NAVOI STATE UNIVERSITY

IJE1306 SOCIAL ECOLOGY — COURSE SYLLABUS

Faculty of Natural Sciences & Medicine | Department of Biology | Program: 60520200 Ecology & Environmental Protection

COURSE PASSPORT & ACADEMIC METADATA

Course Title: Social Ecology

Course Code: IJE1306

Course Type: Mandatory

Field of Study: 500000 Natural Sciences

Field: 520000 Environment

Program: 60520200 Ecology & Environmental Protection

Academic Year: 2026–2027 |

Semester: III | Form of Education: Full-time

Language: Uzbek

Total Workload Allocation: 180 Hours Total (72 Contact Hours: Lectures/Seminars + 108 Independent Study) |

Credits: 6 ECTS

Aligned UN SDGs: SDG 3 (Good Health & Well-being), SDG 10 (Reduced Inequalities), SDG 16 (Peace, Justice & Strong Institutions)



1. Course Description & Socio-Environmental Framework

Social Ecology examines the complex legal, social, economic, and political interactions between human society and the natural environment. The curriculum covers human-nature co-evolution, ecopathology, environmental toxicology, environmental epidemiology, environmental law, eco-movements, environmental ethics, and sustainable socio-ecological governance.

In alignment with SDG 3, 10, and 16, students analyze environmental justice, public health impacts of pollution, eco-sociological research methods, and national eco-policy integration.

2. Course Aims & Socio-Ecological Competencies

Course Aim: To equip students with advanced theoretical knowledge and practical analytical tools to evaluate society-nature relationships, environmental legal frameworks, public health epidemiology, and eco-sociological movement dynamics.

- Socio-Ecological Research Mastery: Apply sociological and ecological methods to analyze human adaptation, ecopathologies, and environmental health risks.
- Policy & Legal Competency: Interpret international treaties (Rio Declaration, Kyoto Protocol, Paris Agreement) and national environmental laws in Uzbekistan.
- Public Health & Epidemiology Skills: Evaluate chemical toxicity effects, biogeochemical provinces (Vernadsky/Vinogradov), and epidemic/pandemic socio-environmental drivers.
- Advocacy & Cultural Leadership: Cultivate environmental ethics, eco-consciousness, sustainable consumption habits, and civic eco-activism.

3. Prerequisites

Prerequisites: Fundamentals of Ecology, Biology, Geography, Sociology, Fundamentals of Law.

4. Course Structure & Workload Allocation

Activity Type	Curriculum & Socio-Legal Focus	Workload Allocation
Lectures	Society-Nature Co-evolution, Law & Eco-Sociology	Contact Hours
Seminars & Practical	Case Discussions, Legal Audits & Policy Debates	Contact Hours
Independent Study	Analytical Reports, Media Reviews & Field Studies	108 Hours
Total Workload	Comprehensive 6 ECTS Academic Module	180 Hours Total

5. Detailed Course Curriculum Outline

5.1 Lecture Syllabus Outline

• **L1: Subject Matter, Aims & Methods of Social Ecology:** Object, scope, interdisciplinary nature, Commoner and Reimers' socio-ecological laws.

• **L2: History of Human-Nature Interactions:** Historical stages, industrial revolution impacts, Radkau and Gorelov's periodization of environmental history.

• **L3: Conceptualizing Ecological Crises & Disasters:** Ecosystem succession, local/regional/global crises, pre-industrial vs. industrial disasters (E. Jones classification).

• **L4: Human & Environment: Ecopathology, Toxicology & Epidemiology:** Public health, endogenous/exogenous health drivers, pandemics, biogeochemical provinces, chemophobia.

• **L5: International Cooperation & Political Economy of Environment:** Environmental law, Rio Declaration, Agenda 21, Kyoto/Paris agreements, Uzbekistan's eco-policy.

• **L6: Contemporary Ecological Movements & Organizations:** History of eco-activism, typology of movements (Bookchin's Social Ecology, neo-Luddism, NGOs), Uzbekistan eco-movements.

• **L7: Ecological Consciousness & Environmental Culture:** Components of eco-culture, environmental ethics, eco-fashion, eco-neologisms, and behavioral change.

• **L8: Sustainable Development: Concepts & Principles:** Evolution of sustainability models, indicators, critique of sustainable growth, Water-Energy-Food Nexus.

• **L9: Social-Ecological Monitoring & Expert Analysis:** Methods of socio-environmental control, environmental impact auditing, and future outlooks.

5.2 Practical & Seminar Discussion Outline

- Defining scope, aims, and position of Social Ecology among environmental sciences.
- Analyzing systems, methodologies, principles, and rules of Social Ecology.
- Evaluating national socio-environmental problems and formulation of mitigation strategies.
- Analyzing human adaptation mechanisms to environmental stressors and endemic diseases.
- Investigating environmental degradation impacts on public health in Uzbekistan.
- Applying environmental quality assessment methods to human epidemiological studies.
- Developing strategic directions for optimizing public health and environmental quality.

5.4 Independent Study & Analytical Projects

- Cinematic representations of future ecological disasters and societal collapse.
- Socio-environmental impacts of dietary transitions (Vegetarianism/Veganism analysis).
- Evaluating UN environmental protection programs and global governance.
- Green marketing, greenwashing, and socio-economic consequences.
- History and future outlooks of product packaging waste.
- Socio-environmental drivers of infectious disease outbreaks and pandemics.
- Analyzing social advertising campaigns for environmental and animal protection.
- Radical eco-movements: Biological terrorism vs. eco-activism outcomes.
- Social impacts of specific environmental pollution types (microplastics, heavy metals).
- Arthur Pigou's Theory of Externalities and environmental economics.
- Reflections of environmental crises in contemporary music and pop culture.
- Depiction of ecological crises in modern international cinema.
- Comparative socio-environmental stability analysis of Uzbekistan's regions.
- Case study analysis of major international eco-organizations and key achievements.

6. Recommended Literature & Information Sources

- Xaydarova X.N. Social Ecology (Study Guide). Tashkent: Book Media Plus, 2021.
- Sulaymanov I.O., Imirsinova A.A. Fundamentals of Ecology. Tashkent: Fan Ziyo, 2022.
- Gorelov A.A. Social Ecology (Textbook, 3rd Ed.). Moscow: Flinta, 2012.
- Novgorodtseva A.N. Social Ecology (Teaching Manual). Yekaterinburg: Ural Federal University, 2015.
- Yodgorova D.Sh. et al. Urban Ecology. Tashkent: Universitet, 2013.

OFFICIAL COURSE APPROVAL

Approved by the Dean of Natural Sciences & Medicine: PhD M.X. Shamuratov _____

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