

# Micro-Credential Template for GreenKG

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| <b>Name of Micro-Credential Module</b> <i>Insert concise and descriptive title</i><br><i>Current environmental issues in Kyrgyzstan for master's degree</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MC-Module Identifier</b>                                                                                                                                 | <i>Assign a unique Identifier to the Module</i><br>Block No. M2, Group B, Elective Part                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Issuing Body/ Person responsible</b>                                                                                                                     | <i>Name of the higher education institution/ person responsible</i><br>Osh State University<br>Abdykaarov Abdimannap, Ph.D., Associate Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>EQF Level</b>                                                                                                                                            | <i>Specify the appropriate level according to European Qualifications Framework (EQF):</i> Master: EQF 7,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Mode of Delivery</b>                                                                                                                                     | <i>On-campus / Online / Hybrid</i><br>Full-time / Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Workload/ Credit Points (CP)</b>                                                                                                                         | <i>Specify workload in CP (1 CP = 25–30 hours)</i><br>3 credits (30 hours each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Language of Instruction</b>                                                                                                                              | <i>Language(s) used for instruction/ assessment:</i> Kyrgyz, Russian, English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Recommended prior Knowledge/ Admission Requirements</b>                                                                                                  | <i>Specify prior knowledge, qualifications, or experience</i><br>Since this discipline is taught in the first year, the basic scientific concepts acquired in the school curriculum (biology, geography, and social studies) are sufficient for successful                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Target Group / Profile of Learners</b>                                                                                                                   | <i>Specify intended audience (e.g., students majoring in ...)</i><br>550100 "Natural Science Education", 520200 Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Intended Learning Outcomes (IOLs)</b>                                                                                                                    | <i>List specific, measurable outcomes using action verbs (e.g., Upon completion of this micro-credential module the student is able to)</i><br>As a result of studying the discipline, the master's student will achieve the following learning outcomes (LO), corresponding to the expected results of mastering the educational program (ERMP) and the competencies specified for the discipline:<br><b>Competencies</b><br>PO 5. Understands global and regional environmental problems and the place of humanity in them; can conduct socio-ecological-economic analysis, predict and identify crisis situations; Natural science and ecology can influence the solution of global problems of humanity to achieve<br><b>Professional Competence (PC 1):</b><br>Knows the natural conditions of the region, its main resources, the region's ecosystems, the essence of modern environmental problems and the interaction of society and nature (PK-27). Possesses an ecological worldview and the skills to contribute to solving global challenges of humanity in order to achieve sustainable development (PC-28) (A). |

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| <b>Content of the Module / Syllabus</b>       | <p><i>Brief summary of content and key topics:</i></p> <p>Introduction to the discipline<br/> State of the problem of climate change in the Kyrgyz Republic.<br/> Recreational resources of Kyrgyzstan<br/> State of water resources of the Kyrgyz Republic<br/> Land resources of Kyrgyzstan and land use<br/> Forest resources and forest use<br/> Food Security in Kyrgyzstan and Measures for Its Sustainable Assurance<br/> Strategy of solid waste management in the Kyrgyz Republic<br/> Radioactive waste and pollution<br/> Fauna and flora of the Kyrgyz Republic<br/> Food safety.<br/> Environmental education and sustainable development</p> |
| <b>Teaching and Learning Methods</b>          | <p><i>Describe pedagogical approaches (e.g., case studies, seminars)</i></p> <p>Form of control: current control (tests, essays, reports), final exam.<br/> Teaching methods:</p> <ul style="list-style-type: none"> <li>• Lectures using multimedia technologies.</li> <li>• Practical classes in the form of cases, situation analysis and project development.</li> <li>• Independent work of students (ISS, IWS): preparation of essays, presentations, reports and final project.</li> </ul>                                                                                                                                                          |
| <b>Learning Support/ Instruction Material</b> | <p><i>Available support and resources (e.g., links to online educational material, mentoring, forums)</i></p> <p><i>Laboratory physical resources (purchased under the project):</i><br/> Express laboratory for water control NKV-1<br/> Ecotester 2 Nitrate Tester, Dosimeter<br/> Smoke meter META-01MP 0.1<br/> Multifunctional device for measuring air quality Thermal radiation radiometers "IR meter"<br/> Strong solar panel 1 set of PET<br/> Photo traps (Filin 300 4G LTE)<br/> Trotec SL400 - noise meter</p>                                                                                                                                 |
| <b>Assessment Methods and Criteria</b>        | <p><i>Methods and criteria for assessing learner performance.</i></p> <p>Forms of control:</p> <ul style="list-style-type: none"> <li>• Current control: assessment of practical classes, tests, essays.</li> <li>• Intermediate control: defense of presentations, cases and reports.</li> <li>• Final control: development and defense of the environmental program project.</li> </ul>                                                                                                                                                                                                                                                                  |
| <b>Type/ Format of Credential</b>             | <p><i>Certificate in the form of ...</i></p> <p>Micromodule in the university</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

