

Environmental and Sustainability Courses

Uzbekistan State World Languages University (UzSWLU)

Academic Year 2024 | Curriculum Integration Report

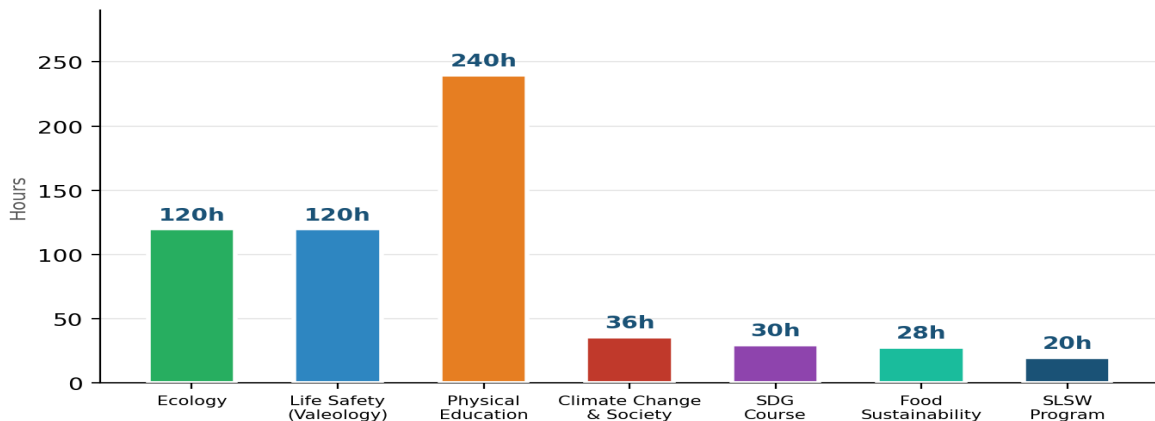
1. Overview

Uzbekistan State World Languages University (UzSWLU) is committed to integrating environmental sustainability into its core educational framework. While UzSWLU is primarily a languages university, it ensures that **all students across all undergraduate and graduate programs** receive comprehensive education on environmental and sustainability topics through mandatory credit-bearing courses. These courses are delivered by the **Department of Ecology and Green Resources** (Ekologiya va yashil resurslar kafedras) and embedded within the national curriculum framework.

In 2024, the university expanded its sustainability curriculum by introducing three new specialized courses — **Climate Change and Society, Sustainable Development Goals (SDG), and Food Sustainability** — bringing the total sustainability education to **7 courses covering 594 academic hours**. This ensures that every UzSWLU graduate possesses fundamental knowledge of ecological principles, climate science, sustainable development, and the UN SDGs.

Total Courses	Total Academic Hours	Students Enrolled	Delivering Department
7	594 hours	12,118+	Dept. of Ecology & Green Resources uzswlu.uz/en/chair/ department-of-ecology-and-green-resources
(4 core + 3 specialized)	Per student curriculum	All UG & PG students	

Academic Hours per Course



2. Core Mandatory Courses

The following courses are **mandatory for all undergraduate students** across all faculties. They are part of the official national curriculum, credit-bearing, and delivered by the **Department of Ecology and Green Resources**.

2.1 Ecology (Ekologiya)

Duration	Level	Assessment	Credits	Delivered by
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120 hours	UG (all programs)	Exam + Practical	Credit-bearing	Dept. of Ecology & Green Resources
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Topics: Fundamentals of ecology and environmental science; Biodiversity and ecosystem conservation; Climate change causes, impacts and mitigation; Water resource management; Air and soil pollution; Waste management and recycling; Environmental legislation of Uzbekistan; The Aral Sea crisis; Sustainable development principles and UN SDGs.

2.2 Life Safety / Valeology (Hayot Faoliyati Xavfsizligi)

Duration	Level	Assessment	Credits	Delivered by
120 hours	UG (all programs)	Exam + Practical	Credit-bearing	Dept. of Ecology & Green Resources

Topics: Environmental health and public health; Natural and man-made disaster preparedness; Radiation safety and chemical hazards; Occupational health; Impact of environmental degradation on human health; First aid and emergency response; Water and food safety; Sustainable living practices.

2.3 Physical Education (Jismoniy Madaniyat)

Duration	Level	Assessment	Credits	Delivered by
240 hours	UG (all programs)	Practical assessment	Credit-bearing	Dept. of Ecology & Green Resources

Topics: Physical health and active lifestyle promotion; Outdoor education and nature-based activities; Sustainable wellness and stress management; Health implications of environmental factors; Team sports, fitness and holistic well-being.

3. Specialized Sustainability Courses (Introduced 2024)

In 2024, UzSWLU expanded its sustainability curriculum by introducing three new specialized courses, all delivered by the **Department of Ecology and Green Resources**. These courses complement the existing core curriculum and provide deeper knowledge in critical sustainability areas.

3.1 Climate Change and Society (Iqlim O'zgarishi va Jamiyat)

Duration	Level	Assessment	Credits	Delivered by
36 hours (18 lecture + 18 seminar)	UG (all programs)	Exam + Essay	Credit-bearing	Dept. of Ecology & Green Resources

Topics: Scientific foundations of climate change and greenhouse gas emissions; Paris Agreement and international climate policy; Impact of climate change on Central Asia and Uzbekistan; The Aral Sea crisis as a case study; Climate adaptation and resilience strategies; Role of language and communication in climate awareness; Carbon footprint measurement and reduction; Uzbekistan's 2030 Green Economy transition strategy; Youth activism and climate justice.

3.2 Sustainable Development Goals (Barqaror Rivojlanish Maqsadlari)

Duration	Level	Assessment	Credits	Delivered by
30 hours (16 lecture + 14 seminar)	UG (all programs)	Group project + Presentation	Credit-bearing	Dept. of Ecology & Green Resources

Topics: History and framework of the 17 UN Sustainable Development Goals; SDG indicators, targets and monitoring mechanisms; Uzbekistan's national SDG implementation strategy; SDG 4 (Quality Education) and its role in sustainability transformation; SDG 13 (Climate Action) and SDG 15 (Life on Land) in the Central Asian context; Interconnections between SDGs — poverty, inequality and environment; Multilingual communication for global sustainability advocacy; Student-led SDG awareness projects.

3.3 Food Sustainability (Oziq-ovqat Barqarorligi)

Duration	Level	Assessment	Credits	Delivered by
28 hours (14 lecture + 14 seminar)	UG (all programs)	Case study + Group report	Credit-bearing	Dept. of Ecology & Green Resources

Topics: Global food systems and environmental impact; Sustainable agriculture and organic farming; Food security challenges in Uzbekistan and Central Asia; Water-food-energy nexus; Food waste reduction strategies and circular food economy; Impact of climate change on crop production; Healthy and sustainable diets; Local food systems and traditional agricultural knowledge; SDG 2 (Zero Hunger) and SDG 12 (Responsible Consumption and Production).

4. Annual Training Program

4.1 "Sustainable Language, Sustainable World" (Barqaror Til, Barqaror Dunyo)

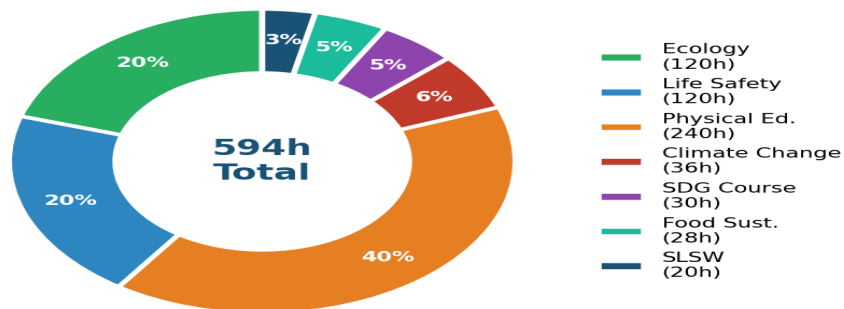
Duration	Participants	Assessment	Format	Delivered by
20 hours	All students & staff (13,247 in 2024)	Entry/Exit test + Green project	In-person + Online	Dept. of Ecology & Green Resources

Topics: UN SDGs overview; Climate change awareness; Energy and water conservation; Waste management (3R principles); Uzbekistan's Green Economy Strategy 2030; Campus sustainability and UI GreenMetric; Integration of sustainability into language learning. In 2024, average improvement between entry and exit tests was **+15.5%**.

5. Complete Course Summary

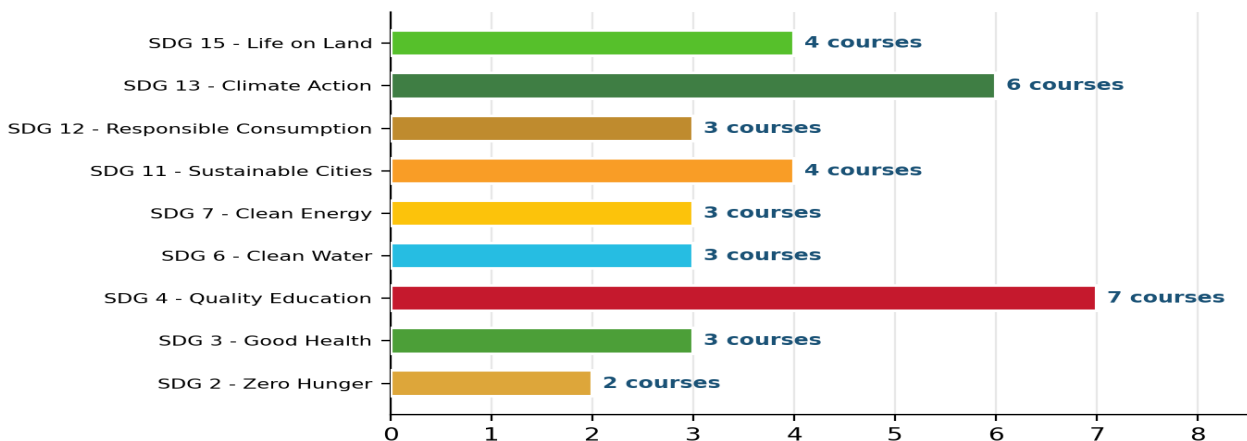
#	Course	Hours	Type	Students (2024)	Assessment	SDG Alignment
1	Ecology	120	Mandatory (Core)	12,118	Exam + Practical	6, 13, 15
2	Life Safety (Valeology)	120	Mandatory (Core)	12,118	Exam + Practical	3, 11, 13
3	Physical Education	240	Mandatory (Core)	12,118	Practical	3
4	Climate Change & Society	36	Mandatory (Specialized)	12,118	Exam + Essay	7, 13
5	SDG Course	30	Mandatory (Specialized)	12,118	Project + Presentation	4, 13, 15, 17
6	Food Sustainability	28	Mandatory (Specialized)	12,118	Case study + Report	2, 12, 15
7	SLSW Program	20	Mandatory (Annual)	13,247	Entry/Exit Test + Project	4, 6, 7, 11, 13, 15
TOTAL		594				9 SDGs

Distribution of Sustainability Course Hours



6. Alignment with UN Sustainable Development Goals

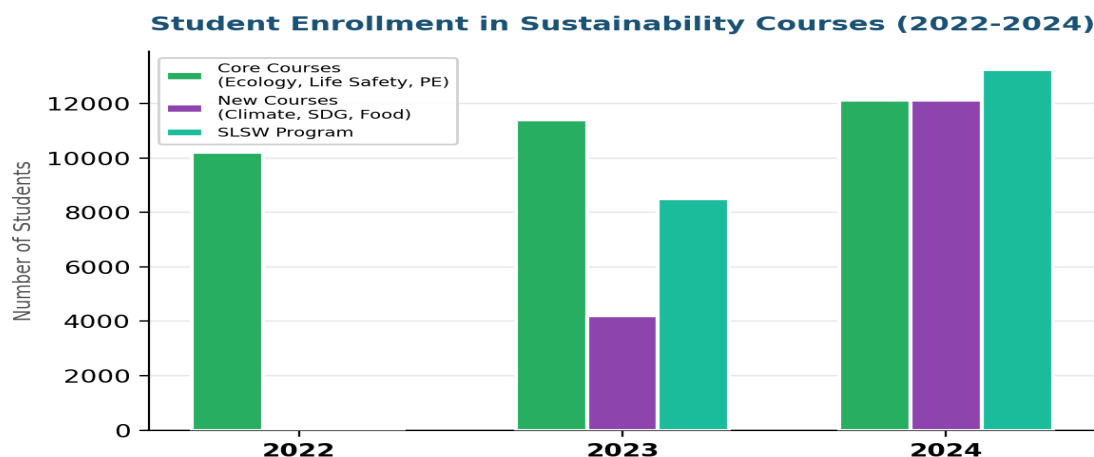
Course Alignment with UN Sustainable Development Goals



SDG	Goal	Contributing Courses
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SDG 2	Zero Hunger	Food Sustainability
SDG 3	Good Health & Well-being	Life Safety, Physical Education
SDG 4	Quality Education	All courses (integrated sustainability education)
SDG 6	Clean Water & Sanitation	Ecology, SLSW
SDG 7	Affordable & Clean Energy	Climate Change & Society, Ecology, SLSW
SDG 11	Sustainable Cities	Life Safety, Ecology, Climate Change & Society, SLSW
SDG 12	Responsible Consumption	Food Sustainability, Ecology, SLSW
SDG 13	Climate Action	Ecology, Life Safety, Climate Change & Society, SDG Course, SLSW
SDG 15	Life on Land	Ecology, SDG Course, Food Sustainability, SLSW

7. Student Participation Trends (2022-2024)



Student enrollment in sustainability courses has grown steadily. In 2024, three new specialized courses were introduced, achieving full university-wide implementation with 12,118 student enrollments. The "Sustainable Language, Sustainable World" program reached 13,247 participants (12,118 students + 1,129 staff members).

8. Key Outcomes and Impact

Indicator	2023	2024	Change
Total sustainability courses offered	4	7	+75%
Total academic hours per student	500	594	+18.8%
Students completing core courses	11,400	12,118	+6.3%
Students in new specialized courses	0	12,118	New in 2024
SLSW program participants	8,500	13,247	+55.8%
Average sustainability literacy score	71.2%	76.4%	+5.2 pp
Entry-to-exit test improvement	+12.8%	+15.5%	+2.7 pp
Green project presentations delivered	1,850	3,420	+84.9%
SDGs covered by curriculum	7	9	+28.6%

9. Conclusion

UzSWLU demonstrates a strong and expanding commitment to environmental sustainability education. With the introduction of three new specialized courses in 2024, the university now offers **7 sustainability-related courses totaling 594 academic hours**, all delivered by the Department of Ecology and Green Resources. The curriculum covers 9 UN Sustainable Development Goals and ensures that 100% of students receive comprehensive education on climate science, environmental protection, food sustainability, and sustainable development principles.

The university's integrated approach — embedding sustainability across all academic programs rather than limiting it to specialized degrees — reflects a holistic commitment to producing environmentally conscious graduates equipped to contribute to sustainable development. This model aligns with international best practices in Education for Sustainable Development (ESD) as recommended by UNESCO.

Department: uzswlu.uz/en/chair/department-of-ecology-and-green-resources

Evidence: uzswlu.uz/en/education-and-sustainability

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