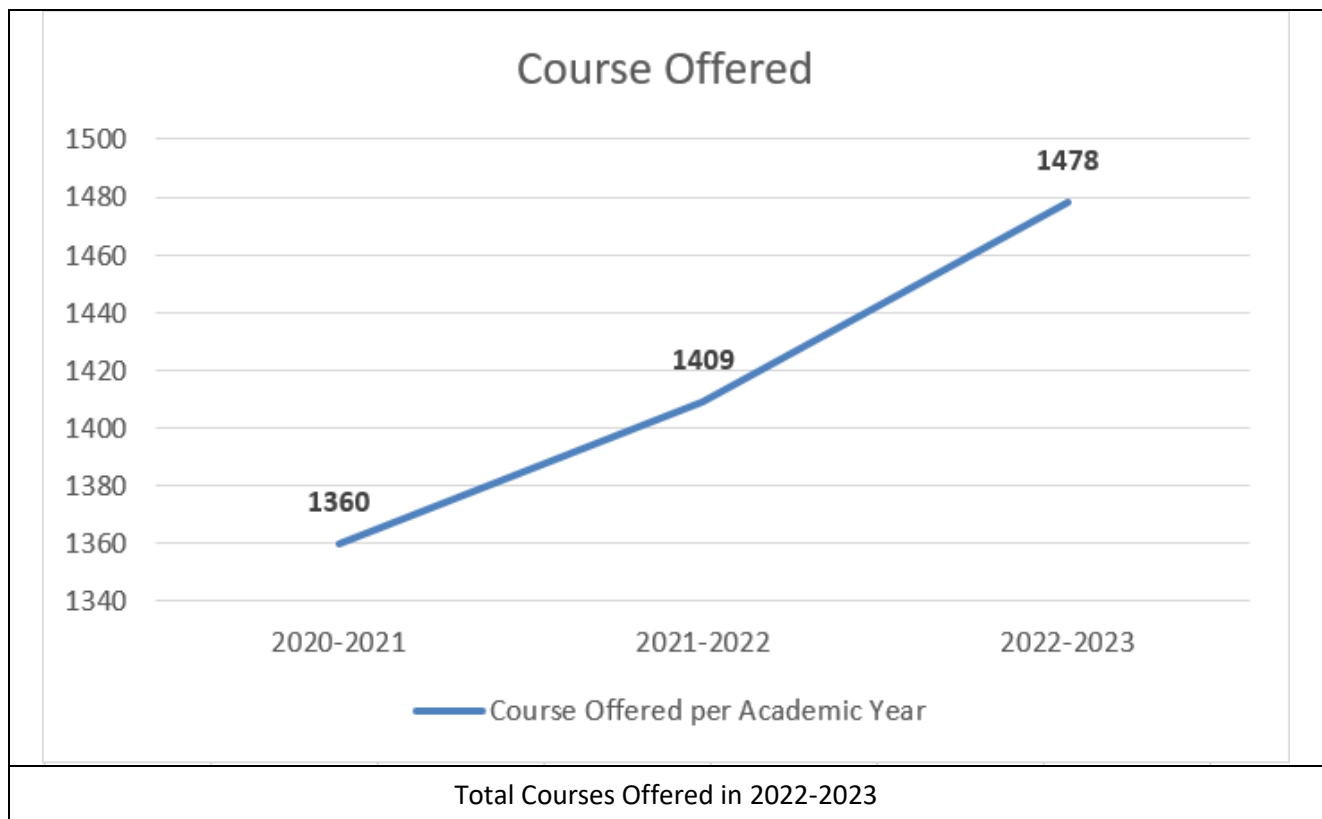


Template for Evidence(s) UI GreenMetric Questionnaire

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

[6] Education and Research (ED)

[6.2] Total Number of Courses/Subjects Offered



Course Code	Course Title	Course Code	Course Title
AERO 101	Introduction to Aeronautical Engineering	ENGL 111	English For Business Life
AERO 108	Advanced Programming in Aeronautical Engineering	ENGL 112	Academic English
AERO 234	Electrical and Electronic Systems	ENT 501	Fundamentals Of Entrepreneurship
AERO 241	Principles of Thermodynamics	ENT 541	Project Management in Business Administration
APS 505	Gas Turbine Aerothermals I	ENVE 101	Introduction to Environmental Engineering and Career Planning
APS 506	Introduction to Systems Engineering	ENVE 204	Environmental Microbiology
APS 515	Advanced Topics in Aerospace Technologies	ENVE 311	Understanding Climate Change and Solutions
APS 525	Aerospace Standards and Qualifications	ENVE 407	Sustainability Concepts in Environmental Engineering
ARCH 102	Computer Applications in Architecture	ENVE 524	Groundwater Pollution
ARCH 334	Labor And Public Improvement Law	ENVE 532	Mine Waste and Management
ARCH 532	Criticism In Architecture	ENVE 625	Biomass and Waste Technologies
ARCH 623	Architecture, Modernity and Beyond	ENVE 653	Sustainable Design Principles
ARCHF 166	Design and Identity	EQE 519	Dynamics Of Structures
ARCHF 286	Society and Space	EQE 560	Earthquake Resistant Design of Steel Structures
ARCHF 356	Animation Methods in Architecture	EQE 672	Fundamentals of Tsunamis and Their Hazard Assessment

Course Code	Course Title	Course Code	Course Title
ARCHF 436	Ecological Planning in Architecture	EQE 681	Seismic Hazard Assessment
ARCT 530	Urban Design: An Urban Renewal Method	EQE 730	Special Topics in Earthquake Engineering
ARCT 566	Earthquake Resistant Design Principles	EQE 736	Advanced Topics in Earthquake Engineering
BENG 100	Bioengineering Orientation and Career Planning	ESC 502	Introduction to Earth Sciences
BENG 215	Python for Bioengineers	ESC 512	Environmental Geology
BENG 312	Bioprocess Engineering Principles	ESC 523	Introduction to Atmospheric Physics
BENG 423	Biomedical Electronics	ESC 529	Modern Mapping Techniques in Earth Sciences
BENG 517	Biomechanics	FS 101	Occupational Health and Safety I
BENG 525	Artificial Intelligence Techniques for Bioinformatics	FS 202	Introduction to Philosophy of Management
BENG 613	Genome Scale Metabolic Model	FS 301	Quality Systems and Accreditation
BENG 666	Wearable Technologies in Bioengineering	GEO 103	Fundamentals of Surveying and Instruments
BTEC 521	Entrepreneurship in Biotechnology	GEO 203	Geodesy and Coordinate Systems
BTEC 554	Biosensors	GEO 305	Digital Image Processing
BTEC 652	Forensic Technologies	GEO 417	Microwave Sensing Systems
BTEC 682	Metabolic and Cellular Engineering	GEOD 519	Image Analysis Techniques and Their Applications in Remote Sensing
BUS 106	Database Management in Business	GEOD 527	Panoramic Image Acquisition and Processing Techniques
BUS 204	Human Resource Management	GEOD 664	Programming in GIS and Remote Sensing
BUS 304	Management Information Systems	GEOD642	Use of InSAR Method in Monitoring of Crustal Movements
BUS 453	Total Quality Management	HIS 101	Principles of Atatürk and the History of Turkish Revolution I
BUS 513	Entrepreneurship and Small Business Management	IE 101	Introduction to Industrial Engineering and Career Planning
BUS 531	Marketing Management	IE 204	Economics for Engineers II
BUS 601	Advanced Research Techniques I	IE 302	Simulation
BUS 629	Change Management	IE 468	Energy Policy, Planning and Markets
CE 102	Technical Drawing for Civil Engineers	IE 516	Supply Chain and Logistics Management
CE 231	Materials Science for Civil Engineers	IE 517	Production Systems Modelling and Design
CE 323	Natural Hazards and Disasters	IE 612	Introduction to Convex Optimization
CE 462	Coastal and Harbor Structures Design	INF 100	Introduction to Computer Systems
CE 529	Soil Improvement Techniques	INF 212	Algorithms and Programming II
CE 567	Groundwater Hydraulics	ITF 503	Economics Of International Trade
CE 627	Recent Trends in Geotechnical Engineering	ITF 525	E-Commerce
CE 648	Research Methods in Construction Management	MAN 521	Strategic Management
CED 101	Introduction to Chemical Engineering and Career Planning	MAN 537	Operation Research
CED 201	Chemical Engineering Calculations	MATH 101	Calculus I
CED 321	Chemical Reaction Engineering	MATH 206	Topology
CED 461	Battery Technologies	MATH 305	Partial Differential Equations
CED 512	Mathematical Modelling Applications in Chemical Engineering	MATH 451	Matrix Theory
CED 532	Machine Learning for Energy Applications	MATH 517	Ring Theory I
CED 618	Bioenergy Synthesis	MATH 582	Probability And Mathematical Statistics II
CED 627	Advanced Electrochemical Technique	MATH 672	Potential Theory
CHEM 106	Organic Chemistry I	MATH 682	Behavioral Properties of the Solutions of Nonlinear Parabolic Equations
CHEM 291	Analytical Chemistry Laboratory I	MBG 101	Principles of Biology
CHEM 306	Biochemistry I	MBG 222	Molecular Genetics I
CHEM 420	Polymer Chemistry	MBG 333	Molecular Cell Biology Laboratory
CHEM 428	Green Chemistry	MBG 410	Bacterial Ecology
CHEM 524	Chemistry Of Nonmetals	MBG 512	Biosafety And Bioethics
CHEM 568	Liquid Crystals	MBG 572	Bacterial Ecology
CHEM 613	NMR Techniques and Applications	MBG 612	Protein Trafficking
CHEM 614	Clean Chemical Synthesis	MBG 632	Cancer Molecular Genetics
CHEM 725	Chemistry of Nanomaterials	ME 102	Mechanical Engineering Freshman Project
CHEM 770	Fluorescence Spectroscopy	ME 241	Principles of Thermodynamics
CRP 111	Introduction to City Planning	ME 314	Introduction to Composite Materials
CRP 213	Transportation Planning	ME 414	Polymer Materials and Polymer Processing Techniques
CRP 314	City and Environment	ME 520	Fundamentals of Finite Element Analysis
CRP 436	Urban Ecology and Planning	ME 541	Heat Exchanger Design
CRP 516	Geographical Information Systems	ME 623	Continuum Mechanics
CRP 521	Urban Morphology	ME 636	Sustainable Machining
CSE 102	Computer Programming	MSE 104	Materials Science
CSE 232	Logic Circuits and Design	MSE 204	Crystal Chemistry
CSE 343	Software Engineering	MSE 308	Microstructural Characterization
CSE 470	Cryptography and Computer Security	MSE 434	Photovoltaic Energy Materials and Operating Principles
CSE 511	Advanced Topics in Discrete Mathematics	MSE 518	Surface Modification Techniques
CSE 557	Data Mining	MSE 535	Solid State Ionics
CSE 685	Robot Control Theory	MSE 619	Fracture Mechanics

Course Code	Course Title	Course Code	Course Title
CSE654	Introduction to Natural Language and Speech Processing	MSE 627	Sustainable Polymers
CYB 531	Coding Theory	NANO 511	Fundamentals of Nanoscience and Nanotechnology
CYB 572	Network and Information Security	NANO 513	Advanced Characterization Techniques in Nanotechnology
ECON 101	Introduction to Economics I	NANO 615	Nanophotonics
ECON 203	Macroeconomics I	NANO 629	Biopolymers Obtained from Sustainable Resources and Applications
ECON 322	Development Economics	PES 140	Voluntary Work
ECON 464	Sustainability and Governance	PES 150	Tennis I
ECON 507	International Trade Theory and Policy	PES 160	Swimming I
ECON 522	Regional Economics	PES 180	Basketball I
ECON 709	International Economics	PHYS 111	Elementary Physics I
ECON 714	Game Theory	PHYS 203	Waves and Optics
ELEC 101	Introduction to Electronics Engineering and Career Planning	PHYS 330	Introduction to Light Science
ELEC 234	Logic Circuits and Design	PHYS 416	Computer Applications in Physics
ELEC 323	Electromechanical Energy Conversion	PHYS 513	Experimental Techniques in Physics
ELEC 426	Introduction to Electric Power Systems and Smart Grids	PHYS 520	Quantum Mechanics I
ELEC 515	Function Theory of Complex Variables for Engineers I	PHYS 612	Lasers And Applications
ELEC 567	Digital Signal Processing	PHYS 620	Physics Of Thin Films
ELEC 641	Localization Techniques	SSTR 541	Management And Organizations
ELEC 665	Wireless Optical Communication	SSTR 608	Strategic Issues in the Modern Europe History
ENG 251	Methodology Of Science	SSTR 651	Strategic Management and Business Policy
ENG 262	Engineering Applications in Industry	STEC 544	Introduction to Radar and ELINT
ENG 266	Environmental Literacy	STEC 581	Autonomous Mobile Robots
ENG 310	Global Warming and Climate Change	STEC 585	Mechatronic System Design
ENG 311	Introduction to Global Warming and Climate Change	TUR 101	Turkish I
ENG 460	Introduction to Photography	TUR 102	Turkish II
Examples of Courses Offered in 2022-2023			

Description:

Total number of courses offered in 2022-2023 academic year = 1478 courses

Academic Year	Total Number of Courses
2020-2021	1360
2021-2022	1409
2022-2023	1478