



## UI GreenMetric Questionnaire

University : Baku State University  
 Country : Azerbaijan  
 Web Address : <http://bsu.edu.az/en>  
 SDG Focused Web Address: <https://sdg.bsu.edu.az/>

### [6] Education and Research (ED)

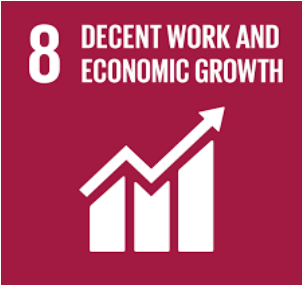
#### [6.1] Number of Courses/Subjects Related to Sustainability Offered

| Relation to SDGs                                                                                                                 | Master's Degree:                         | Bachelor's Degree:                                                                                                                                                                                       |
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| <b>SDG 1 – No Poverty</b><br>                  | 1. Management of Sustainable Development | 1. Management of Sustainable Development<br>2. Regulation of the Economy<br>3. Macroeconomic Policy<br>4. International Economic Relations<br>5. Sustainable Development Goals in Azerbaijan             |
| <b>SDG 2 – Zero Hunger</b><br>                | 2. Management of Sustainable Development | 6. Food Engineering<br>7. Regulation of the Economy<br>8. Macroeconomic Policy<br>9. Food Security and Sustainable Development<br>10. Ensuring Food Security<br>11. Sustainable Agricultural Development |
| <b>SDG 3 – Good Health and Well-being</b><br> | 3. Medical Law                           | 12. Fundamentals of Human Development and Ecological Civilization – 2<br>13. Fundamentals of Human Development and Ecological Civilization – 1                                                           |



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| <p><b>SDG 4 – Quality Education</b></p>             | <p>4. Assessment and Monitoring in Education</p> <p>5. Research Methods</p> <p>6. Academic Writing and Ethics</p> <p>7. Research Analytics</p> <p>8. Methodology of Climatology and Research Methods</p> <p>9. Climate Data Collection and Analysis Methods</p> | <p>14. Social-Psychological Services in Education</p> <p>15. Business and Academic Communication in a Foreign Language – 2</p> <p>16. Business and Academic Communication in Azerbaijani</p> <p>17. Business and Academic Communication in a Foreign Language – 1</p> <p>18. Statistics</p> <p>19. Key Indicators of Sustainable Development</p> <p>20. Philosophy</p> <p>21. Logic</p> <p>22. Ethics</p> |
| <p><b>SDG 5 – Gender Equality</b></p>             | <p>10. Human Rights</p>                                                                                                                                                                                                                                         | <p>23. Social Work</p> <p>24. Social Psychology</p> <p>25. Social Work in Various Fields of Life Activity</p> <p>26. Human Resource Management – 1</p>                                                                                                                                                                                                                                                    |
| <p><b>SDG 6 – Clean Water and Sanitation</b></p>  | <p>11. Integrated Water Resources Management</p> <p>12. Sustainable Development and Artificial Intelligence</p> <p>13. Assessment of Climate Change Impact on Water Resources</p>                                                                               | <p>27. Water Bio-resources and Aquaculture</p> <p>28. Hydrology</p> <p>29. Land Reclamation Engineering</p> <p>30. Water Bio-resources</p> <p>31. Water Bio-resources and Aquatic Plants</p>                                                                                                                                                                                                              |



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| <p><b>SDG 7 – Affordable and</b></p>  <p><b>Clean Energy</b></p> | <p>14. High Energy Physics<br/>15. Use of Renewable Energy Sources<br/>16. Green Development<br/>17. Renewable Energy Technologies in Climate Change Adaptation</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>32. Marine and Energy Law<br/>33. Energy Security and Sustainable Development<br/>34. Green and Blue Economy</p>                                                                                                                                                                                                                                                                                              |
| <p><b>SDG 8 – Decent Work and Economic Growth</b></p>           | <p>18. Regulation of the Economy<br/>19. World Economy<br/>20. Macroeconomic Policy<br/>21. Tourism Economics<br/>22. Legal Regulation of the Economy<br/>23. Management of Sustainable Development<br/>24. Business Organization and Management<br/>25. Sociology of Management<br/>26. Foundations of Ecological Civilization and Green Economy<br/>27. Planning and Management of Green and Blue Economy<br/>28. Application of New Technologies in Production<br/>29. Development of Green and Blue Economy in Azerbaijan<br/>30. Role of Entrepreneurship in Development<br/>31. Urban Services in Sustainable Development<br/>32. Green Economy and New World Order<br/>33. Modern Development of Green and Blue Economy</p> | <p>35. Business Management<br/>36. International Trade and Logistics<br/>37. International Tourism and Regional Studies<br/>38. Principles of Economics<br/>39. Information Technologies in Management – 2<br/>40. Inclusive Development Management – 1<br/>41. Management<br/>42. Human Resource Management – 1<br/>43. Human Resource Management – 2<br/>44. Introduction to Entrepreneurship and Business</p> |
|                                                                                                                                                   | <p>34. Regulation of the Economy<br/>35. Tourism Economics</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>45. Management of Sustainable Development</p>                                                                                                                                                                                                                                                                                                                                                                 |



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| <p><b>SDG 9 – Industry, Innovation and Infrastructure</b></p>  | <p>36. Management of Sustainable Development<br/>37. Management of Natural Resources in Sustainable Development<br/>38. Research Analytics<br/>39. Sustainable Development and Artificial Intelligence<br/>40. Modern Technologies in Natural Resource Use<br/>41. Application of New Technologies in Production<br/>42. Role of Entrepreneurship in Development<br/>43. Modern Technologies in Waste Management<br/>44. Transport and Infrastructure Development<br/>45. Application of Innovative Technologies for Climate Change</p> | <p>46. Mathematical Methods in Management – 1<br/>47. Mathematical Methods in Management – 2<br/>48. Information Technologies in Management – 1<br/>49. Information Technologies in Management – 2<br/>50. Principles of Economics<br/>51. Statistics<br/>52. Management<br/>53. Modern Management Technologies – 1<br/>54. Information Technologies<br/>55. Information Management<br/>56. Introduction to Entrepreneurship and Business<br/>57. Transport Geography and Infrastructure Provision<br/>58. Modern Management Technologies – 2<br/>59. Fundamentals of GIS</p> |
| <p><b>SDG 10 – Reduced Inequalities</b></p>                  | <p>46. General Psychology</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>60. Social Work<br/>61. Social Psychology<br/>62. Fundamentals of Economic and Social Geography<br/>63. Inclusive Development Management – 1<br/>64. Inclusive Development Management – 2<br/>65. Sociology<br/>66. Introduction to Multiculturalism</p>                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                 | <p>47. Land Management, Land and Urban Cadaster<br/>48. Development of Green and Blue Economy in Azerbaijan<br/>49. Transport and Infrastructure Development</p>                                                                                                                                                                                                                                                                                                                                                                        | <p>67. Land Management and Real Estate Cadaster<br/>68. Environmental Management and Biological Monitoring<br/>69. Methods and Restoration of Environmental Protection</p>                                                                                                                                                                                                                                                                                                                                                                                                    |



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| <p><b>SDG 11 – Sustainable Cities and Communities</b></p>  | <p>50. Urban Services in Sustainable Development<br/>51. Sustainable Development and Artificial Intelligence<br/>52. Green Development<br/>53. Risk Management and Climate Change<br/>54. Climate Change and Sustainable Development<br/>55. Microclimate Changes and Local Adaptation Processes</p> | <p>70. Biodiversity and Nature Protection<br/>71. Environmental Protection in the Agricultural Sector<br/>72. Bioecology<br/>73. Fundamentals of Sustainable Development – 1<br/>74. Fundamentals of Sustainable Development – 2<br/>75. Fundamentals of Economic and Social Geography<br/>76. Management of Regional Sustainable Development<br/>77. Concept of Sustainable Development<br/>78. Urbanization and Urban Planning<br/>79. Urban Development Management<br/>80. Transport Geography and Infrastructure Provision<br/>81. Civil Defense<br/>82. Application of GIS Technologies<br/>83. Use of GIS in Sustainable Development Assessment<br/>84. Risk Management in Sustainable Development<br/>85. Sustainable Development Management in the Republic of Azerbaijan<br/>86. Ensuring Sustainable Development in Azerbaijan</p> |
|                                                                                                                                             | <p>56. Examination and Marketing of Consumer Goods<br/>57. Foundations of Ecological Civilization and Green Economy<br/>58. Modern Technologies in Natural Resource Use</p>                                                                                                                          | <p>87. Fundamentals of Sustainable Development – 1<br/>88. Fundamentals of Sustainable Development – 2<br/>89. Efficient Use of Natural Resources</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



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| <p><b>SDG 12 – Responsible Consumption and Production</b></p>  | <p>59. Consumption Culture and Sustainable Development<br/>60. Blue Economy in Waste Management Development<br/>61. Modern Technologies in Waste Management<br/>62. Modern Development of Green and Blue Economy</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>90. Natural Resource Management<br/>91. Natural Resource Assessment<br/>92. Food Security and Sustainable Development<br/>93. Concept of Sustainable Development<br/>94. Territorial Management and Sustainable Development<br/>95. Green and Blue Economy</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>SDG 13 – Climate Action</b></p>                         | <p>63. Climatology<br/>64. Sustainable Development and Artificial Intelligence<br/>65. Foundations of Ecological Civilization and Green Economy<br/>66. Global Water Crisis and Efficient Use of Water Resources<br/>67. Planning and Management of Green and Blue Economy<br/>68. Modern Technologies in Natural Resource Use<br/>69. Use of Renewable Energy Sources<br/><br/>70. Consumption Culture and Sustainable Development<br/>71. Transport and Infrastructure Development<br/>72. Green Economy and New World Order<br/>73. Introduction to Climate Change Adaptation<br/>74. Climate Change and Environment<br/>75. Green Development<br/>76. Monitoring and Forecasting Climate Risks<br/>77. Climate Change Mitigation</p> | <p>96. Hydrometeorology<br/>97. Fundamentals of Human Development and Ecological Civilization – 2<br/>98. Fundamentals of Sustainable Development – 1<br/>99. Fundamentals of Sustainable Development – 2<br/>100. Fundamentals of Human Development and Ecological Civilization – 1<br/>101. Efficient Use of Natural Resources<br/>102. Management of Regional Sustainable Development<br/><br/>103. Energy Security and Sustainable Development<br/>104. Concept of Sustainable Development<br/>105. Territorial Management and Sustainable Development<br/>106. Urban Development Management<br/>107. Civil Defense<br/>108. Application of GIS Technologies<br/>109. Use of GIS in Sustainable Development Assessment<br/>110. Risk Management in Sustainable Development</p> |



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|  | <p>78. Global and Regional Climate Models and Adaptation Scenario Analysis</p> <p>79. Risk Management and Climate Change</p> <p>80. Renewable Energy Technologies in Climate Change Adaptation</p> <p>81. Impact of Climate Change on Water Resources and Adaptation Strategies</p> <p>82. Climate Change and Water Resources</p> <p>83. Climate Change and Sustainable Development</p> <p>84. Adaptation Measures and Planning</p> <p>85. Financing Adaptation Methods</p> <p>86. Microclimate Changes and Local Adaptation Processes</p> <p>87. Climate Theory</p> <p>88. Methodology of Climatology and Research Methods</p> <p>89. Monitoring and Assessment of Climate Risks</p> <p>90. General Circulation of the Atmosphere</p> <p>91. Study of Global Climate Change</p> <p>92. Impact of Climate Change on Meteorological Factors</p> <p>93. Assessment of Regional Climate Change</p> <p>94. Mechanisms of Atmospheric Circulation Impact on Climate</p> | <p>111.Green and Blue Economy</p> <p>112.Sustainable Development Management in the Republic of Azerbaijan</p> <p>113.Ensuring Sustainable Development in Azerbaijan</p> |
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|                                               | <p>95. Impact of Natural Factors on Climate Indicators and Observation Methods</p> <p>96. Application of Innovative Technologies for Climate Change</p> <p>97. Climate Data Collection and Analysis Methods</p> <p>98. Atmospheric Ecology and Protection</p> <p>99. Assessment of Regional and Global Impacts of Global Warming</p> <p>100. Assessment of Climate Change Impact on Water Resources</p> |                                                                                                                                                                                                                                                                                                                                                                               |
| <p>SDG 14 – Life Below Water</p> <p>Water</p> | <p>101. Physical Oceanology</p> <p>102. Planning and Management of Green and Blue Economy</p> <p>103. Blue Economy in Waste Management Development</p> <p>104. Modern Development of Green and Blue Economy</p>                                                                                                                                                                                         | <p>114. Geology of the Sea and Ocean Floor</p> <p>115. Green and Blue Economy</p>                                                                                                                                                                                                                                                                                             |
| <p>SDG 15 – Life on Land</p>                  | <p>105. Ecological Monitoring and Protection of Soil</p> <p>106. Climate Change and Environment</p> <p>107. Impact of Natural Factors on Climate Indicators and Observation Methods</p> <p>108. Atmospheric Ecology and Protection</p>                                                                                                                                                                  | <p>116. Soil Science and Agrochemistry</p> <p>117. Land Management and Real Estate Cadastre</p> <p>118. Land Management and Land Inspection</p> <p>119. Land Cadastre</p> <p>120. Fundamentals of Human Development and Ecological Civilization – 2</p> <p>121. Fundamentals of Human Development and Ecological Civilization – 1</p> <p>122. Natural Resource Management</p> |





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|                                                                                                                                                 |                                                                                 | <p>123.Natural Resource Assessment</p> <p>124.Sustainable Agricultural Development</p> <p>125.Use of GIS in Sustainable Development Assessment</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p><b>SDG 16 – Peace, Justice and Strong Institutions</b></p>  | <p>109. Public and Social Relations</p> <p>110. Academic Writing and Ethics</p> | <p>126.Law</p> <p>127.Human Rights</p> <p>128.Information Law</p> <p>129.History of Azerbaijan</p> <p>130.Political Geography and Geopolitics</p> <p>131.Public Service</p> <p>132.Sustainable Public Policy in Development</p> <p>133.Political Science</p> <p>134.Theory of Public Administration</p> <p>135.Legal Framework of Sustainable Development</p> <p>136.Sociology</p> <p>137.Constitution of the Republic of Azerbaijan and Fundamentals of Law</p> <p>138.Ethics</p> <p>139.Introduction to Multiculturalism</p> <p>140.Sustainable Development Management in the Republic of Azerbaijan</p> |



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| <p><b>SDG 17 – Partnerships for the Goals</b></p>  | <p>111. Management of Sustainable Development</p> <p>112. Green Economy and New World Order</p> <p>113. Financing Adaptation Methods</p> | <p>141. Business and Academic Communication in a Foreign Language – 1</p> <p>142. Business and Academic Communication in a Foreign Language – 2</p> <p>143. Sustainable Public Policy in Development</p> <p>144. Key Indicators of Sustainable Development</p> <p>145. Legal Framework of Sustainable Development</p> <p>146. Sustainable Development Goals and International Cooperation</p> <p>147. Sustainable Development Goals in Azerbaijan</p> <p>148. Ensuring Sustainable Development in Azerbaijan</p> |
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<http://sdg.bsu.edu.az/academic-contribution-to-sdgs>

#### OFFICIALLY RECOGNIZED ENVIRONMENTAL SCIENCE RELATED COURSES

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| <p><b>1. Introduction to Climate Science</b></p> <ul style="list-style-type: none"> <li>Overview of the Earth's climate system, including atmospheric, oceanic, and terrestrial processes, with emphasis on climate change science, anthropogenic drivers, greenhouse gas dynamics, and the environmental and socio-economic impacts of human activities on global climate systems.</li> </ul>          |
| <p><b>2. Climate Change and Policy</b></p> <ul style="list-style-type: none"> <li>Analyzing global climate governance frameworks, international agreements such as the Paris Agreement, national climate policies, and policy-making processes related to mitigation, adaptation, and sustainable development, while examining institutional and regulatory responses to climate challenges.</li> </ul> |
| <p><b>3. Environmental Sustainability and Development</b></p> <ul style="list-style-type: none"> <li>Explores principles of sustainable development, environmental economics, resource efficiency, and the integration of sustainability into policy and practice, focusing on balancing environmental protection, social equity, and economic growth.</li> </ul>                                       |
| <p><b>4. Climate Change Mitigation Strategies</b></p>                                                                                                                                                                                                                                                                                                                                                   |



- Examines strategies, technologies, and policy instruments aimed at reducing greenhouse gas emissions, including renewable energy, energy efficiency, carbon management, and nature-based solutions, alongside their environmental and economic implications.

#### **5. Climate Change Adaptation**

- Focuses on strategies for adapting to climate impacts through resilience-building in communities, infrastructure, and ecosystems, including risk assessment, adaptive planning, and approaches to reducing vulnerability to climate-related hazards.

#### **6. Ecology and Ecosystem Services**

- Studies the role of ecosystems in climate regulation, biodiversity conservation, and the provision of ecosystem services such as carbon sequestration, water regulation, and soil protection, with emphasis on sustainability and ecosystem resilience.

#### **7. Environmental Impact Assessment**

- Introduces methods and tools for assessing the environmental impacts of projects and human activities, including climate risk considerations, sustainability indicators, and decision-making approaches supporting environmentally responsible development.

#### **8. Renewable Energy and Climate Solutions**

- Focuses on renewable energy technologies such as solar, wind, and bioenergy, exploring their technical, environmental, and economic dimensions, and their contribution to climate mitigation and sustainable energy transitions.

#### **9. Environmental Law and Governance**

- Examines national and international environmental law, regulatory mechanisms, and governance frameworks addressing climate change, environmental protection, compliance, and the implementation of sustainability-related legal instruments.

#### **10. Sustainable Agriculture and Food Security**

- Explores sustainable agricultural practices, climate-resilient farming systems, food security challenges, and the interconnections between climate change, natural resources, and sustainable food production systems.

#### **11. Climate Change in Urban Planning**

- Examines urban sustainability, smart city approaches, and the integration of climate mitigation and adaptation strategies into urban planning, focusing on resilient infrastructure, sustainable land use, and low-carbon urban development.

#### **12. Climate Communication and Public Engagement**

- Explores approaches to communicating climate science, policy, and sustainability issues to diverse audiences, including public awareness strategies, stakeholder engagement, and science communication for informed decision-making.

#### **13. Climate Change and Health**



- Analyzes the relationship between climate change and public health, including impacts on air quality, infectious diseases, food and water security, and the resilience of health systems to climate-related risks.

#### **14. Sustainability Metrics and Assessment**

- Introduces tools and frameworks for measuring and assessing sustainability performance at organizational and governmental levels, including environmental, social, and economic indicators, reporting standards, and assessment methodologies.

#### **15. Research Methods in Environmental Science**

- Provides techniques and methodologies for conducting research in climate science and environmental sustainability, including data collection, quantitative and qualitative analysis, modeling, and interpretation of environmental data.

#### **16. Global Climate Systems**

- Offers an in-depth study of atmospheric, oceanic, and terrestrial processes within the Earth's climate system, examining their interactions and influence on global climate variability and long-term climate change.

#### **17. Climate Change and Water Resources**

- Examines the impacts of climate change on water availability, hydrological systems, and water quality, while exploring sustainable water management, conservation strategies, and adaptation responses.

#### **18. Sustainable Urban Design**

- Focuses on sustainable architecture, green building practices, and urban design approaches that mitigate climate risks, improve energy efficiency, and enhance resilience in built environments.

#### **19. Climate Finance and Economics**

- Explores the economics of climate change, climate finance mechanisms, carbon investments, and financial instruments that support mitigation, adaptation, and sustainable development initiatives.

#### **20. Biodiversity and Conservation in the Context of Climate Change**

- Examines the role of biodiversity in ecosystem resilience and climate mitigation, while exploring conservation strategies to protect species, habitats, and ecological functions under changing climatic conditions.

#### **21. Geographic Information Systems (GIS) for Environmental Science**

- Introduces the application of GIS tools in environmental management, climate monitoring, spatial analysis, and decision-making for sustainability planning and resource management.

#### **22. Climate Change in the Arctic and Vulnerable Regions**

- Explores the impacts of climate change in highly vulnerable regions, including the Arctic and low-lying islands, with focus on environmental change, adaptation strategies, and socio-economic implications.



### **23. Carbon Markets and Trading**

- Examines carbon markets, emissions trading systems, and carbon credit mechanisms, analyzing their economic principles, governance structures, and role in supporting climate mitigation.

### **24. Social Justice and Climate Change**

- Investigates the intersections of climate change, equity, and social justice, focusing on vulnerable populations, environmental justice challenges, and inclusive approaches to climate action.

### **25. Climate Science and Engineering Solutions**

- Explores engineering-based responses to climate change, including carbon capture, geoengineering, sustainable infrastructure, and technological innovations supporting mitigation and adaptation.

### **26. Waste Management and Circular Economy**

- Examines waste reduction, resource efficiency, recycling systems, and circular economy principles aimed at minimizing environmental impacts and promoting sustainable production and consumption.

### **27. Environmental Toxicology and Pollution**

- Studies pollutants and contaminants, their impacts on ecosystems and human health, and strategies for pollution prevention, hazardous material management, and environmental remediation.

### **28. Sustainable Tourism and Climate Change**

- Explores sustainable tourism practices, environmental management in tourism, and strategies for reducing climate impacts while promoting responsible and resilient tourism systems.

### **29. Climate Change and Food Systems**

- Analyzes the impacts of climate change on food systems, agricultural production, supply chains, and food security, while examining sustainable solutions across food industries.

### **30. Environmental Education and Advocacy**

- Prepares students to promote environmental sustainability through education, advocacy, public outreach, and communication strategies that support awareness and behavioral change.

### **31. Environmental Psychology and Climate Action**

- Examines human behavior and psychological factors influencing environmental decision-making, sustainability practices, and engagement in climate action.

### **32. Oceanography and Climate Change**

- Studies the role of oceans in climate regulation, marine ecosystem responses to climate change, and strategies addressing ocean-related environmental challenges.

### **33. Climate Justice and Indigenous Knowledge**

- Explores climate justice perspectives and the role of indigenous knowledge systems in adaptation, resilience-building, and sustainable environmental governance.



#### **34. Sustainable Transport Systems**

- Focuses on designing transport systems that reduce emissions, including electric mobility, sustainable public transport, and low-carbon urban mobility solutions.

#### **35. Climate Change and Energy Security**

- Analyzes the relationship between climate change and energy security, with emphasis on sustainable energy systems, resilience, and reducing dependency on fossil fuels.

#### **36. Climate Change and Human Migration**

- Examines climate-related displacement, migration dynamics, and policy responses addressing the socio-economic implications of environmental change.

#### **37. Sustainable Fisheries and Aquaculture**

- Explores environmental impacts of fisheries and aquaculture while developing sustainable practices for preserving marine resources and supporting food security.

#### **38. Climate Resilience in Agriculture**

- Focuses on strategies for strengthening agricultural resilience, including climate-smart farming, drought-resistant crops, water efficiency, and sustainable land management.

#### **39. International Environmental Diplomacy**

- Examines international negotiations, cooperation mechanisms, and diplomatic processes addressing global environmental and climate governance challenges.

#### **40. Sustainability Reporting and Environmental Audits**

- Introduces methods for evaluating and reporting sustainability performance, including carbon accounting, energy monitoring, environmental auditing, and compliance assessment practices.

### **OFFICIALLY RECOGNIZED ENVIRONMENTAL SCIENCE RELATED QUALIFICATIONS**

#### **Undergraduate Programs (BSc):**

##### **1. Ecology**

- Focuses on the study of ecosystems, biodiversity, and interactions between organisms and their environment, emphasizing ecological processes, conservation principles, environmental monitoring, and sustainable management of natural resources in the context of global environmental change

##### **2. Sustainable Development Management**

- Examines the principles and practices of managing sustainable development across sectors, integrating environmental protection, economic growth, and social inclusion while developing skills in sustainability planning, governance, and policy implementation.

##### **3. Land Reclamation Engineering**

- Studies engineering techniques and technologies for reclaiming, restoring, and improving degraded land for agricultural, ecological, and economic uses, with attention to climate change impacts, soil conservation, and sustainable land management.



#### **4. Marine and Ocean Floor Geology**

- Focuses on geological processes and structures of marine environments and the ocean floor, contributing to understanding sea-level change, marine resources, coastal resilience, and climate-related environmental dynamics.

#### **5. Aquatic Bioresources and Aquaculture**

- Examines the sustainable management of aquatic ecosystems and bioresources, including aquaculture systems, biodiversity conservation, fisheries sustainability, and climate-related pressures on water-based resources.

#### **6. Biotechnology**

- Focuses on the application of biological systems and technologies to address challenges in environmental sustainability, agriculture, resource efficiency, and health, including innovation in sustainable solutions.

#### **7. Plant Protection**

- Concentrates on protecting plants from pests, diseases, and environmental stresses through sustainable management approaches that support food security, biodiversity conservation, and resilient agricultural systems.

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### **Graduate Programs (MSc):**

#### **1. Environmental Chemistry**

- Investigates chemical processes affecting the environment, including pollutants, environmental contamination, and chemical interactions within ecosystems, with emphasis on sustainability, monitoring, and remediation approaches.

#### **2. Ecological Chemistry**

- Explores chemical interactions between living organisms and their environment, focusing on ecological processes, environmental balance, and sustainable solutions to environmental challenges.

#### **3. Ecological Chemical Monitoring**

- Focuses on methods for monitoring and assessing chemical substances in the environment, supporting ecosystem health evaluation, pollution control, and evidence-based environmental management.

#### **4. Environmental Protection Methods and Restoration**

- Examines techniques for protecting and restoring degraded ecosystems, including land rehabilitation, pollution reduction, habitat restoration, and sustainable environmental recovery strategies.

#### **5. Environmental Protection in Agriculture**

- Focuses on environmental protection approaches in agriculture, including soil conservation, water management, pollution prevention, and sustainable agricultural production systems.

#### **6. Biodiversity and Environmental Protection**





- Examines biodiversity conservation, ecosystem management, and environmental protection strategies, emphasizing policy, sustainability, and responses to ecological threats.

#### **7. Bioecology**

- Studies ecological interactions at the biological level, focusing on species conservation, ecosystem functioning, and adaptation to environmental and climate-related changes.

#### **8. Soil Ecological Monitoring and Protection**

- Focuses on assessing soil health, monitoring ecological conditions, and applying conservation strategies to protect soil as a critical resource for ecosystems and sustainable agriculture.

#### **9. Environmental Management and Biological Monitoring**

- Provides students with knowledge and practical skills to manage environmental resources and use biological indicators to assess ecosystem health and support sustainability decision-making.

#### **10. Water Bioresources**

- Examines the sustainable management and conservation of freshwater and marine bioresources, addressing ecosystem protection, water security, and climate-related impacts on aquatic environments.

#### **11. Climate Change and Sustainable Development**

- Examines the scientific foundations of climate change, its environmental and socio-economic impacts, and strategies for mitigation and adaptation, while integrating climate action with sustainable development policy and practice.

### **Description:**

Baku State University (BSU) demonstrates a strong institutional commitment to sustainable development by integrating sustainability principles across its academic portfolio. The University currently offers 280 sustainability-related study programs at undergraduate, master's, and doctoral levels. These programs incorporate environmental, social, economic, and governance (ESG) dimensions of sustainability, ensuring that graduates possess the knowledge and competencies needed to address contemporary global and local challenges.

Sustainability is embedded in both specialized degree programs and interdisciplinary curricula. Academic offerings span a wide range of disciplines, including environmental sciences, ecology, renewable energy, climate change, sustainable chemistry, green technologies, agriculture, economics, law, public policy, education, public health, engineering, urban planning, biodiversity conservation, water resource management, circular economy, sustainable business, and the United Nations Sustainable Development Goals (SDGs).

The integration of sustainability is supported through:

- Dedicated sustainability-focused degree programs and specializations.





- Sustainability-related compulsory and elective courses across faculties.
- Interdisciplinary teaching that combines scientific, technological, social, and economic perspectives.
- Research-based learning addressing real-world sustainability challenges.
- Fieldwork, laboratory activities, community engagement, and industry collaboration.
- Alignment of learning outcomes with national development priorities and the SDGs.

Total number of courses with sustainability embedded for courses running: 280. These courses provide a comprehensive foundation in climate science, sustainability, and environmental protection. They cover key areas such as climate change mitigation and adaptation, renewable energy, environmental policy and law, biodiversity conservation, sustainable agriculture, water and energy management, and environmental communication. Students develop both scientific knowledge and practical skills to analyze, manage, and address environmental challenges at local, regional, and global levels.

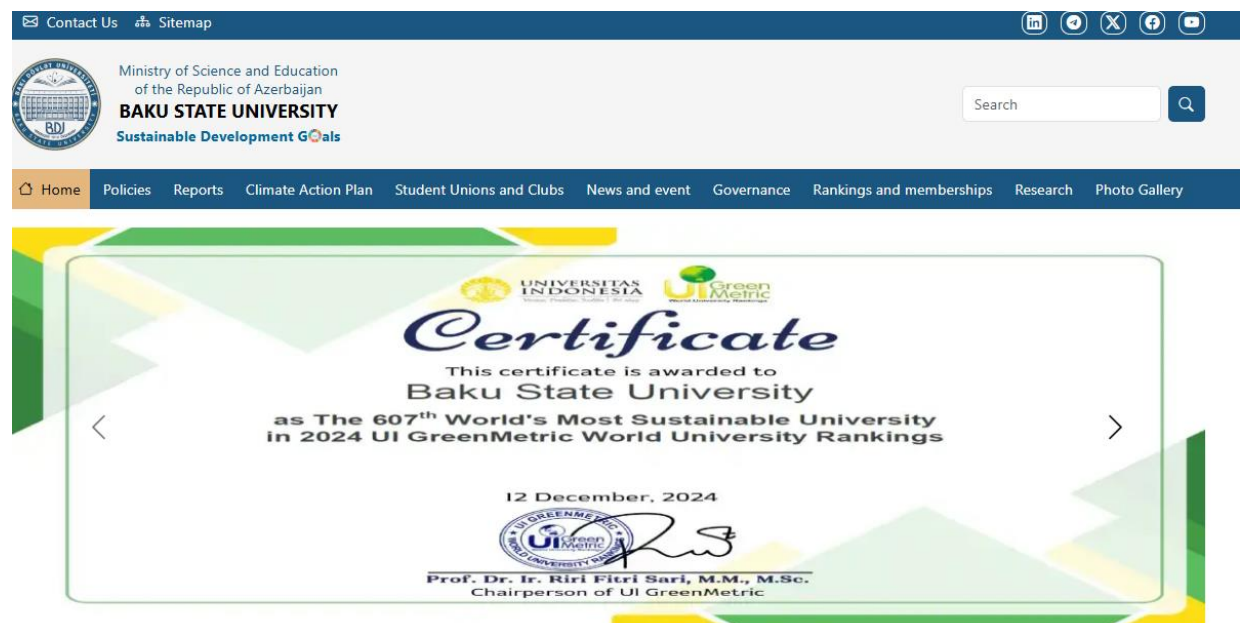
#### **Additional links:**

- Demonstrates BSU's expansion of sustainability-oriented education through a new City Cadastre specialization supporting urban planning, smart city development, and environmental management.  
<http://sdg.bsu.edu.az/news/bsu-will-train-specialists-in-the-city-cadastre-specialization-for-the-2024-2025-academic-year>
- Highlights curriculum innovation through a new specialization in Food Product Expertise and Marketing aimed at strengthening food safety, sustainability, and professional capacity in food systems.  
<http://sdg.bsu.edu.az/news/new-specialization-in-food-product-expertise-and-marketing-at-bsu>
- Showcases research capacity development through scientific study of plant micromorphology contributing to biodiversity knowledge and sustainability-related research outputs.  
<http://sdg.bsu.edu.az/news/the-micromorphology-of-different-types-of-plants-is-studied-at-bsu>
- Introduces a new Agricultural Insurance course that strengthens student competencies in climate risk management, sustainable agriculture, and applied professional training.  
<https://sdg.bsu.edu.az/news/teaching-of-the-agricultural-insurance-course-launched-at-bsu>
- Demonstrates curriculum innovation through the Environmental Engineering specialization, preparing students with technical skills in environmental protection, resource management, and sustainability solutions.  
<https://sdg.bsu.edu.az/news/new-specialization-at-bsu-environmental-engineering>
- Highlights a capacity-building training series that supports the integration of Sustainable Development Goals into teaching and research through staff and academic engagement.  
<https://sdg.bsu.edu.az/news/a-series-of-trainings-on-the-integration-of-sdg-into-education-and-research-continues-at-bsu>





➤ **BSU Sustainability Framework, Policies, Reports and Institutional Commitments**



- The official SDG portal of BSU provides comprehensive information on the university's sustainability initiatives, activities, and progress.  
<http://sdg.bsu.edu.az/>
- A mandatory training on environmental sustainability was conducted for BSU staff and students to promote sustainable practices across the university.  
<https://sdg.bsu.edu.az/news/dedicated-mandatory-training-on-environmental-sustainability-for-staff-and-students>
- This page outlines BSU's institutional policies supporting the implementation of Sustainable Development Goals.  
<http://sdg.bsu.edu.az/university-policies>
- The SDG Reports section presents BSU's documented progress and achievements in advancing sustainable development goals.  
<https://sdg.bsu.edu.az/sdg-reports>
- The Research Center page highlights BSU's scientific activities and research contributions related to sustainability.  
<https://sdg.bsu.edu.az/research-center>
- This page provides a collection of all SDG-related news and activities organized at BSU.  
<https://sdg.bsu.edu.az/allnews>
- This section presents BSU's commitment and strategic approach to implementing the Sustainable Development Goals.  
<http://sdg.bsu.edu.az/bsu%60s-commitment-to-sdgs>
- The Climate Action Plan outlines BSU's strategies and measures to address climate change and reduce environmental impact.  
<http://sdg.bsu.edu.az/climate-action-plan-action>



- The SDG Annual Progress Report 2025 summarizes BSU's yearly achievements and initiatives in sustainability.  
<https://sdg.bsu.edu.az/sdg-annual-progress-report-2025>
- This document provides a detailed overview of BSU's 2025 sustainability progress, including data, activities, and outcomes.  
<https://sdg.bsu.edu.az/uploads/files/ANNUAL%20PROGRESS%20REPORT%202025.pdf>
- Provides a consolidated institutional policy framework demonstrating BSU's governance mechanisms supporting sustainability, ethics, inclusion, and SDG implementation.  
<http://sdg.bsu.edu.az/policies-in-one-document>
- Demonstrates how SDGs are integrated into BSU curricula, qualifications, and academic programs through course-based contributions to sustainable development.  
<http://sdg.bsu.edu.az/academic-contribution-to-sdgs>
- Presents evidence of SDG-related credited courses that build student competencies in sustainability and support education-research integration.  
<https://sdg.bsu.edu.az/uploads/files/SDG%20Related%20Courses.pdf>
- Serves as a repository of institutional news and documented activities demonstrating ongoing SDG-related education, research, and community engagement initiatives.  
<http://sdg.bsu.edu.az/allnews>
- Highlights BSU's strategic commitment to advancing the Sustainable Development Goals through policy development, academic engagement, partnerships, and institutional action.  
<http://sdg.bsu.edu.az/bsu%60s-commitment-to-sdgs>
- This report highlights BSU's initiatives and contributions to achieving SDG 4 on quality education.  
<http://sdg.bsu.edu.az/report-on-sdg-4-quality-education>
- This report outlines BSU's actions and research related to SDG 6 on clean water and sanitation.  
<https://sdg.bsu.edu.az/report-on-sdg-6-clean-water-and-sanitation>
- This report presents BSU's efforts toward SDG 7 on affordable and clean energy.  
<https://sdg.bsu.edu.az/report-on-sdg-7-affordable-and-clean-energy>
- This report presents Baku State University's policies, programs, research, and partnerships supporting decent work, fair employment, entrepreneurship, skills development, labor rights, and sustainable economic growth in alignment with SDG 8.  
<https://sdg.bsu.edu.az/report-on-sdg-8-decent-work-and-economic-growth>
- This report presents Baku State University's policies, research, innovation activities, industry partnerships, and infrastructure initiatives that support sustainable industrialization, technological innovation, entrepreneurship, and resilient infrastructure development in alignment with SDG 9.  
<https://sdg.bsu.edu.az/report-on-sdg-9-industry-innovation>
- This report showcases BSU's activities supporting SDG 11 on sustainable cities and communities.  
<https://sdg.bsu.edu.az/report-on-sdg-11-sustainable-cities>
- This report details BSU's initiatives and impact related to SDG 13 on climate action.  
<https://sdg.bsu.edu.az/report-on-sdg-13-climate-action>
- This report presents Baku State University's policies, practices, research, and community initiatives promoting responsible consumption and production, including sustainable



procurement, waste reduction, recycling, resource efficiency, and environmental awareness aligned with SDG 12

<https://sdg.bsu.edu.az/report-on-sdg-12>

- This report highlights BSU's contributions to SDG 15 on protecting terrestrial ecosystems and biodiversity.

<https://sdg.bsu.edu.az/report-on-sdg-15-life-on-land>

- This report presents BSU's collaborations and partnerships with national and international institutions to support the implementation of the Sustainable Development Goals.

<https://sdg.bsu.edu.az/report-on-sdg-17-partnership-for-the-goals>

### ❖ **Memberships & institutional networks**

- ❖ BSU has become a member of the CANIE network to strengthen international cooperation in addressing climate change in higher education.  
<http://sdg.bsu.edu.az/canie-membership>
- ❖ BSU was selected as a full member of the Global University Network for Innovation to enhance its global academic collaboration and sustainability efforts.  
<http://sdg.bsu.edu.az/news/bsu-has-been-selected-as-a-full-member-of-the-global-university-network-for-innovation>
- ❖ BSU joined the International Sustainable Campus Network to support and develop sustainable practices in higher education institutions.  
<http://sdg.bsu.edu.az/news/bsu-joins-the-international-sustainable-campus-network>
- ❖ BSU became a member of AASHE to strengthen its commitment to sustainability in higher education through international cooperation.  
<http://sdg.bsu.edu.az/aashe-membership>
- ❖ BSU joined the CANIE global academic network to support collaborative efforts in combating climate change.  
<http://sdg.bsu.edu.az/news/bsu-has-joined-the-global-academic-network-canie-to-combat-climate-change>
- ❖ BSU became a member of WAITRO to enhance international research and innovation cooperation in science and technology.  
<http://sdg.bsu.edu.az/waitro-membership>
- ❖ BSU became a member of the Global University Network for Innovation (GUNI) to strengthen its engagement in international collaboration and sustainable development initiatives in higher education.  
<http://sdg.bsu.edu.az/guni-membership>





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# CANIE

climate action network



WAITRO





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