EDUCATIONAL PROGRAMS ON ENVIRONMENTAL SUSTAINABILITY

Sumgayit State University offers the following programs (majors) on **environmental sustainability** which are linked to European Credit Transfer and Accumulation System (ECTS) to prepare students for careers in the field and empower them to make a positive impact on the planet:

-at undergraduate level: **Environmental engineering, Ecology;**
-at graduate level: **Environmental protection engineering and efficient use of natural resources.**

№	Course title	Major	ECTS credits	SDG
1	Biosphere and its protection	Ecology	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
2	Basics of earth science	Ecology	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
3	General ecology	Ecology	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
4	Geographical ecology	Ecology	4	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
5	Soil science	Ecology	4	SDG 13: Climate action; SDG 15: Life on land
6	Ecological research methods	Ecology	5	SDG 13: Climate action; SDG 15: Life on land
7	Landscape science and landscape ecology	Ecology	5	SDG 13: Climate action; SDG 15: Life on land; SDG 11: Sustainable cities and communities
8	Air and water quality, pollution and protection	Ecology	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land; SDG 14: Life below water
9	Environmental law	Ecology	4	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
10	Industrial ecology	Ecology	4	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land

11	Environmental chemistry	Ecology	6	SDG 13: Climate action; SDG 15: Life on land
12	Forestry	Ecology	6	SDG 13: Climate action; SDG 15: Life on land
13	Environmental monitoring	Ecology	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
14	Conservation of biodiversity	Ecology	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
15	Sustainable management of natural resource	Ecology	4	SDG 13: Climate action; SDG 15: Life on land
16	Ecotoxicology	Ecology	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
17	Soil ecology and assessment	Ecology	6	SDG 13: Climate action; SDG 15: Life on land
18	Physical basis of remote sensing	Ecology	5	SDG 13: Climate action; SDG 15: Life on land
19	Radioecology	Ecology	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
20	Economics of nature use and forecasting	Ecology	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
21	Hydrology	Ecology	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
22	Animal ecology	Ecology	5	SDG 13: Climate action; SDG 15: Life on land
23	Human ecology and sustainable development	Ecology	5	SDG 13: Climate action; SDG 15: Life on land
24	Ecological cartography and geographic information systems	Ecology	8	SDG 13: Climate action; SDG 15: Life on land; SDG 11: Sustainable cities and communities
25	Organic chemistry and environmental safety	Ecology	6	SDG 13: Climate action; SDG 15: Life on land
26	Environmental education and upbringing in environmental protection	Ecology	6	SDG 13: Climate action; SDG 15: Life on land; SDG 4: Quality education
27	Ecological properties and protection of the atmosphere	Ecology	5	SDG 13: Climate action; SDG 15: Life on land

28	Chemical foundations of life activity;	Ecology	6	SDG 13: Climate action
29	Chemical analysis methods in environmental protection	Ecology	6	SDG 13: Climate action; SDG 15: Life on land
30	Physical and chemical foundations of environmental chemistry	Ecology	6	SDG 13: Climate action; SDG 15: Life on land
31	Ecological expertise	Ecology	5	SDG 13: Climate action; SDG 15: Life on land
32	Management of environmental activity	Ecology	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
33	Technology for obtaining alternative fuels	Ecology	5	SDG 7: Affordable and clean energy; SDG 13: Climate action; SDG 15: Life on land
34	Chemistry of the environment	Ecology	5	SDG 13: Climate action; SDG 15: Life on land
35	Ecological foundations of nature use	Ecology	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
36	Integrated use and protection of water resources	Ecology	5	SDG 6: Clean water and sanitation; SDG 13: Climate action;
37	Environmental engineering	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
38	Basics of environmental chemistry and toxicology	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
39	Physical basis of remote sensing	Environmental Engineering	7	SDG 13: Climate action; SDG 15: Life on land
40	Hydrology	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action
41	General ecology	Environmental Engineering	7	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
42	Environmental impact assessment	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
43	Modeling of ecological systems	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land

44	Environmental monitoring	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
45	Environmental management (ecological management)	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
46	Waste-free production processes and waste recycling	Environmental Engineering	6	SDG 13: Climate action; SDG 15: Life on land; SDG 12: Responsible consumption and production
47	Integrated management of water resources	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action
48	Climate changes and global warming	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
49	Land reclamation, recultivation and ecological foundations	Environmental Engineering	6	SDG 13: Climate action; SDG 15: Life on land
50	Economics of nature use and forecasting	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
51	Radioecology	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
52	Basics of environmental expertise and design	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
53	Technological bases of environmental protection	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
54	Safety of life activities	Environmental Engineering	5	SDG 8: Decent work and economic growth
55	Wastewater treatment	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
56	Ecology of the biosphere	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
57	Environmental law	Environmental Engineering	6	SDG 13: Climate action; SDG 15: Life on land

58	Chemistry of the environment.	Environmental Engineering	5	SDG 13: Climate action; SDG 15: Life on land
59	Ecological foundations of nature use	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
60	Natural resources and their efficient use	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
61	Sources of environmental pollution	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
62	Atmospheric physics	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
63	Technical foundations of environmental protection	Environmental Engineering	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
64	Atmospheric protection	Environmental Engineering	5	SDG 13: Climate action
65	Technology of obtaining alternative fuels	Environmental Engineering	5	SDG 7: Affordable and clean energy; SDG 13: Climate action; SDG 15: Life on land
66	Renewable energy resources and their efficient use	Environmental Engineering	5	SDG 7: Affordable and clean energy; SDG 13: Climate action; SDG 15: Life on land
67	Labor protection	Environmental Engineering	5	SDG 8: Decent work and economic growth
68	Social ecology	Environmental Engineering	6	SDG 13: Climate action; SDG 15: Life on land
69	Integrated use and protection of water resources	Environmental Engineering	5	SDG 6: Clean water and sanitation; SDG 13: Climate action;
70	Alternative and renewable energy sources	Environmental protection engineering and efficient use of natural resources	8	SDG 7: Affordable and clean energy; SDG 13: Climate action
71	Protection of the atmosphere from industrial waste	Environmental protection engineering and efficient use of natural resources	8	SDG 13: Climate action; SDG 15: Life on land

72	Waste-free production processes and waste recycling	Environmental protection engineering and efficient use of natural resources	8	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
73	Ecology of the oil and gas industry	Environmental protection engineering and efficient use of natural resources	8	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 7: Affordable and clean energy
74	Fundamentals of life and process safety in industry	Environmental protection engineering and efficient use of natural resources	4	SDG 8: Decent work and economic growth
75	Energy geopolitics	Environmental protection engineering and efficient use of natural resources	1	SDG 13: Climate action; SDG 7: Affordable and clean energy
76	Design and calculations of ecological engineering facilities	Environmental protection engineering and efficient use of natural resources	8	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
77	Halogen organic compounds and dioxin problem	Environmental protection engineering and efficient use of natural resources	8	SDG 13: Climate action;
78	Environmental protection engineering and efficient use of natural resources	Environmental protection engineering and efficient use of natural resources	6	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
79	History and methodology of environmental engineering	Environmental protection engineering and efficient use of natural resources	2	SDG 6: Clean water and sanitation; SDG 13: Climate action
80	Hazardous industrial and household waste	Environmental protection engineering and efficient use of natural resources	8	SDG 6: Clean water and sanitation; SDG 13: Climate action; SDG 15: Life on land
81	Water resources and their integrated use	Environmental protection engineering and efficient use of natural resources	8	SDG 6: Clean water and sanitation; SDG 13: Climate action
82	Analysis of industrial facilities	Environmental protection engineering and efficient use of natural resources	8	SDG 13: Climate action; SDG 9: Industry, innovation and infrastructure
83	Modern problems of ecological engineering	Environmental protection engineering and efficient use of natural resources	4	SDG 13: Climate action; SDG 15: Life on land