

Template for Evidence(s) UI GreenMetric Questionnaire

University : Gebze Technical University
 Country : Turkiye
 Web Address : www.gtu.edu.tr

[6] Education and Research (ED)

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

Full List of Courses/Subjects Related to Sustainability (Gebze Technical University, Turkiye)			
Department	Course Cod	Course Title	Sustainability Course Content
Architecture	ARCH 102	Computer Applications In Ar	The content of course include subject related to sustainability goals. The
Architecture	ARCH 136	Topological Studies and Con	The content of course include subject related to sustainability goals. In t
Architecture	ARCH 142	Building Science I	The content of course include subject related to sustainability goals. Thi
Architecture	ARCH 144	Architecture and Sustainabil	To donate with ecological, sustainable design principles, which will redu
Architecture	ARCH 186	Eco-technological Approach	Instead of old nostalgic or pseudobucolic ecology (which freezes landsca
Architecture	ARCH 221	Architectural Design III	The content of course include subject related to sustainability goals. The
Architecture	ARCH 222	Architectural Design IV	The content of course include subject related to sustainability goals. The
Architecture	ARCH 226	Photograph In Architecture	The content of course include subject related to sustainability goals. Thi
Architecture	ARCH 242	Structural Systems And Tec	The content of course include subject related to sustainability goals. Thi
Architecture	ARCH 243	Material Tecnologies In Arch	The content of course include subject related to sustainability goals. Thi
Architecture	ARCH 244	Environmental Control Syste	The content of course include subject related to sustainability goals. Thi
Architecture	ARCH 261	Structural Analysis	The content of course include subject related to sustainability goals. Thi
Architecture	ARCH 262	Structure Soil Relation	The content of course include subject related to sustainability goals. Thi
Architecture	ARCH 282	History And Theory Of Archi	The content of course include subject related to sustainability goals. The
Architecture	ARCH 321	Architectural Design V	The content of course include subject related to sustainability goals. The
Architecture	ARCH 322	Architectural Design VI	The content of course include subject related to sustainability goals. The
Courses Related to Sustainability Offered			
Department	Course Cod	Course Title	Sustainability Course Content
Architecture	ARCH 331	Urban Planing Theory	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 332	Urban Design	To develop designing abilities for sustainable, contemporary and liveab
Architecture	ARCH 336	Landscape Design	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 341	Structural Systems And Tec	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 356	Introduction To Bio-Digital A	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 366	Measurment Techniques	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 386	Architectural Competitions	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 416	High-rise Buildings	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 421	Architectural Design VII	Within the scope of the course, which is designed in the context of "bo
Architecture	ARCH 426	Emergency Safety In Buildin	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 441	Construction And Detail Des	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 442	Construction Management /	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 446	Garden Technologies In Buil	The content of course include subject related to sustainability goals. Th
Architecture	ARCH 466	Architectural Photogromme	The course content includes topics related to sustainability goals. These
Architecture	ARCH 471	Analysis Of Historical Buildir	The course content includes topics related to sustainability goals. This g
Architecture	ARCH 472	Conservation Studio	The course content includes topics related to sustainability goals. This g
Courses Related to Sustainability Offered			

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1	Department	Course Cod	Course Title	Sustainability Course Content				
50	Architecture	ARCH 534	Architecture in the Anthro	The content of course include subject related to sustainability goals. Th				
51	Architecture	ARCH 541	Building And Human Health	The course content includes topics related to sustainability goals. One c				
52	Architecture	ARCH 542	Ecological Building Material	The course content includes topics related to sustainability goals. One c				
53	Architecture	ARCH 544	Energy-Efficient Structural D	The course content includes topics related to sustainability goals. One c				
54	Architecture	ARCH 545	Waste Management In Buik	The course content includes topics related to sustainability goals. One c				
55	Architecture	ARCH 561	Building Quality	The content of course include subject related to sustainability goals. Thi				
56	Architecture	ARCH 562	Analysis Of Construction De	The course content includes topics related to sustainability goals. This a				
57	Architecture	ARCH 564	House Production And Its Te	The content of course include subject related to sustainability goals. Th				
58	Architecture	ARCH 565	Potentials of Reuse and Rec	The aim of the course is to inform students and to make students consc				
59	Architecture	ARCH 566	Earthquake Resistant Desig	The course content includes topics related to sustainability goals. This a				
60	Architecture	ARCH 568	Life Cycle Environmental Per	The course content includes topics related to sustainability goals. One c				
61	Architecture	ARCH 570	Restoration Studio	The course content includes topics related to sustainability goals. This g				
62	Architecture	ARCH 571	Traditional Building Types a	The content of course include subject related to sustainability goals. Thi				
63	Architecture	ARCH 572	Restoration And Conservati	The content of course include subject related to sustainability goals. Thi				
64	Architecture	ARCH 578	Preservation Project In Hisc	The course content includes topics related to sustainability goals. One c				
65	Architecture	ARCH 581	Late Ottoman Architecture	The course content includes topics related to sustainability goals. This g				
1	Department	Course Cod	Course Title	Sustainability Course Content				
98	City and Regional Planning	CRP 276	Planning in Rural Settlemen	The content of course include subject related to sustainability goals. Thi				
99	City and Regional Planning	CRP 286	Urban Project Management	The aim of this course is to examine the urban project management cyc				
100	City and Regional Planning	CRP 301	Project V	The course content includes topics related to sustainability goals. This a				
101	City and Regional Planning	CRP 302	Project VI	The course content includes topics related to sustainability goals. This a				
102	City and Regional Planning	CRP 312	Planning Theory	The content of course include subject related to sustainability goals. Thi				
103	City and Regional Planning	CRP 313	Urban Conservation and Re	The content of course include subject related to sustainability goals. Thi				
104	City and Regional Planning	CRP 314	City and Environment	The content of course include subject related to sustainability goals. Thi				
105	City and Regional Planning	CRP 326	Migration and the City	To look into the relationship between socio-spatial order of cities and th				
106	City and Regional Planning	CRP 366	Urban Planning and Urbaniz	The content of course include subject related to sustainability goals. Thi				
107	City and Regional Planning	CRP 401	Project VII	The course content includes topics related to sustainability goals. This a				
108	City and Regional Planning	CRP 402	Project VIII	The course content includes topics related to sustainability goals. This a				
109	City and Regional Planning	CRP 426	Tourism Areas Planning	The content of course include subject related to sustainability goals. Thi				
110	City and Regional Planning	CRP 436	Urban Ecology and Planning	The content of course include subject related to sustainability goals. One				
111	City and Regional Planning	CRP 446	Public Space and City	The content of course include subject related to sustainability goals. Thi				
112	City and Regional Planning	CRP 466	Urban Landscape Design Pri	The content of course include subject related to sustainability goals. Thi				
113	City and Regional Planning	CRP 511	Planning Studio I	The course content includes topics related to sustainability goals. This a				

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1	Department	Course Cod	Course Title	Sustainability Course Content
114	City and Regional Planning	CRP 512	Planning Studio II	The course content includes topics related to sustainability goals. This ai
115	City and Regional Planning	CRP 521	Urban Morphology	To study requirements on the urban design with the analysis of urban p
116	City and Regional Planning	CRP 524	Transportation And Environi	The course content includes topics related to sustainability goals. This g
117	City and Regional Planning	CRP 526	Sustainable Settlements	This course aims to provide information in order to planning sustainable
118	City and Regional Planning	CRP 542	Pedestrian Places	The course content includes topics related to sustainability goals. This g
119	City and Regional Planning	CRP 543	Resilience in Urban Planning	The content of course include subject related to sustainability goals. This
120	City and Regional Planning	CRP 544	Urban Policy Design	The aim of this course is; - basic concepts of economic sociology, - challe
121	Economics	ECON 102	Introduction to Economics II	The content of course include subject related to sustainability goals. This
122	Economics	ECON 312	Health Economics	This course aims to provide a better understanding of basic issues threa
123	Economics	ECON 321	Growth Theory	The content of course include subject related to sustainability goals. This
124	Economics	ECON 322	Development Economics	The content of course include subject related to sustainability goals.Con
125	Economics	ECON 412	Economics of Innovation	This course aims to provide a better understanding of basic issues threa
126	Economics	ECON 422	Global Economy	The content of course include subject related to sustainability goals. This
127	Economics	ECON 461	Environmental Economics	To introduce theoretical and practical issues in environmental economic
128	Economics	ECON 462	Energy Economics	This course aims to provide students with an overview of energy market
129	Economics	ECON 464	Sustainability and Governan	This course aims to provide a better understanding of basic issues threa
1	Department	Course Cod	Course Title	Sustainability Course Content
130	Economics	ECON 513	Growth Theory	The content of course include subject related to sustainability goals.
131	Economics	ECON 514	Development Economics	The objective of the course is to introduce students to an in-depth st
132	Economics	ECON 523	World Economy	This course aims to provide a better understanding of basic issues th
133	Economics	ECON 560	Social Policy	The content of course include subject related to sustainability goals.
134	Management	BUS 308	Environmental Management	The content of course include subject related to sustainability goals.
135	Management	BUS 417	Corporate Social Responsibility	Students will explore the challenges inherent in creating and leading
136	Management	BUS 421	Corporate Sustainability	The content of course include subject related to sustainability goals.
137	Management	BUS 513	Entrepreneurship And Small Busines	The content of course include subject related to sustainability goals.
138	Management	BUS 517	R&D and Innovation Management	The aim of the course is to understand why R & D and innovation are
139	Management	BUS 529	Organizational Culture and Leadersh	The content of course include subject related to sustainability goals.
140	Management	BUS 639	Corporate Culture And Leadership	The content of course include subject related to sustainability goals.
141	Management	BUS 651	Marketing Thought	The content of course include subject related to sustainability goals.
142	Bioengineering	BENG 411	Bioengineering Design	The content of course include subject related to sustainability goals.
143	Civil Engineering	CE 232	Construction Materials	The content of course include subject related to sustainability goals.
144	Civil Engineering	CE 301	Introduction to Civil Engineering Des	The content of course include subject related to sustainability goals.
145	Civil Engineering	CE 332	Durability of Concrete	The content of course include subject related to sustainability goals.

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1	Department	Course Cod	Course Title	Sustainability Course Content
146	Civil Engineering	CE 441	Construction Management	The content of course include subject related to sustainability goals. T
147	Computer Engineering	CSE 425	Introduction to Operations Research	The course content includes topics related to sustainability goals. This
148	Computer Engineering	CSE 470	Cryptography and Computer Security	The course content includes topics related to sustainability goals. This
149	Computer Engineering	CSE 483	Fuzzy Logic And Modelling	The course content includes topics related to sustainability goals. This
150	Computer Engineering	CSE 485	Introduction To Robotics	The course content includes topics related to sustainability goals. This
151	Electronics Engineerin	ELEC 101	Introduction to Electronics Engineeri	The course content includes topics related to sustainability goals. This
152	Electronics Engineerin	ELEC 426	Introduction to Electric Power Syster	The course content includes topics related to sustainability goals. This
153	Electronics Engineerin	ELEC 433	Numerical Computation Software	The course content includes topics related to sustainability goals. This
154	Electronics Engineerin	ELEC 441	Microwave Techniques And Devices	The course content includes topics related to sustainability goals. This
155	Electronics Engineerin	ELEC 444	Antenna Theory	The course content includes topics related to sustainability goals. This
156	Electronics Engineerin	ELEC 454	Simulation of Electronic Circuits	The course content includes topics related to sustainability goals. This
157	Electronics Engineerin	ELEC 464	Mobile Communications	The course content includes topics related to sustainability goals. This
158	Electronics Engineerin	ELEC 466	Satellite Communications	The course content includes topics related to sustainability goals. This
159	Environmental Engine	ENVE 101	Introduction to Environmental Engin	To review basic environmental problems, including causes and effects
160	Environmental Engine	ENVE 201	Environmental Chemistry I	To teach basic concepts of environmental chemistry. To provide an ab
161	Environmental Engine	ENVE 202	Environmental Chemistry II	To teach basic concepts of environmental chemistry and organic chen

1	Department	Course Cod	Course Title	Sustainability Course Content
178	Environmental Engine	ENVE 311	Understanding Climate Change and	Understanding the climate change on a scientific basis, determining th
179	Environmental Engine	ENVE 313	Principles of Cleaner Production	It is aimed to gain the necessary information and apply basic concepts
180	Environmental Engine	ENVE 314	Environmental Impact Assessment	In the scope of this course, the importance of Environmental Impact A
181	Environmental Engine	ENVE 315	Energy and Environment	To teach the basic principles of energy and environment relation, ener
182	Environmental Engine	ENVE 316	Marine Pollution	The objective of the course is for students to understand physical, che
183	Environmental Engine	ENVE 318	Water Treatment Plant Design	To give the necessary design criteria and principles for the treatment o
184	Environmental Engine	ENVE 319	Agricultural Waste Valuation and M	The purpose of the course to teach the relationship between agricultu
185	Environmental Engine	ENVE 320	Energy Storage Technologies and Ap	Objectives of the lecture, 1. Definition and application of sustainable e
186	Environmental Engine	ENVE 401	Environmental Design Project	The aim of the course is to prepare and present detailed engineering d
187	Environmental Engine	ENVE 402	Soil & Groundwater Pollution	This course aim to teach fundamentals of water flow and develop flow
188	Environmental Engine	ENVE 403	Wastewater Treatment Plant Design	The aim of this course is to provide the knowledge about the design cr
189	Environmental Engine	ENVE 405	Environmental Modelling	The main objectives of this course are to design systems to solve defir
190	Environmental Engine	ENVE 406	Nature-Based Solutions to Design Ci	The goal of this course is to become familiar with nature based solutio
191	Environmental Engine	ENVE 407	Sustainability Concepts in Environm	This course aims to introduce sustainability concepts. It also aims to p
192	Environmental Engine	ENVE 412	Environmental Risk Assessment	This course includes the major elements of risk assessment and provid
193	Environmental Engine	ENVE 418	Membrane Processes	The content of course include subject related to sustainability goals.Tr

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1	Department	Course Cod	Course Title	Sustainability Course Content
194	Environmental Engine	ENVE 419	Water Reclamation, Recovery and R	The aim of this course is to have knowledge about water usage, resou
195	Environmental Engine	ENVE 421	Site Remediation	The aim of this course is to provide knowledge about characterization
196	Environmental Engine	ENVE 427	Environmental Nanotechnology	This course introduces the basic science and engineering concepts of r
197	Environmental Engine	ENVE 430	Environmental Law and Managemer	The aim of this course is to provide knowledge about the fundamenta
198	Environmental Engine	ENVE 491	Graduation Project I	The content of course include subject related to sustainability goals.Th
199	Environmental Engine	ENVE 492	Graduation Project II	The content of course include subject related to sustainability goals.Th
200	Environmental Engine	ENVE 502	Principles Of Environmental Enginee	To discuss basic concepts such as environmental pollution, sources, p
201	Environmental Engine	ENVE 503	Principles Of Environmental Enginee	To discuss basic processes in Environmental Engineering and to help t
202	Environmental Engine	ENVE 514	Process Fundamentals Of Environme	The content of course include subject related to sustainability goals.Th
203	Environmental Engine	ENVE 516	Process Chemistry for Treatment of '	Fundamentals and applications of process chemistry for water and wa
204	Environmental Engine	ENVE 517	Environmental Biotechnology	Developing the ability of comprehending and adjusting of the knowled
205	Environmental Engine	ENVE 524	Groundwater Pollution	The course aimed examination of specific hydrological problems on th
206	Environmental Engine	ENVE 529	Wastewater Treatment Technologie	To give basic information required in the design of wastewater treatm
207	Environmental Engine	ENVE 532	Mine Waste And Management	Discussing the environmental effects of mining sector in the world an
208	Environmental Engine	ENVE 533	Soil and Groundwater Remediation	The purpose of this class is to provide students with technical and scie
209	Environmental Engine	ENVE 535	Waste Minimization And Recycling	Explain fundamental concepts of waste minimization, techniques and

1	Department	Course Cod	Course Title	Sustainability Course Content
210	Environmental Engine	ENVE 537	Water Reuse Technologies and Appli	The aims are; to understand the role of water reuse for sustainable w
211	Environmental Engine	ENVE 547	Air Pollution Meteorology and Atmo	To give a general background on atmospheric meteorology, to give a g
212	Environmental Engine	ENVE 548	Air Pollution Sampling and Analysis	To introduce the principles of monitoring of air pollutants and their ar
213	Environmental Engine	ENVE 549	Exergy and Environment	The aim of this course is to assessment of resource utilization, produc
214	Environmental Engine	ENVE 552	Industrial Ecology and the Circular Ec	The course aims to introduce the concept of circular economy, its use
215	Environmental Engine	ENVE 611	Air Quality Management	Evaluation of Air Quality Management. Sources of air pollution impact
216	Environmental Engine	ENVE 615	Kinetics Of Wastewater Treatment	Provide basic information on wastewater treatment processes in envi
217	Environmental Engine	ENVE 616	Disinfection and Disinfection By-Prox	The aim of this lesson is to be taught applicable disinfection methods
218	Environmental Engine	ENVE 617	Environmental Toxicology	Aim of this course is to study the environmentally important pollutant
219	Environmental Engine	ENVE 618	Advanced Wastewater Treatment: N	To guide students to improve their abilities of advanced treatment te
220	Environmental Engine	ENVE 619	Treatment Methods by Ionizing Radi	To teach fundamentals of ionizing radiation and its using for aim of re
221	Environmental Engine	ENVE 621	Water Quality Management	To teach the management of water resources, the processes in water
222	Environmental Engine	ENVE 623	Physical And Chemical Processes Of	To give students necessary knowledge about engineering principles an
223	Environmental Engine	ENVE 625	Biomass and Waste Technologies	The aim of this course module is to provide students with a systemati
224	Environmental Engine	ENVE 626	Eutrophication In Receiving Environn	To give students necessary knowledge about engineering principles an
225	Environmental Engine	ENVE 627	Geographical Information Systems a	Geographical Information System (GIS) is an information system in wh

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1	Department	Course Cod	Course Title	Sustainability Course Content
242	Mechanical Engineerir	ME 412	Machining	The course content includes subjects related to sustainability goals. Th
243	Mechanical Engineerir	ME 414	Polymer Materials and Polymer Proc	The course content includes subjects related to sustainability goals. Th
244	Mechanical Engineerir	ME 447	Heating, Ventilating and Air Conditio	The course content includes subjects related to sustainability goals. Th
245	Mechanical Engineerir	ME 636	Sustainable Machining	To examine in detail the methods used in sustainable machining.
246	Non-technical Elective	ENG266	Environmental Literacy	This course aims to use of natural resources, energy, waste, environm
247	Non-technical Elective	ENG311	Global Warming and Climate Change	This course aims to introduce the concepts of global warming and clim
248	Non-technical Elective	ENG450	Health, Safety and Environment	To give the students the introductory knowledge and capabilities on: s
249	Chemistry	CHEM 427	Environmental Chemistry	Grasp the information about the Environmental Chemistry concepts a
250	Chemistry	CHEM 428	Green Chemistry	The content of course include subject related to sustainability goals. T
251	Chemistry	CHEM 614	Clean Chemical Synthesis	The course content includes topics related to sustainability goals. The
252	Chemistry	CHEM 670	Industrial Biocatalyst And Biotransfo	The course content includes topics related to sustainability goals. The
253	Molecular Biology and	MBG 272	Microbiology	The content of course include subject related to sustainability goals. T
254	Molecular Biology and	MBG 274	Microbiology Laboratory	The objective of this course is to learn basic topics of microbiology, su
255	Molecular Biology and	MBG 307	Biochemistry Laboratory	Teach how to purify proteins by chromatographic methods; the chara
256	Molecular Biology and	MBG 347	Introduction To Biotechnology	Give knowledge about scope, history of biotechnology and biotechnol
257	Molecular Biology and	MBG 348	Molecular Biotechnology	The aim of the course is to teach the students the basic principles and
1	Department	Course Cod	Course Title	Sustainability Course Content
258	Molecular Biology and	MBG 410	Bacterial Ecology	Students are introduced to the following topics: the importance of bac
259	Molecular Biology and	MBG 415	Molecular Plant Nutrition	This course aims to give information to students about mineral eleme
260	Molecular Biology and	MBG 423	Molecular Mechanisms of Epigenetic	Epigenetics course will provide a rigorous foundation in the area of ep
261	Molecular Biology and	MBG 425	Clinical Genetics	This course aims to illuminate the significant role of clinical genetics w
262	Molecular Biology and	MBG 430	Introduction to Biostatistics	Introduction to Biostatistics course has two main goals: (a) provide th
263	Molecular Biology and	MBG 432	Molecular Immunology	To lead students to gain below outcomes; will have information about
264	Molecular Biology and	MBG 438	Immunopathology	Students attending this course will: Review effector mechanisms of ce
265	Molecular Biology and	MBG 439	Neurobiology	The aim of the course is to give students basic knowledge on the struc
266	Molecular Biology and	MBG 441	Plant Biotechnology	Give fundamental concept of plant biotechnology and to inform the p
267	Molecular Biology and	MBG 443	Plant Metabolic Engineering	Grasping types, biosynthesis and regulation of plant secondary metab
268	Molecular Biology and	MBG460	Plant Molecular Genetics	Aims of this course is: to introduce students the plant genomic organi
269	Molecular Biology and	MBG 463	Molecular Plant Breeding	Introducing appropriate strategies and techniques to obtain plants tha
270	Molecular Biology and	MBG 512	Biosafety And Bioethics	Introducing appropriate strategies and techniques to obtain plants tha
271	Molecular Biology and	MBG 515	Bacterial Genetics	The objective of the course is to give information on Bacteria genes. M
272	Molecular Biology and	MBG 523	Advanced Molecular Plant Nutrition	This course aims to give information to students about mineral eleme
273	Molecular Biology and	MBG 572	Bacterial Ecology	Give students information on identification, classification, chemical ch

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1	Department	Course Cod	Course Title	Sustainability Course Content
274	Molecular Biology and	MBG 575	Molecular Marine Microbiology	Teach students molecular marine microbiology, barophilic, propylic, si
275	Molecular Biology and	MBG 645	Plant Biotechnology	The course content includes topics related to sustainability goals. The
276	Molecular Biology and	MBG 665	Molecular Plant Breeding	Teaching basic procedures and principle of the Classic and Modern Pla
277	Molecular Biology and	MBG 670	Bioremediation	The course content includes topics related to sustainability goals. This
278	Molecular Biology and	MBG 673	Industrial Microbiology	The goal of this course is to teach the history of industrial microbiolog
279	Molecular Biology and	MBG 674	Enviromental Microbiology	The goal of this course is to teach,knowledge about microorganisms o
280	Molecular Biology and	MBG 676	Food Microbiology And Biotechnolø	The goal of this course is to teach the basic knowledge about the fund
281	Molecular Biology and	MBG 677	Microbial Deterioration	To teach basic information about biodegradation, substances subject
282	Biotechnology	BTEC 521	Entrepreneurship in Biotechnology	The content of course include subject related to sustainability goals. T
283	Biotechnology	BTEC 542	Pharmaceutical Biotechnology and D	The aims of this course are to introduce students to pharmaceutical re
284	Biotechnology	BTEC 553	Gene and Stem Cell Therapies in Me	The content of course include subject related to sustainability goals. T
285	Biotechnology	BTEC 565	Microorganisms in Industrial Biotecr	The content of course include subject related to sustainability goals. T
286	Biotechnology	BTEC 571	Seed Biology, Quality and Technolog	The content of course include subject related to sustainability goals. T
287	Biotechnology	BTEC 573	Soilless Agriculture Technologies	The content of course include subject related to sustainability goals. T
288	Biotechnology	BTEC 574	Advanced Plant Nutrition: Mineral ar	The content of course include subject related to sustainability goals. T
289	Biotechnology	BTEC 593	Research and Publication Ethics	The content of course include subject related to sustainability goals. T

1	Department	Course Cod	Course Title	Sustainability Course Content
290	Biotechnology	BTEC 602	Agricultural Biotechnology and Globi	The content of course include subject related to sustainability goals. T
291	Biotechnology	BTEC 622	Marketing in Bioteknology	The content of course include subject related to sustainability goals. T
292	Biotechnology	BTEC 623	Technology Transfer and Commercia	The aim of the course is to raise awareness about the necessary equip
293	Biotechnology	BTEC 653	Personalized Medicine	The content of course include subject related to sustainability goals. T
294	Biotechnology	BTEC 662	Modern Applications of Food Biotecl	To gain knowledge about the use of living organisms such as microorg
295	Biotechnology	BTEC 671	Plant Abiyotic Stress Physiology and	The content of course include subject related to sustainability goals. T
296	Biotechnology	BTEC 672	Biofortification and Human Healt:Ag	The content of course include subject related to sustainability goals. T
297	Biotechnology	BTEC 673	Agrochemicals,Environment and Hu	The content of course include subject related to sustainability goals. T
298	Biotechnology	BTEC 676	Beneficial Soil Microorganisms and I	The content of course include subject related to sustainability goals. T
299	Biotechnology	BTEC 677	Soilless and Vertical Farming Techno	The content of course include subject related to sustainability goals. T
300	Earth Sciences	EMS 620	Mining Geology Technical Applicatio	The course content includes topics related to sustainability goals. This

1	Department	Course Cod	Course Title	Sustainability Course Content
301	Nanoscience and Nan	NANO 511	Fundamentals of Nanoscience and N	The aim of this course is to introduce the basic concepts of nanoscier
302	Nanoscience and Nan	NANO 515	Nanotechnology for Energy Applicati	This course will describe sustainable energy production, efficient ene
303	Nanoscience and Nan	NANO 626	Nanocomposite Membrane Technok	This course is intended to serve as an introduction to the field of nan
304	Geodetic and Geograp	GEOD 652	Sustainable Land Management	Global changing dynamics such as sustainable development, globaliz
305	International Trade an	ITF 503	Economics Of International Trade	The content of course include subject related to sustainability goals.
306	International Trade an	ITF 507	Growth And Development	The content of course include subject related to sustainability goals.

Full List of Courses/Subjects Related to Sustainability (Gebze Technical University, Turkiye)

Analysis of Sustainability Related Courses by Department (Gebze Technical University, Turkiye)

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
2	Architecture	Bachelor's	Faculty of Architecture	78	37	1	1	39
3	Architecture	Master's with Thesis and Master's without Thesis	Graduate School	48	27	0	0	27
4	Architecture	Doctoral	Graduate School	25	17	0	0	17
5			Total	151	81	1	1	83

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
7	Bioengineering	Bachelor's	Faculty of Engineering	54	1		0	1
8	Bioengineering	Master's with Thesis	Graduate School	12	0	0	0	0
9	Bioengineering	Doctoral	Graduate School	5	0	0	0	0
10			Total	71	1	0	0	1

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
12	Biotechnology	Doctoral	Institute of Biotechnology	18	10	0	0	10
13	Biotechnology	Master's with Thesis and Master's without Thesis	Institute of Biotechnology	21	8	0	0	8
14			Total	39	18	0	0	18

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
16	Chemistry	Bachelor's	Faculty of Science	50	2	0	0	2
17	Chemistry	Second Cycle (Master's)	Graduate School	18	0	0	0	0
18	Chemistry	Doctoral	Graduate School	60	2	0	0	2
19			Total	128	4	0	0	4

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
21	City and Regional Planning	Bachelor's	Faculty of Architecture	76	25	2	1	28
22	City and Regional Planning	Second Cycle (Master's)	Graduate School	29	7	1	0	8
23			Total	105	32	3	1	36

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	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
25	Civil Engineering	Bachelor's	Faculty of Engineering	46	4	0	0	4
26	Civil Engineering	Master's with Thesis	Graduate School	15	0	0	0	0
27			Total	61	4	0	0	4

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
28	Computer Engineering	Bachelor's	Faculty of Engineering	70	4	0	0	4
29	Computer Engineering	Second Cycle (Master's)	Graduate School	36	0	0	0	0
30	Computer Engineering	Doctoral	Graduate School	30	0	0	0	0
31			Total	136	4	0	0	4

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
32	Earth Sciences Doctoral Program	Doctoral	Institute of Earth and Marine Sciences	18	1	0	0	1
33	Earthquake and Structural Engineering	Second Cycle (Master's)	Graduate School	17	0	0	0	0
34	Earthquake and Structural Engineering	Doctoral	Graduate School	14	0	0	0	0
35			Total	49	1	0	0	1

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
36	Economics	Bachelor's	Faculty of Business Administration	52	0	0	9	9
37	Economics	Second Cycle (Master's)	Graduate School	24	0	1	3	4
38	Economics	Doctoral	Graduate School	13	0	0	0	0
39			Total	89	0	1	12	13

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
40	Electronics Engineering	Bachelor's	Faculty of Engineering	62	8	0	0	8
41	Electronics Engineering	Second Cycle (Master's)	Graduate School	61	0	0	0	0
42	Electronics Engineering	Doctoral	Graduate School	17	0	0	0	0
43			Total	140	8	0	0	8

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
44	Environmental Engineering	Bachelor's	Faculty of Engineering	47	40	1	0	41
45	Environmental Engineering	Second Cycle (Master's)	Graduate School	36	14	0	1	15
46	Environmental Engineering	Doctoral	Graduate School	22	13	0	0	13
47			Total	105	67	1	1	69

Analysis of Sustainability Related Courses by Department

Analysis of Sustainability Related Courses by Department

	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
55	Geodetic and Geographic Information Technologies	Second Cycle (Master's)	Graduate School	27	0	0	0	0
56	Geodetic and Geographic Information Technologies	Doctoral	Graduate School	19	1	0	0	1
57			Total	46	1	0	0	1
59	Industrial Engineering	Bachelor's	Faculty of Engineering	24	7	0	0	7
60	Industrial Engineering	Master's with Thesis	Graduate School	14	0	0	0	0
61	Industrial Engineering	Doctoral	Graduate School	8	0	0	0	0
62			Total	46	7	0	0	7
64	International Trade and Finance	Second Cycle (Master's)	Graduate School	27	0	0	2	2
65			Total	27	0	0	2	2
67	Management	Bachelor's	Faculty of Business Administration	55	0	2	1	3
68	Management	Second Cycle (Master's)	Graduate School	41	0	1	2	3
69	Management	Doctoral	Graduate School	26	0	2	0	2
70			Total	122	0	5	3	8
72	Materials Science and Engineering	Second Cycle (Master's)	Graduate School	36	0	0	0	0
73	Materials Science and Engineering	Bachelor's	Faculty of Engineering	52	1	0	0	1
74	Materials Science and Engineering	Doctoral	Graduate School	22	1	0	0	1
75			Total	110	2	0	0	2
78	Mechanical Engineering	Bachelor's	Faculty of Engineering	47	8	0	0	8
79	Mechanical Engineering	Second Cycle (Master's)	Graduate School	39	0	0	0	0
80	Mechanical Engineering	Doctoral	Graduate School	36	1	0	0	1
81			Total	122	9	0	0	9

Analysis of Sustainability Related Courses by Department

Analysis of Sustainability Related Courses by Department								
1	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
23	Molecular Biology and Genetics	Bachelor's	Faculty of Science	51	17	0	0	17
24	Molecular Biology and Genetics	Second Cycle (Master's)	Graduate School	16	5	0	0	5
25	Molecular Biology and Genetics	Doctoral	Graduate School	37	7	0	0	7
26			Total	104	29	0	0	29
1	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
28	Nanoscience and Nanoengineering	Master's with Thesis	Institute of Nanotechnology	7	2	0	0	2
29	Nanoscience and Nanoengineering	Doctoral	Institute of Nanotechnology	12	1	0	0	1
30			Total	19	3	0	0	3
Analysis of Sustainability Related Courses by Department								
1	Department	Degree Programs	Faculty	All Courses	Sustainability Courses - Environmental Focus	Sustainability Courses - Social Focus	Sustainability Courses - Economic Focus	All Sustainability Courses
32	Non-technical Elective Course	Bachelor's	Faculty of Engineering	14	3	0	0	3
33			Total	14	3	0	0	3
			Total	2327	274	11	20	305
					The ratio of all courses to sustainability courses			13,10%
Analysis of Sustainability Related Courses by Department (Gebze Technical University, Turkiye)								

Description

Total number of courses with sustainability embedded for courses running in 2023/2024: 305
 In addition, 2327 courses are taught at GTU in the 2023/2024 academic year. The ratio of sustainability-based courses to total courses is approximately 13.10%.

In the 2023/2024 academic year at Gebze Technical University, a total of 305 courses related to sustainability were offered. These courses were thoroughly examined in terms of sustainability, and they were categorized according to their content, which includes environmental, social, and economic dimensions of sustainability.

Among the sustainability-related courses listed above, those highlighted in green represent courses related to the environmental dimension of sustainability, while those in peach represent courses related to the social dimension of sustainability, and light blue represents courses related to the economic dimension of sustainability. Out of the 305 sustainability-related courses offered at Gebze Technical University during the fall and spring semesters of the 2023/2024 academic year, 274 courses focused on the environmental dimension of sustainability, 11 courses focused on the social dimension, and 20 courses focused on the economic dimension.

When examined based on undergraduate, master's, and doctoral levels at Gebze Technical University during the 2023/2024 academic year, the sustainability-related courses can be categorized as follows:

i-) At the undergraduate level, a total of 175 sustainability-related courses are offered. Among these, 157 courses focus on the environmental dimension of sustainability, 6 courses focus on the social dimension, and 12 courses focus on the economic dimension.

ii-) At the master's level, there are 74 sustainability-related courses offered. Out of these, 63 courses concentrate on the environmental dimension, 3 courses on the social dimension, and 8 courses on the economic dimension.

iii-) At the doctoral level, there are a total of 56 sustainability-related courses offered. Among these, 54 courses are related to the environmental dimension, while 2 courses focus on the social dimension.

Sustainability-related courses offered at Gebze Technical University during the 2023/2024 academic year can be examined based on departments as follows:

1-) In the Architecture Department, a total of 83 sustainability-related courses are offered. Among these, 81 courses focus on the environmental dimension of sustainability, while 1 course focuses on the social dimension, and 1 course addresses the economic dimension.

2-) In the field of Biomedical Engineering, there is 1 sustainability-related course offered. This course focuses on the environmental dimension of sustainability.

3-) In the Biotechnology department, a total of 18 sustainability-related courses are offered, and all of these courses focus on the environmental dimension of sustainability.

4-) In the Chemistry department, a total of 4 sustainability-related courses are offered, and all of these courses focus on the environmental dimension of sustainability.

5-) In the field of Urban and Regional Planning, a total of 36 sustainability-related courses are offered. Among these, 32 courses focus on the environmental dimension of sustainability, 3 courses on the social dimension, and 1 course addresses the economic dimension.

6-) In the field of Civil Engineering, all 4 sustainability-related courses offered focus solely on the environmental dimension of sustainability.

7-) In the field of Computer Engineering, all 4 sustainability-related courses offered are solely focused on the environmental dimension of sustainability.

8-) In the field of Earth and Marine Sciences, there is 1 sustainability-related course offered, which focuses on the environmental dimension of sustainability.

9-) In the Economics department, a total of 13 sustainability-related courses are offered. Among these, 2 courses focus on the economic dimension of sustainability, while 1 course addresses the social dimension.

10-) In the field of Electrical Engineering, 8 sustainability-related courses are offered, and all of these courses focus on the environmental dimension of sustainability.

11-) In the field of Environmental Engineering, a total of 69 sustainability-related courses are offered. Among these, 67 courses focus on the environmental dimension of sustainability, 1 course focuses on the social dimension, and 1 course addresses the economic dimension.

12-) In the Geodetic and Geographic Information Technologies program, there is 1 sustainability-related course offered, which focuses on the environmental dimension of sustainability.

13-) In the field of Industrial Engineering, 7 sustainability-related courses are offered, and all of them are focused on the environmental dimension of sustainability.

14-) In the International Trade and Finance program, there are 2 sustainability-related courses offered, and both of these courses focus on the economic dimension of sustainability.

15-) In the Management program, a total of 8 sustainability-related courses are offered. Among these, 3 courses focus on the economic dimension of sustainability, while 5 courses address the social dimension.

16-) In the Materials Science and Engineering program, there are 2 sustainability-related courses offered, and both of these courses focus on the environmental dimension of sustainability.

17-) In the field of Mechanical Engineering, 9 sustainability-related courses are offered, and all of them are focused on the environmental dimension of sustainability.

18-) In the Molecular Biology and Genetics program, a total of 29 sustainability-related courses are offered, and all of these courses focus on the environmental dimension of sustainability.

19-) In the Nanoscience and Nanoengineering program, there are 3 sustainability-related courses offered, and all of these courses focus on the environmental dimension of sustainability.

20-) In the engineering faculty, there are 3 technical elective courses offered related to sustainability. All of these courses focus on the environmental dimension of sustainability.

You can access the detailed course contents, names and analysis visuals of the above sustainability-related courses from this link: <https://sustainable.gtu.edu.tr/sustainable/allCourses>