues in design cognition that have been discussed since 1970s. The primary concern will be definitions of design and explanations of the design process. Thereby it aims to enhance the competency of future architects in the areas of design, history, building technology and sciences, structural elements and systems, and ecology and sustainability.
AR553	Project Management	Masters in Architecture	In this course, the theory and practice of project management, including sustainability related issues are taught.
AR562	Architecture and Science	Masters in Architecture	Modernity and architectural knowledge, concepts, approaches, theories and sustainability related themes are tackled.
AR581	Principles of Building Physics	Masters in Architecture	In this course, fundamentals of building physics are taught. Themes related to sustainability are also covered.
AR584	Introduction to Building Energy Simulation	Masters in Architecture	This course develops an understanding on basics of energy efficient architecture and builds on this to develop skills in energy simulation for buildings
AR589	Energy Efficient Lighting Design	Masters in Architecture	This is a course to present fundamentals architectural lighting design, with its energy efficiency, and its analysis under the basic issues of building physics; and to conduct research methods for these topics. The education method is based on lectures with working assignments and practical exercises. Students will conduct research into each issue of lighting in simple problems and report them. The aim is to set a strong link with practice and practical problems.
AR594	Programming Fundamentals for Computational Design	Masters in Architecture	The course is about the theory and practice of project management. It also involves sustainability related issues.
AR595	Rural Transformation and Built Environment	Masters in Architecture	Concepts and definitions in relations to rural, urban and rural relations, rural architecture, new spatial organisations in rural areas as well as sustainability related issues are covered.
AR600	PhD Thesis	PhD in Architecture	This is a research oriented course leading to a PhD degree and involves sustainability related issues.
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AR808	Special Studies	PhD in Architecture	This is a research based graduate course of the Department of Architecture, in which sustainability issues are covered. Graduate students study advanced topics under the guidance of their advisor.

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BE101	Introduction to Bioengineering	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE201	Matter and Energy Equations in Engineering	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE203	Molecular Biology	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE205	Fundamentals of Electrics and Electronic Circuits	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE300	Summer Internship I	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE301	Transport Phenomena in Biological Systems	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE305	Statistical Tools for Bioengineers	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE307	Cell Biology	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE309	Biomaterials	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE311	Bioprocess Engineering	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.

BE401	Design in Bioengineering	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE403	Bioengineering Lab II	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE405	Biomedical Instrumentation II	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE407	Application of Biotechnology in Pharmaceutical Sector	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE409	Introduction to Biomolecular Engineering	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE410	Introduction to Tissue Engineering	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry. Sustainability related issues are integrated into the course content.
BE415	Characterization of Biomedical Nanomaterials	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE417	7 Macromolecular Dynamics: From Structure to Function	Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE501	Principles of Bioengineering I	Masters in Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE504	Applied Bioengineering	PhD in Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE505	Advanced Physiology	PhD in Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.

BE512	Biomolecular Engineering	Masters in Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE547	Tissue Engineering and Regenerative Medicine	Masters in Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE577	Design of Medical Drugs	Masters in Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
BE591	Special Topics in Bioengineering	Masters in Bioengineering	The course aims to train students and give them the necessary knowledge to produce high value technologies, products and information using innovative bioengineering approaches to solve problems in national and international priority areas such as health and pharmaceutical industry, and environmental and energy industry.
CENG323	Project Management	Computer Engineering	In this course, the theory and practice of project management, including sustainability related issues are taught.
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CE101	Introduction to Civil Engineering	Civil Engineering	The course aims to introduce the civil engineering profession including ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE203	Engineering Geology	Civil Engineering	The course has sustainability related issues such as rock and mineral types, soil properties, rock mechanics, geologic structures, active tectonics and earthquake hazards, slope stability and landslides, groundwater, dams and tunnel and effect of geological factor on environmental and engineering structure.
CE221	Engineering Mechanics I: Statics	Civil Engineering	The course focuses on technical issues so that the students acquire ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE224	Mechanics of Materials	Civil Engineering	The course focuses on technical issues so that the students acquire ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE231	Engineering Economy	Civil Engineering	The course provides information on project management, business practices, risk management and change management; knowledge of entrepreneurship, innovation and sustainable development.
CE241	Materials Science	Civil Engineering	The course focuses on technical issues so that the students acquire ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE321	Introduction to Structural Mechanics	Civil Engineering	The course focuses on technical issues so that the students acquire ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE351	Introduction to Transportation Engineering	Civil Engineering	The course covers transportation related issues in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.

CE361	Soil Mechanics I	Civil Engineering	The course covers soil related technical and scientific issues in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE371	Hydromechanics	Civil Engineering	The course covers technical issues in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE421	Fundamentals of Structural Steel Design	Civil Engineering	The course covers technical issues in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE422	Structural Design: Concrete Structures	Civil Engineering	The course covers technical and software issues in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE430	Reinforced Concrete	Civil Engineering	The course covers technical issues in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE443	Introduction to Historical Construction Materials	Civil Engineering	The course covers technical issues and laboratory research techniques in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE452	Highway and Airport Pavement Materials	Civil Engineering	The course covers chemical and physical properties of asphalt aiming to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE454	Traffic Engineering	Civil Engineering	The course covers traffic related technical issues aiming to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE464	Soil Modeling and Computational Soil Mechanics	Civil Engineering	The course covers themes related to soil mechanics aiming to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE471	Water Resources Engineering	Civil Engineering	The course covers the following themes; Introduction to water resources, Dams, Spillways, Energy dissipation facilities, Water supply, Irrigation and drainage. It aims to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE480	Design of Coastal Structures	Civil Engineering	The course covers the following themes: Wave Climate, design wave, wave forces on vertical walls, rubble mounds and circular cylinders, design of harbour structures; quays, piers, gravity and floating breakwaters. design of breakwater layout and harbour tranquillity. Design of seawalls, revetments and groins. design of concrete block quaywalls, sheet pile walls and piled quay walls. Seismic design.
CE505	Open Channel Hydraulics	Masters in Civil Engineering	The course covers energy and momentum principles. It aims to contribute to the ability of students to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE511	Coastal Engineering	Masters in Civil Engineering	An introduction to coastal engineering with emphasis on the interaction between oceanic dynamic processes (waves, currents, and tides) and coastal regions (beaches, harbors, structures, and estuaries) and on the engineering approaches necessary to prevent adverse effects caused by this interaction.



CE521	Reinforced Concrete Members	Masters in Civil Engineering	The course covers themes related to concrete members aiming to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability. "
CE522	Highways and Airport Pavement Design	Masters in Civil Engineering	The course covers themes related to highway and airport pavement design including maintenance and rehabilitation issues along with cost analysis aiming to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE529	Soil Dynamics	Masters in Civil Engineering	The course covers issues of soil dynamics and effects of earthquakes upon structures in order to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE538	Water Resources System Engineering	Masters in Civil Engineering	Planning, design and management of water resources systems. Application of deterministic and stochastic optimization techniques. Water allocation, capacity expansion, and design and operation of reservoir systems. Surface water and groundwater management.
CE573	Structural Dynamics	Masters in Civil Engineering	The course is about structural dynamics including the earthquake response of structures and aims to provide students with the ability to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CE578	Sea Renewable Engineering	Masters in Civil Engineering	The course focuses on the following topics: Marine renewable energy, wave energy, wave energy converters, power take off systems, tidal energy, offshore wind energy, Combined systems.
CE580	Special Studies in Civil Engineering	Masters in Civil Engineering	The course is conducted as a group study of special topics in (A) Hydraulics and hydrologic engineering; (B) Geotechnical engineering; (C) Structural engineering; (D) Transportation engineering; and (E) Water resources engineering. It aims to contribute to the ability of students to design a complex system, process, device or product to meet needs under realistic constraints such as economic, environmental, health, safety, manufacturability and sustainability.
CHEM411	Biochemistry	Chemistry	Issues that has impact on sustainability such as amino acids, peptides and proteins, enzyme and coenzymes; nucleic acids and protein biosynthesis, protein metabolism, oxidative decarboxylation and citrate cycle; simple sugars and monosaccharide and polysaccharides; isoprenoid lipids, fats and fat metabolism, phospholipids, glycolipids and lipoproteins; biological membranes are covered.
CHEM447	Solar Fuels and Artificial Photosynthesis	Chemistry	The topics related to solar fuels and artificial photosynthesis, that have impact on sustainability, are covered.
CHEM462	Special Topics in Biochemistry	Chemistry	The topics related to metabolism, that have impact on sustainability, are covered.
CHEM496	Photochemistry	Chemistry	Photochemical processes are tackled and they are related to sustainability.
CHEM503	Advanced Biochemistry	Masters in Chemistry	Issues that has impact on sustainability such as amino acids, peptides and proteins, enzyme and coenzymes; nucleic acids and protein biosynthesis, protein metabolism, oxidative decarboxylation and citrate cycle; simple sugars and monosaccharide and polysaccharides; isoprenoid lipids, fats and fat metabolism, phospholipids, glycolipids and lipoproteins; biological membranes are covered.
CHEM532	Special Topics in Biochemistry	Masters in Chemistry	New developments in the field of biochemistry are covered and they are related to sustainability.
CHE211	Introduction to Polymer Science	Chemical Engineering	Topics related to polymer science and engineering are covered for students to gain an understanding of sustainable development and knowledge of and sensitivity to today's problems and the social and global effects of engineering applications on the environment, health, and safety, along with their legal consequences.

CHE213	Microbiology	Chemical Engineering	Topics such as classification and nomenclature of microorganisms, cell biology, microbial growth, metabolism of microorganisms are covered to support to gain an understanding of sustainable development and knowledge of and sensitivity to today's problems and the social and global effects of engineering applications on the environment, health, and safety, along with their legal consequences.
CHE219	Environmental Chemistry	Chemical Engineering	The topics covered in this course are; the definition of environmental terms, the fundamentals of geochemistry, atmospheric chemistry, environmental microbiology, water chemistry and treatment chemistry defined in the view of clean and polluted environment, etc. Sustainability issue is a core topic.
CHE420	Engineering Economics and Design	Chemical Engineering	The course aims to provide students with an understanding of entrepreneurship, innovation, and sustainable development, and knowledge of professional life, including project management, risk management, and change management.
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CHE424	Biomass Conversion to Chemicals And Fuels	Chemical Engineering	This course introduces various processes used in converting biomass into biofuels and chemicals and covers issues related to sustainability.
CHE439	Biomaterials	Chemical Engineering	Biomedical application of materials obtained from natural and synthetic sources and sustainability related issues are covered.
CHE525	Combustion Phenomena	Masters in Chemical Engineering	Combustion phenomena and related issues are covered with an aim to provide students with an understanding of sustainable development.
CHE542	Water and Waste Treatment	Masters in Chemical Engineering	Following topics are covered: Characteristics of water and airborne wastes treatment processes and kinetics; treatment system design: Process interactions, optimal design, treatment needs related to water supply. Sustainability is a core topic.
CHE545	Advanced Reaction Engineering	Masters in Chemical Engineering	Fundamentals of chemically reacting systems are covered with an aim to provide students with an understanding of sustainable development.
CHE549	Catalytic Surface Science	Masters in Chemical Engineering	This course focuses on the importance of catalysis for society and the classification of catalysts. Sustainability related issues are covered.
CHE565	Fundamentals of Polymer Science	Masters in Chemical Engineering	Polymers and polymerization processes are covered with an aim to provide students with an understanding of innovation and sustainable development.
CHE567	Carbon Dioxide Sequestration	Masters in Chemical Engineering	The following topics are covered: Introduction to carbon management, greenhouse gases and global warming, ways to stabilize carbondioxide in the atmosphere and carbon sequestration, sequestration in geological Formations, in unmineable coal seams, in aquifers, in abandoned oil and gas fields, in ocean, terrestrial ecosystem, soil and vegetation; stabilization by alternative energy sources, hydrogen energy, nuclear energy, wind energy, solar energy etc. with an aim to provide students with an understanding of innovation and sustainable development.
CHE594	Zeolites: Synthesis, Modification and Catalytic Applications	Masters in Chemical Engineering	The topics related to zeolites are covered with an aim to provide students with an understanding of innovation and sustainable development.
CHE595	Fundamentals of Electrochemical Engineering	Masters in Chemical Engineering	This course provides a comprehensive overview of the fundamentals of electrochemical engineering and its applications., also covering several basic energy focused electrochemical engineering applications, such as batteries and fuel-cells, with an aim to provide students with an understanding of innovation and sustainable development.
CP111	Urbanization and City Planning	City and Regional Planning	The course covers the following topics that are related to social and environmental sustainability: urbanization, types of urban settlements, urban economy, urban land, urban morphology, urbanization and natural environment, urban land use, infrastructure and transportation, urban planning problems of Turkey, development plans, renewal and conservation issues, etc. Sustainability is a core issue of the course.

CP201	Site Planning Studio	City and Regional Planning	The course aims at introducing students with the basics of site planning involving sustainability related issues. These basics include (i) analysing a settlement on a selected site and its environment with geographical, topographical and climatic features and socio-economic structures; (ii) Planning and designing a new neighbourhood on that site with its required land uses, population density, building typologies and size, transportation systems, infrastructure and other urban features according to a set of "settlement scenarios" and (iii) developing plans and projects at the scales that vary from building to neighbourhood of this new settlement.
CP201	Site Planning Studio	City and Regional Planning	The course aims at introducing students with the basics of site planning and its details for a settlement in a neighbourhood size, involving sustainability related issues. These basics include (i) analysing a settlement on a selected site and its environment with geographical, topographical and climatic features and socio-economic structures; (ii) Planning and designing a new neighbourhood on that site with its required land uses, population density, building typologies and size, transportation systems, infrastructure and other urban features according to a set of "settlement scenarios" and (iii) developing plans and projects at the scales that vary from building to neighbourhood of this new settlement.
CP201	Site Planning Studio	City and Regional Planning	The course aims at introducing students with the basics of site planning and its details for a settlement in a neighbourhood size, involving sustainability related issues. These basics include (i) analysing a settlement on a selected site and its environment with geographical, topographical and climatic features and socio-economic structures; (ii) Planning and designing a new neighbourhood on that site with its required land uses, population density, building typologies and size, transportation systems, infrastructure and other urban features according to a set of "settlement scenarios" and (iii) developing plans and projects at the scales that vary from building to neighbourhood of this new settlement.
CP243	History of Urbanism	City and Regional Planning	The course examines the history of built environment and planning in relation to the philosophical, social, economic, political and technological context of the time period (19th and 20th Centuries) studied. It also covers topics related to sustainability.
CP301	Planning Design I	City and Regional Planning	This course is carried out as an application of spatial strategic planning principles for the sustainable development of a sub-region.
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CP331	Planning Theory and Practice	City and Regional Planning	This course covers different approaches in planning theory including those that are specifically sensitive to sustainability and resilience issues.
CP335	Environmental Issues and Planning	City and Regional Planning	The course explores the fundamental concepts of ecology the interactions between natural environment and urbanization and the environmental problems created by the current trends in urban processes. Then it elaborates on the policy options and planning tools for creating sustainable urban environments and solving the environmental problems such as urban and industrial pollution chemical toxins, water scarcity, degradation in ecosystems, etc.
CP345	Urban Geography	City and Regional Planning	This course covers theories of the origin, growth and development of cities and then studies their contemporary economic functions, spatial structure and socio-cultural characteristics. It also involves sustainability related topics in its framework.
CP355	Urban Transportation Planning	City and Regional Planning	The course involves topics such as urban travel characteristics and trends, historical evolution of transport systems, demand market estimation and integration of sustainability principles.
CP390	Planning Internship II	City and Regional Planning	This course is conducted as internship in public or private planning or development agencies; designed to introduce students to professional employment and actual planning practice as well as sustainability related topics in planning.
CP401	Urban Design	City and Regional Planning	This course is conducted as an application of urban design theory, methods and techniques to specific large-scale development and redevelopment endeavours within a metropolitan area, bearing in mind social and environmental sustainability concerns.



CP500	Graduate Thesis	Masters in City and Regional Planning	This is a research-based course leading to a masters degree. Sustainability related issues are covered.
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CP500	Graduate Thesis	Masters in City and Regional Planning	This is a research-based course leading to a masters degree. Sustainability related issues are covered.
CP535	Public Transportation Systems Operations	Masters in City and Regional Planning	This course covers topics related to transportation and how it is operated, integrating sustainability principles.
CP543	Culture, Identity and Planning	Masters in City and Regional Planning	The content of this course is setting out the relations between planning, urbanism, history, culture along with cultural economy. The overall aim of the course is to offer a broad, heuristic reading of an evolving, strengthening, sometimes problematic interplay between culture, identity and planning. Social and economic sustainability related issues are covered.
CP591	Research Seminar	Masters in City and Regional Planning	In this course, each student must give a seminar on her or his research area. Sustainability related issues are covered..
CP600	PhD Thesis	PhD in City Planning	This is a research-based course leading to a PhD degree. Sustainability related issues are covered.
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CP708	Urban Theory	PhD in City and Regional Planning	The course aims to provide students with a large variety of urban theories, ranging from economic, ecological, and political economy approaches to post-colonial, culturalist, and feminist approaches to urban space. It covers sustainability related topics too.
CP764	The Production of Space	PhD in City and Regional Planning	The subject of this course is to examine and understand the social, economic, political space concepts and urban development factors, which have the intensive effects on the formation the (re) production of the built environment, as well as their interaction in time and space. It covers sustainability related topics too.
CP792	Seminar for Doctoral Candidates	PhD in City and Regional Planning	In this course, students submit a series of essays during the semester. At the end of the course, they are expected to finish a paper and make a presentation open to the public. Sustainability related issues are integrated to the essays.
CP802	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
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CP806	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
CP809	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
CP811	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.

CP812	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
CP814	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
CP815	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
CP816	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
CP817	Special Studies	PhD in City and Regional Planning	This is a reserach based graduate course of the Department of City and Regional Planning, in which sustainability issues are integrated. Graduate students study advanced topics under the guidance of their advisor.
DS528	Innovative Materials	Masters in Design Studies	This course covers issues related to innovative materials and sustainability related issues are covered.
ECON201	Economics of Innovation	General Culture Courses Department	Sustainability related issues, with economics and innovation focus are covered in this course.
ECON205	Principles of Economy	Depaartment of Chemical Engineering	Sustainability related issues, with an economic focus are covered.
ECON205	Principles of Economy	Bioengineering	Sustainability related issues, with an economic focus are covered.
EM503	Organization Theory and Management	Masters in Engineering Management	This course provides student with the basis upon which he or she will be able to build some knowledge and understanding of organizations and their management. It involves sustainability related topics.
EM506	Sytems Engineering and Operations Research	Masters in Engineering Management	This course will mainly focus on the engineering of systems and on systems analysis. It involves sustainability related topics.
EM507	Financial Analysis and Engineering Economics	Masters in Engineering Management	The purpose of the course is to explain the principles and techniques needed for making decisions about acquisition and retirement of capital goods. It involves sustainability related topics.
EM522	Supply Chain Management	Masters in Engineering Management	This course is designed to study the concepts in design and control of supply chains. It involves sustainability related topics.
EM541	Total Quality Management	Masters in Engineering Management	Theory and practice of total quality management are covered together with sustainability related topics.
EM562	Strategic Management	Masters in Engineering Management	This course aims to provide future leaders, managers and strategists with an understanding of strategic management that will enable them to function effectively in today's competitive economies. It involves sustainability related topics.
ENE500	Master Thesis	Masters in Energy Engineering	As a part of the Energy Engineering Graduate Programme, this course covers energy and sustainability related topics, such as use of renewable energy, energy efficiency and environmental effects of different types of applications.
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ENE501	Fundamentals of Energy Engineering	Masters in Energy Engineering	The content of the course includes Wind, solar, Geothermal, Biomass, Wave Energy, Energy Efficiency, networks/grids and energy policies.
ENE502	Advanced Engineering Thermodynamics	Masters in Energy Engineering	Energy related topics are covered (First law of thermodynamics, second law of thermodynamics, destruction of exergy, single-phase systems, exergy generalised, multiphase systems).
ENE510	Fundamentals of Wind Energy Systems	Masters in Energy Engineering	This course includes the history and near future of wind energy, the status of wind energy in Turkey and around the globe, basic information about sub-topics of wind energy. The content is supported with a site visit. Sustainability is a core issue of this course.
ENE520	Biomass Energy and Technologies	Masters in Energy Engineering	Following issues related to energy and sustainability are covered: Biomass energy and types of biomass, heat and power generation from biomass, utilization of organic municipal waste using biomass conversion technologies, etc.
ENE524	Catalysis for Sustainable Energy Conversion	Masters in Energy Engineering	This course sustainable energy related topics (renewable catalytic technologies, Catalytic production of transportation fuels, Utilization of biogas as a renewable carbon, etc.)
ENE540	Geothermal Energy and Environment	Masters in Energy Engineering	Geothermal energy, distribution of geothermal system in the world, utilization of geothermal energy, tectonic properties of geothermal system, conception model of geothermal system, hydrogeochemical properties of geothermal system, environmental concerns and environmental impact assessment.
ENE599	Research Seminar	Masters in Energy Engineering	As a part of the Energy Engineering Graduate Programme, this course covers energy and sustainability related topics, such as use of renewable energy, energy efficiency and environmental effects of different types of applications.
ENE801	Special Studies	Masters in Energy Engineering	As a part of the Energy Engineering Graduate Programme, this course covers energy and sustainability related topics, such as use of renewable energy, energy efficiency and environmental effects of different types of applications.

ENE802	Special Studies	Masters in Energy Engineering	As a part of the Energy Engineering Graduate Programme, this course covers energy and sustainability related topics, such as use of renewable energy, energy efficiency and environmental effects of different types of applications.
ENE803	Special Studies	Masters in Energy Engineering	As a part of the Energy Engineering Graduate Programme, this course covers energy and sustainability related topics, such as use of renewable energy, energy efficiency and environmental effects of different types of applications.
ENE805	Special Studies	Masters in Energy Engineering	As a part of the Energy Engineering Graduate Programme, this course covers energy and sustainability related topics, such as use of renewable energy, energy efficiency and environmental effects of different types of applications.
ENE806	Special Studies	Masters in Energy Engineering	As a part of the Energy Engineering Graduate Programme, this course covers energy and sustainability related topics, such as use of renewable energy, energy efficiency and environmental effects of different types of applications.
ENV101	Introduction to Environmental Engineering	Environmental Engineering	Sustainability related issues, with an economic focus are covered.
ENV201	Environmental Chemistry	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.
ENV203	Environmental Chemistry Lab	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.
ENV215	Environmental Microbiology	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.
ENV217	Fluid Mechanics	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.
ENV300	Summer Practice-I	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.
ENV311	Unit Operations and Processes of Water Treatment	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.
ENV315	Water Supply	Environmental Engineering	Sustainability related issues, with an economic and water focus are covered.
ENV317	Atmospheric Chemistry and Air Pollution	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.

ENV319	Fundamentals of Biological Processes	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards. Environmental sustainability is a core issue.
ENV321	Water Quality	Environmental Engineering	This course is one of the compulsory and fundamental courses of the Department of Environmental Engineering, whose aim is to protect health of human beings and the environment by assessing exposures and associated risks to determine mitigation needs, by developing better monitoring and sampling techniques, better treatment processes, and environmental standards.
ENV500	Master Thesis	Masters in Environmental Engineering	This is a research based graduate course of the Department of Environmental Engineering, in which sustainability issues are covered.
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ENV506	Environmental Exposure and Risk Assessment	Masters in Environmental Engineering	This course tackles sustainability related issues such as evaluation of toxicological data, human exposure assessment, carcinogenic risk, chronic-toxic risk, human health risk characterization, risk communication, risk Management and ecological risk assessment.
ENV510	Remediation of Contaminated Sites	Masters in Environmental Engineering	Various techniques that have been developed for the remediation of contaminated sites are taught in the course. Environmental sustainability is a core issue.
ENV515	Waste Resources Management	Masters in Environmental Engineering	Within the scope of this course, landfill and other waste disposal methods are discussed. Environmental sustainability is a core issue.
ENV515	Waste Resources Management	Masters in Environmental Engineering	Within the scope of this course, landfill and other waste disposal methods are discussed. Environmental sustainability is a core issue.
ENV516	Anaerobic Biotechnology	Masters in Environmental Engineering	Within the scope of this course, the basic concepts of anaerobic biotechnology for organic waste and wastewater are evaluated. Environmental sustainability is a core issue.
ENV598	Research Seminar	Masters in Environmental Engineering	This is a course in which each student has to give a seminar and sustainability issues are covered.
ENV600	PhD Thesis	PhD in Environmental Science and Engineering	This is a research based PhD level course leading to a PhD thesis of the Department of Environmental Engineering, in which sustainability issues are covered.
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ENV600	PhD Thesis	PhD in Environmental Science and Engineering	This is a research based PhD level course leading to a PhD thesis of the Department of Environmental Engineering, in which sustainability issues are covered.
ENV601	Basis of Environmental Technology	PhD in Environmental Science and Engineering	Environmental sustainability and innovation issues are covered.
ENV602	Advanced Environmental Chemistry	PhD in Environmental Science and Engineering	Chemical processes in environmental systems are tackled. Sustainability related issues are covered.
ENV698	Seminar for Doctoral Candidates	PhD in Environmental Science and Engineering	This course covers seminars given by students about their researches. Sustainability related issues are covered.
ENV801	Special Studies	Masters in Environmental Engineering	This is a research based graduate course of the Department of Environmental Engineering, in which sustainability issues are covered. Graduate students study advanced topics under the guidance of their advisor.
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ENV807	Special Studies	Masters in Environmental Engineering	This is a research based graduate course of the Department of Environmental Engineering, in which sustainability issues are covered. Graduate students study advanced topics under the guidance of their advisor.

ESE101	Introduction to Energy Systems Engineering	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE201	Thermodynamics I	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE300	Summer Practice I	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE301	Heat Transfer	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE311	Fluid Mechanics I	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE321	Mass and Energy Balances	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE331	Electromechanical Energy Conversion	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE400	Summer Practice II	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE401	Energy Systems Engineering Design I	Energy Systems Engineering	This is a compulsory and a fundamental course of the Department of Energy Systems Engineering, whose aim is to enhance energy literacy and deepen multi-disciplinary energy knowledge in order to contribute to the improvement of environmental decision making at all levels through better application of scientific and technological knowledge. Sustainability is a core issue.
ESE406	Introduction to Geothermal Energy	Energy Systems Engineering	Following sustainability related topics are tackled in the course: Introduction to geothermal energy, application areas of geothermal energy, electricity generation, direct use applications, space and district heating, space cooling, greenhouse heating, heat pumps, aquaculture, industrial applications along with environmental impacts of geothermal applications, geothermal laws and regulations. F
ESE410	Introduction to Wind Energy	Energy Systems Engineering	In this course, students will learn about all the layers of wind energy other than economy. Sustainability is a core issue.

ESE420	Introduction to Bioenergy	Energy Systems Engineering	Following sustainability related topics are tackled in the course: Biomass energy and types of biomass; heat and power generation from biomass; methods and technologies for biofuels production in solid, liquid and gaseous forms; utilization of organic municipal waste using biomass conversion technologies.
ESE440	Introduction to Computational Fluid Dynamics	Energy Systems Engineering	Energy related technical issues are covered in the course which enhance the students' understanding of sustainability.
ESE499	Cooperative Education Course	Energy Systems Engineering	This course is conducted both at the university and at a company, and sustainability related issues with theoretical and practical aspects are covered.
FE105	Introduction to Food Engineering	Food Engineering	This is a compulsory and an introductory course of the Department of Food Engineering, whose aim is to train researchers and engineers who are environmentally conscious, professional, and ethical. Sustainability is a core issue.
FE301	Heat Transfer	Food Engineering	This is a compulsory course -tackling heat transfer issues- of the Department of Food Engineering, whose aim is to train researchers and engineers who are environmentally conscious, professional, and ethical. Sustainability is a core issue.
FE305	Food Chemistry	Food Engineering	This is a compulsory course that deals with structure and properties of food components (water, carbohydrates, proteins, lipids, others), of the Department of Food Engineering, whose aim is to train researchers and engineers who are environmentally conscious, professional, and ethical. Sustainability related topics are covered.
FE323	Applied Nutrition in Food Science	Food Engineering	This course focuses on the clinical approaches to determine importance of the nutrients in human health. Sustainability related issues are integrated.
FE400	Summer Practice	Food Engineering	This is a course conducted as practical training in an organization in which food engineering is extensively practiced. Sustainability related issues are integrated.
FE401	Principles of Food Safety and Quality Assurance	Food Engineering	This course focuses on the principles of food safety and quality and sustainability related issues are integrated.
FE403	Food Process Design	Food Engineering	This course is formed of a series of lectures on introduction of concepts related to design of a food process. Sustainability related issues are integrated.
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FE407	Engineering Properties of Foods	Food Engineering	Engineering properties of foods, such as the measurement methods and the use of physical, mechanical, rheological, thermal, electromagnetic, surface and interface properties in the design of new applications and product development, are taught in the course. Sustainability related issues are integrated.
FE410	Introduction to Nutrigenomics and Nutrigenetics	Food Engineering	This course focuses on the interaction of diet and nutraceuticals with genes and health. Sustainability related issues are integrated.
FE411	Research/Problems in Nutrition	Food Engineering	This course focuses on understanding current nutrition problems, strategies, emerging issues and research in nutrition and global nutrition problems. Sustainability related issues are integrated.
FE414	Process Dynamics and Control	Food Engineering	This course focuses on food related technical issues, in which sustainability issues are integrated.
FE419	Introduction to R Programming	Food Engineering	This course focuses on the sample preparation methods for food analyses, in which sustainability issues are integrated.
FE420	Graduation Project	Food Engineering	This course is conducted as a project as a computer aided design or laboratory work based on theoretical or experimental study on Food Engineering. Sustainability related issues are integrated.

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FE420	Graduation Project	Food Engineering	This course is conducted as a project as a computer aided design or laboratory work based on theoretical or experimental study on Food Engineering. Sustainability related issues are integrated.
FE423	Food Bioprocess Kinetics and Engineering	Food Engineering	This course focuses on bioprocesses. Sustainability related issues are integrated.
FE500	Master Thesis	Masters in Food Engineering	This is a research based masters level course leading to a master thesis of the Department of Food Engineering, in which sustainability issues are covered.
FE500	Master Thesis	Masters in Food Engineering	This is a research based masters level course leading to a master thesis of the Department of Food Engineering, in which sustainability issues are covered.
FE503	Advanced Food Microbiology	Masters in Food Engineering	This course is about the application of basic microbiological concepts to biotechnology. Sustainability related issues are integrated.
FE504	Advanced Food Plant Sanitation	Masters in Food Engineering	This course focuses on the role of sanitation in food industry. Sustainability related issues are integrated.
FE509	Meat and Poultry Processing	Masters in Food Engineering	This course aims to acquaint the student with food safety issues as related to the meat/poultry industry. Sustainability related issues are integrated.
FE515	Food Additives, Contaminants and Toxicology	Masters in Food Engineering	This course focuses on food toxicology and toxins, their classification, effects and etc. Sustainability related issues are integrated.
FE526	Physical Properties of Food and Biological Materials	Masters in Food Engineering	Following issues are covered in this course: deformation, flow and textural properties of food materials; properties of powders and flow of particulate solids; instrumental methods for measuring physical properties of foods and food quality. Sustainability related issues are integrated.
FE532	Food Engineering Principles	Masters in Food Engineering	Certain technical issues related to food processing operations are covered in this course. Sustainability related issues are integrated.
FE533	Enzyme Characterization and Kinetics	Masters in Food Engineering	In this course enzyme related issues are covered. Sustainability related issues are integrated.
FE539	Molecular Methods for Food Safety Applications	Masters in Food Engineering	The course is designed to provide up-to-date information for detection, and characterization of common important foodborne pathogens, mycotoxigenic fungi, food contaminants, allergens and genetically modified organisms (GMOs) in the food safety concept. Sustainability related issues are integrated.
FE540	Foodborne Bacterial Pathogens	Masters in Food Engineering	The course is designed to recognize and describe various aspects of common important and emerging bacterial foodborne pathogens and their associations with various types of foods. Sustainability related issues are integrated.
FE547	Novel Food Processing Technologies	Masters in Food Engineering	This course covers thermal and non-thermal food processing methods. Sustainability related issues are integrated.

FE580	Special Topics in Food Engineering	Masters in Food Engineering	Topics such as are food science, food technology, food processing, biotechnology etc. are covered. Sustainability related issues are integrated.
FE598	Seminar	Masters in Food Engineering	In this course, a seminar must be given by each student on his research area Sustainability related issues are integrated.
FE600	PhD Thesis	PhD in Food Engineering	This is a research based PhD level course leading to a PhD thesis of the Department of Food Engineering, in which sustainability issues are covered.
FE600	PhD Thesis	PhD in Food Engineering	This is a research based PhD level course leading to a PhD thesis of the Department of Food Engineering, in which sustainability issues are covered.
FE600	PhD Thesis	PhD in Food Engineering	This is a research based PhD level course leading to a PhD thesis of the Department of Food Engineering, in which sustainability issues are covered.
FE804	Special Studies	Masters in Food Engineering	This is a research based PhD level course leading to a PhD thesis of the Department of Food Engineering, in which sustainability issues are covered.
FE812	Special Studies	Masters in Food Engineering	This is a research based PhD level course leading to a PhD thesis of the Department of Food Engineering, in which sustainability issues are covered.
HUM209	Multicultural Communication	General Culture Courses Department	This course covers social sustainability related topics.
HUM250	Social Responsibility	General Culture Courses Department	With the aim of contributing to the development of the students' democratic and participatory identity, the course is designed about bringing students together with the social groups of different characteristics outside the university campus and along with various "civic involvement" projects and their stages. Social sustainability related topics are integrated.
HUM250	Social Responsibility	General Culture Courses Department	With the aim of contributing to the development of the students' democratic and participatory identity, the course is designed about bringing students together with the social groups of different characteristics outside the university campus and along with various "civic involvement" projects and their stages. Social sustainability related topics are integrated.
IBT601	Fundamentals of Industrial Biotechnology	PhD in Industrial Biotechnology	In this course, basics of industrial biotechnology are covered and sustainability related issues are covered.
IBT645	Industrial Bioseparations	PhD in Industrial Biotechnology	In this course, basics of industrial biotechnology are covered and sustainability related issues are covered.
IBT655	Fungal Biotechnology	PhD in Industrial Biotechnology	In this course, basics of industrial biotechnology are covered and sustainability related issues are covered.
ID315	Human Factors in Design	Industrial Design	In this course the importance of the human factor in design processes is tackled. Social sustainability related issues are covered.
ID441	Design and Culture	Industrial Design	In this course cultural aspects of design processes are tackled. Social sustainability related issues are covered.
ID442	Sustainable Product Design	Industrial Design	This course covers issues related to sustainable product design. Sustainability is a core issue.
ID448	Product Innovation	Industrial Design	This course covers issues related to product innovation.
IWR500	Master Thesis	International Water Resources (Masters Programme)	This course is a research based one leading to a master thesis, in which sustainability is a core issue.
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IWR500	Master Thesis	International Water Resources (Masters Programme)	This course is a research based one leading to a master thesis, in which sustainability is a core issue.
IWR510	Advanced Hidrogeology	International Water Resources (Masters Programme)	Following topics are covered in this course: Groundwater movement. Groundwater resources. Well hydrology. Pump testing. Improvement of catchments area. Management and improvement of aquifers. Water-rock interaction and fossil groundwater mining. Sustainability is a core issue.
IWR515	Water Legislation	International Water Resources (Masters Programme)	Following topics are covered in this course: Importance and future application of law on water resources. Surface and groundwater law. International water resources law. Gaps in water law. Sustainability is a core issue. Sustainability is a core issue.
IWR522	GIS Applications in Water Resources Science	International Water Resources (Masters Programme)	Following topics are covered in this course: Introduction to geographical information systems. Spatial data. Map projections. Raster data. DEMs. Raster processing. Hydrology tools. Sustainability is a core issue.
IWR598	Research Seminar and Ethical Issues	International Water Resources (Masters Programme)	In this course, each student must give a seminar on her or his research area. Sustainability is a core issue.
IWR600	PhD Thesis	International Water Resources (Masters Programme)	This course is a research based one leading to a master thesis, in which sustainability is a core issue.
IWR600	PhD Thesis	International Water Resources (Masters Programme)	This course is a research based one leading to a master thesis, in which sustainability is a core issue.
IWR600	PhD Thesis	International Water Resources (Masters Programme)	This course is a research based one leading to a master thesis, in which sustainability is a core issue.
IWR600	PhD Thesis	International Water Resources (Masters Programme)	This course is a research based one leading to a master thesis, in which sustainability is a core issue.
MAN231	Patent, Trademark Intellectual Industrial Property Law	General Culture Courses Department	In this course, following topics are covered: Industrial property rights, patents, utility models, trademarks, industrial designs, geographical signs, the topography of integrated circuit. Sustainability related issues are integrated.
MAN232	Quality Management Systems	General Culture Courses Department	This is a course available for the entire university in which sustainability issues are included.
MAN232	Quality Management Systems	General Culture Courses Department	This is a course available for the entire university in which sustainability issues are included.
MAN235	Fundamentals of Creativity	General Culture Courses Department	This is a course available for the entire university in which sustainability issues are included.
MBG101	Biology I	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
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MBG101	Biology I	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG111	Biology Lab I	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.

MBG121	Biology I	Common Courses with the Dep. Of Biology	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG121	Biology I	Common Courses with the Dep. Of Biology	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG201	Cell Biology I	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG203	Genetics	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG211	Cell Biology Lab	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG213	Genetics Lab	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG301	Biochemistry I	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG303	Molecular Genetics of Prokaryotes	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG305	Applied Bioinformatics	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG311	Biochemistry Lab	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG321	Immunology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG324	Plant Molecular Biology and Genetics	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG325	Molecular Evolution	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG328	Digital Cell	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG403	Developmental Biology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG405	Current Techniques in Molecular Biology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG406	Genomics and Proteomics	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG407	Signal Transduction	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG421	Molecular Medicine	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG424	Biotechnology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG501	Microbial Genetics	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.

MBG507	Advanced Cell Biology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG513	Seminar in Molecular Biology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG515	Advanced Immunology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG518	Fluorescence Microscopy	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG525	Proteins and Enzymes	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG545	Molecular Biology of Cancer	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG556	Molecular Genetics of Plant Development	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG565	Advanced Virology	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
MBG568	Current Topics in Plant Molecular Genetics	Molecular Biology and Genetics	This course aims to contribute to learning outcome of applying sustainable development goals to problem solving and reserach in the life sciences.
ME323	Manufacturing Processes	Mechanical Engineering	In this course, following topics are covered: Casting Techniques, Metal Forming Processes, Joining Techniques, Welding Processes, Ceramic Processing, Powder Processing, Chip Removal Processes, Automation in Production. Sustainability related issues are integrated.
ME323	Manufacturing Processes	Mechanical Engineering	In this course, following topics are covered: Casting Techniques, Metal Forming Processes, Joining Techniques, Welding Processes, Ceramic Processing, Powder Processing, Chip Removal Processes, Automation in Production. Sustainability related issues are integrated.
MSE100	Introduction to Materials Science and Engineering	Materials Science and Engineering	In this course, issues about the importance and definition of materials science and engineering and the reasons for using different materials and the definition of these materials are covered. Sustainability related issues are integrated into the content.
MSE201	Materials Science I	Materials Science and Engineering	In this course, issues such as atomic bonding types, fundamentals of engineering materials: metals, ceramics/glasses, polymers and composites are covered. Sustainability related issues are integrated into the content.
MSE205	Materials Thermodynamics	Materials Science and Engineering	In this course, issues such as laws of thermodynamics; internal energy, heat, and work, heat capacity, enthalpy, and entropy are covered. Sustainability related issues are integrated into the content.
MSE211	Materials Science and Engineering	Materials Science and Engineering	In this course, issues such engineering materials such as metals, ceramics and glasses, polymers, and composites; crystalline structures, defects; elastic and plastic deformations of materials; basics of mechanical properties are covered. Sustainability related issues are integrated into the content.
MSE211	Materials Science and Engineering	Materials Science and Engineering	In this course, issues such as engineering materials such as metals, ceramics and glasses, polymers, and composites; crystalline structures, defects; elastic and plastic deformations of materials; basics of mechanical properties are covered. Sustainability related issues are integrated into the content.
MSE211	Materials Science and Engineering	Materials Science and Engineering	In this course, issues such as engineering materials such as metals, ceramics and glasses, polymers, and composites; crystalline structures, defects; elastic and plastic deformations of materials; basics of mechanical properties are covered. Sustainability related issues are integrated into the content.

MSE215	Materials Physics	Materials Science and Engineering	In this course, an introduction to the quantum physics of solids, among others, is given. Sustainability related issues are integrated into the content.
MSE300	Summer Practice I	Materials Science and Engineering	This course is conducted as an internship of at least 20 working days carried out in a plant that will involve the processing of materials in an integrated manner. Sustainability related issues are integrated into the practical training.
MSE305	Transport Phenomena	Materials Science and Engineering	In this course, a general overview of transport phenomena including various applications are given. Sustainability related issues are integrated into the content.
MSE307	Physical Metallurgy	Materials Science and Engineering	In this course, issues such as vacancy formation in crystalline materials. Nucleation and solidification mechanisms are covered. Sustainability related issues are integrated into the content.
MSE309	Mechanical Behavior of Materials	Materials Science and Engineering	In this course, issues such as micromechanics of deformation, strengthening mechanisms, solid solution strengthening, particle strengthening, grain size strengthening, fiber strengthening, work hardening, etc. are covered. Sustainability related issues are integrated into the content.
MSE313	Introduction to Solid State Physics	Materials Science and Engineering	In this course, issues such as engineering materials such as metals, ceramics and glasses, polymers, and composites; crystalline structures, defects; elastic and plastic deformations of materials; basics of mechanical properties are covered. Sustainability related issues are integrated into the content.
MSE315	Mineral Processing and Extractive Metallurgy	Materials Science and Engineering	In this course, issues such as basics of quantum mechanics, crystal structures, bonding in solids, energy bands of a solid, and semiconductors are covered. Sustainability related issues are integrated into the content.
MSE400	Summer Practice II	Materials Science and Engineering	This course is conducted as an internship of at least 21 working days carried out in a plant that will involve the processing of materials in an integrated manner. Sustainability related issues are integrated into the practical training.
MSE451	Materials Design	Materials Science and Engineering	In this course, issues such as the design process, materials and process selection in design, case studies in materials and process selection and economic decision making in design are covered. Sustainability related issues are integrated into the content.
MSE479	Ceramic and Glass Materials	Materials Science and Engineering	In this course, issues such as methods of ceramic production, natural and synthetic raw materials, shaping methods, drying and firing of ceramic articles are covered. Sustainability related issues are integrated into the content.
MSE483	Materials Degradation	Materials Science and Engineering	In this course, issues such as thermodynamics of corrosion, corrosion testing and monitoring, corrosion types, corrosion prevention, and degradation of ceramics and polymers are covered. Sustainability related issues are integrated into the content.
MSE499	Cooperative Education Course	Materials Science and Engineering	In this course, students get training both at the university and at a company on different days of the week. Practical and theoretical aspects of sustainability are integrated into the content.
MSE500	Master Thesis	Masters in Materials Science and Engineering	This is a research based course leading to a masters degree in Materials Engineering. Sustainability related issues are integrated.
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MSE500	Master Thesis	Masters in Materials Science and Engineering	This is a research based course leading to a masters degree in Materials Engineering. Sustainability related issues are integrated.
MSE501	Fundamentals of Materials Science and Engineering	Masters in Materials Science and Engineering	In this course themes related to the classification of materials are covered. Sustainability related issues are integrated into the content.
MSE517	Spectroscopic Methods of Materials Characterization	Masters in Materials Science and Engineering	In this course, issues such as atomic bonding types, fundamentals of engineering materials: metals, ceramics/glasses, polymers and composites are covered. Sustainability related issues are integrated into the content.
MSE518	Electroceramic Materials	Masters in Materials Science and Engineering	In this course, issues such as atomic bonding types, fundamentals of engineering materials: metals, ceramics/glasses, polymers and composites are covered. Sustainability related issues are integrated into the content.
MSE529	Test Design in Materials Science and Engineering	Masters in Materials Science and Engineering	In this course, issues such as atomic bonding types, fundamentals of engineering materials: metals, ceramics/glasses, polymers and composites are covered. Sustainability related issues are integrated into the content.
MSE598	Research Seminar	Masters in Materials Science and Engineering	This is a course in which each student has to give a seminar and sustainability issues are covered.
MSE600	PhD Thesis	PhD in Materials Science and Engineering	This is a research based course leading to a PhD degree in Materials Engineering. Sustainability related issues are integrated.
MSE600	PhD Thesis	PhD in Materials Science and Engineering	This is a research based course leading to a PhD degree in Materials Engineering. Sustainability related issues are integrated.
MSE600	PhD Thesis	PhD in Materials Science and Engineering	This is a research based course leading to a PhD degree in Materials Engineering. Sustainability related issues are integrated.
MSE600	PhD Thesis	PhD in Materials Science and Engineering	This is a research based course leading to a PhD degree in Materials Engineering. Sustainability related issues are integrated.
MSE600	PhD Thesis	PhD in Materials Science and Engineering	This is a research based course leading to a PhD degree in Materials Engineering. Sustainability related issues are integrated.



MSE801	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE802	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE804	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE805	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE806	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE807	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE808	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE810	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
MSE811	Special Studies	Masters in Materials Science and Engineering	This is a research based PhD course in Materials Engineering. Sustainability related issues are integrated.
PHOT331	Molecular Photonics I	Photonics	In this course, topics such as the states of matter, physical state, force, energy, pressure, temperature, etc. are covered. Sustainability related issues are integrated to the content.
PHOT400	Summer Internship I	Photonics	This course requires students to continue their internship in a workplace for 6 weeks (30 working days) in order to gain work experience. Sustainability related issues are integrated to the workplace training.
PHOT500	Master Thesis	Masters in Photonics	This is a research based course leading to a masters degree in Photonics. Sustainability related issues are integrated.
PHOT511	Photophysics	Masters in Photonics	This is a course which tackles issues related to photophysics into which sustainability related issues are integrated.
PHOT600	PhD Thesis	PhD in Photonics	This is a research based course leading to a PhD degree in Photonics. Sustainability related issues are integrated.
PHOT600	PhD Thesis	PhD in Photonics	This is a research based course leading to a PhD degree in Photonics. Sustainability related issues are integrated.
PHOT600	PhD Thesis	PhD in Photonics	This is a research based course leading to a PhD degree in Photonics. Sustainability related issues are integrated.
PHOT801	Special Studies	PhD in Photonics	This is a research based PhD level course in which sustainability related issues are integrated.
RES501	Design in Architectural Restoration I	Masters in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content
RES511	Methods of Conservation and Development of Historical Sites	Masters in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content

RES521	Theory and History of Architectural Restoration	Masters in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content
RES532	Structural Assessment and Intervention Techniques for Historic Buildings	Masters in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content
RES551	Deterioration and Conservation of Historical Building Materials	Masters in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content
RES561	Management of Cultural Heritage Sites	PhD in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content
RES570	Special Topics in Architectural Restoration	PhD in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content
RES590	Graduation Project	Masters in Conservation and Restoration of Cultural Heritage	The aim of the course is to empower the students in the area of conservation of historic buildings and areas through theoretical and practical studies focusing on architectural and cultural history, structural and material conservation, and restoration techniques. Sustainability related issues are integrated to the content
TDIM501	Management of Technology and Innovation	Masters in Technology, Design and Innovation Management	In this course, fundamental issues and concepts in the management of engineering, technology and innovation as well as technology transitions from technical, economic and social perspectives are covered. Sustainability related issues are integrated.
TDIM511	Organization of R&D	Masters in Technology, Design and Innovation Management	In this course, organizational aspects of Research and Development (R&D); issues of teamwork, leadership and creativity and project management challenges resulting from uncertainties in R&D, etc. are covered. Sustainability related issues are integrated into the content of these topics.
TDIM517	Product Management	Masters in Technology, Design and Innovation Management	In this course, a wide range of topics (customer characteristics, need analysis, competitor analysis, market potential and forecasting, planning, product strategy, financial analysis, products design, R&D plan, evaluation, development, process & program management, risk analysis, pricing, promotion, channel management, service quality) are covered. Sustainability related issues are integrated into the content of these topics.
TDIM518	Project Management	Masters in Technology, Design and Innovation Management	In this course, a wide range of topics (managing uncertainty and innovation project management, strategy alignment and program management, feasibility analysis, roadmaps and tools, estimating and planning time and cost, monitoring, stakeholders, resource allocation, organization and human capital, quality and risks, suppliers, communication, information systems, project closing) are covered. Sustainability related issues are integrated into the content of these topics.
TDIM526	Semiotics in Product Design	Masters in Technology, Design and Innovation Management	In this course, a wide range of topics (the sign, semiotic analysis of product design, first and second order of signification, metaphor, semiotic of figurativity and rhetoric, using sign systems in design) are covered. Students' understanding of sustainability in product design is aimed to be enhanced.
UD500	Master Thesis	Masters in Urban Design	This is a research based course leading to a masters degree in which social and environmental sustainability issues are integrated.
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UD501	Urban Design Project I	Masters in Urban Design	This is a reserach based course leading to a masters degree in whichsocial and environmental sustainability issues are integrated.
UD514	Urban Design Process and Theory	Masters in Urban Design	This is a reserach based course leading to a masters degree in whichsocial and environmental sustainability issues are integrated.
UD516	Outer Space Design Techniques	Masters in Urban Design	This is a reserach based course leading to a masters degree in whichsocial and environmental sustainability issues are integrated.