Micro-Credential Template for GreenKG

Name of Micro-Credential Module *Insert concise and descriptive title* *"Green Economy" for Bachelor's Degree*	
MC-Module Identifier	*Assign a unique Identifier to the Module* Block No. 1, Group A, Elective Part
Issuing Body/ Person responsible	*Name of the higher education institution/ person responsible* Osh State University Eliza Zhunusalieva, doctoral student
EQF Level	*Specify the appropriate level according to European Qualifications Framework (EQF): Bachelor: EQF 6*
Mode of Delivery	*On-campus / Online / Hybrid*
Workload/ Credit Points (CP)	*Specify workload in CP (1 CP = 25–30 hours)* 2 credits (30 hours each)
Language of Instruction	*Language(s) used for instruction/ assessment: Kyrgyz, Russian, English* Language(s) of instruction and assessment: Kyrgyz, Russian, English Kyrgyz, Russian, gradually in English
Recommended prior Knowledge/ Admission Requirements	*Specify prior knowledge, qualifications, or experience* Please indicate the required knowledge, qualifications or experience Since this discipline is taught in the 1st year, the fundamental natural science concepts learned in the school curriculum (in biology, geography, social studies) are a sufficient basis for its mastery.
Target Group / Profile of Learners	*Specify intended audience (e.g., students majoring in …)* 520200 Biology 550100 Natural science education, as well as in the curricula of all areas
Intended Learning Outcomes (IOLs) (Intended Learning Outcomes, IOLs)	**Learning Outcomes** The student acquires a holistic understanding of the principles of green economy and sustainable development, as well as develops skills for environmentally oriented thinking and decision-making in the professional field. **Competencies** **Social and Personal Competence (SPC 1):** Demonstrates civic responsibility towards environmental issues, shows ethical and sustainable behavior oriented towards a healthy lifestyle and a respectful attitude to nature. **Instrumental Competence (IC 1):** Is able to apply appropriate methods and tools for collecting environmental information, its systematic analysis, and the assessment of ecological conditions. **General Professional Competence (GPC 1):**

	Has knowledge of the basic concepts in natural and social sciences related to ecology and sustainable development and is able to apply them to environmental analysis. **Professional Competence (PC 1):** Formed depending on the training profile and the specifics of the specialty.
Content of the Module / Syllabus	**Introduction, the concept of green economy of the Kyrgyz Republic.** Content, subject, and tasks of the green economy. Socio-economic situation in Kyrgyzstan. Current state of the environment and health of citizens of Kyrgyzstan. Concept of the Green Economy. Global initiatives for the development of Green Economy. Development of Green Economy in Kyrgyzstan. The concept of green economy in the Kyrgyz Republic. **Green Energy and Climate Change** Energy Resources of the Earth. Energy Sector of Kyrgyzstan. Paths to Sustainable Energy. Low Carbon Footprint in Energy. **Green Cities and Green Transport** Low Carbon and Renewable Energy. Types of Energy. Paths to Sustainable Energy **Green production** General information about green production. Environmental management. Environmental safety in production. Environmental audit. Green production technologies **Green industry and circular economy** Green industry and natural resources of Kyrgyzstan. Circular economy. Waste recycling: waste-free and low-waste technology. Industrial safety, introduction of green technologies in industry. Environmental impact assessment. **Biodiversity and Biosafety** Biological diversity of the Kyrgyz Republic. Biological safety. Biological methods of combating biodegrading species of animals and plants. National strategy for the conservation of biodiversity. Specially protected natural areas and the Red Book of the Kyrgyz Republic. **Principles of environmental, social and corporate governance (ESG).** 1. ESG principles. Implementation of environmental and social management principles for manufacturing companies. Principles of corporate governance. Concept, forms, functions and methods of environmental management. State environmental management
Teaching and Learning Methods	*Describe pedagogical approaches (e.g., case studies, seminars)* **Teaching Methods** • **Lectures** using multimedia technologies. • **Practical sessions** in the form of case studies, situation analysis, and project development. • **Independent student work (ISR, PIR)**: preparation of essays, presentations, reports, and the final project. **Forms of Assessment** • **Ongoing assessment**: evaluation of practical sessions, tests, essays. • **Intermediate assessment**: defense of presentations, case studies, and reports. **Final assessment**: development and defense of an environmental program project.

Learning Support/ Instruction Material	*Available support and resources* *(e.g., links to online educational material, mentoring, forums)* *Laboratory physical resources (purchased under the project):* *Express laboratory for water control NKV-1* *Ecotester 2 Nitrate Tester, Dosimeter* *Smoke meter META-01MP 0.1* *Multifunctional device for measuring air quality Thermal radiation radiometers "IR meter"* *Strong solar panel 1 set of PET* *Photo traps (Filin 300 4G LTE)* *Trotec SL400 - noise meter*
Assessment Methods and Criteria	*Methods and criteria for assessing learner performance.* • Current control: assessment of practical classes, tests, essays. • Intermediate control: defense of presentations, cases and reports. • Final control: development and defense of the environmental program project.
Type/ Format of Credential	*Certificate in the form of …* Micromodule in higher education institution