Academic course description – Example

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| BACHELOR ‘S PROGRAMME3RD YEAR OF STUDY, 1ST SEMESTER |

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| **Course title** | | **ENVIRONMENTAL GEOGRAPHY** |
| Course code | | JT3502 |
| Course type | | full attendance/ tutorial |
| Course level | | 1st cycle (bachelor’s degree) |
| Year of study, semester | | 3rd year of study, 1st semester |
| Number of ECTS credits | | 5 |
| Number of hours per week | | 4 (2 lecture hours + 2 seminar hours) |
| Name of lecture holder | | Lecturer Adrian URSU |
| Name of seminar holder | | Lecturer Adrian URSU |
| Prerequisites | | Advanced level of English |
| A | **General and course-specific competences** | |
|  | **General competences**:   * Acquiring the adequate professional and transversal competencies, according to the specific requirements of the subject and the qualifications listed in the National Index of Higher Education Qualifications (RNCIS) for Geography of Tourism   **Course-specific competences**:   * Understand integrally the elements of the interaction between nature and society * Describe the main notions and concepts specific to the domain (systemic, interaction, organization); | |
| B | **Learning outcomes** | |
|  | * Use modern computing and cartography techniques to analyze different phenomena and processes with environmental impact; * Analyze environmental phenomena and processes in a given territory by applying the specific investigation, interpretation and evaluation algorithms; * Elaborate studies, including cartographic materials, that can serve as support in sustainable development planning | |
| C | **Lecture content** | |
|  | Introductive notions  General concepts of systems  Geosystem Structure, Abiotic System  Geosystem Structure, Biotic System  Geosystem structure, Social-economic system  Movement in the Geosystem, Transfer and movements of matter, energy, information, Freedom of movement in geosystems, Continuity, threshold, discontinuity  Movement in the Geosystem. Functional imbalance, dynamic balance, Risk, hazard, dysfunctional degradation, degradation, Functionality, self-regulation  Levels of organization in the geosystem. Spatial entities resulting from functional hierarchies  Geosystems and Time  Quality of the geosystem, Quality concept for systemic structures, Geosystem quality, Geosystem crisis phenomena, Mechanisms and forms of redirection directed  Geosystem Control  Protection and conservation of the geosystem, Concepts, motivations, factors involved in protection and conservation, Organization of protection and conservation  Legislation and Environmental Education | |
| D | **Recommended reading for lectures** | |
|  | 1. De Groot W. T. (1992) – Environmental science theory, Elsevier Publ. H.  2. Ungureanu Irina (2002) - “Geografia mediului”, Universitatea “ Al.I. Cuza”, Iaşi.  3. Durand D. (1990) – La systémique, Presses Univ. de France, Paris  4. Brown L. (1990-2004) - Starea lumii, Ed. Tehnică, Bucureşti.  5. Ionescu A., Săhleanu V., Bîndiu C. (1989) –Protecţia mediului înconjurător şi educaţia ecologică, Ed. Ceres, Bucureşti.  6. Young P. C. (1993) – Concise encyclopaedia of environmental systems, Pergamon Press | |
| E | **Seminar content** | |
|  | Labor safety rules  In-depth and interactive explanation of systems theory  Creating an individual project aimed at applying systemic notions to a natural system of choice  Presentation of environmental issues related to the exploitation of lithosphere resources  Debate on conventional energies and unconventional energies  Environmental problems related to seas and oceans  Environmental issues on continental waters( rivers and lakes)  Climate Change and Ozone Layer  Conventional Agriculture versus Biological Agriculture  The anthropic impact on the relief  Endangered species  Bioinvasions  Final assessment of the activity in the practical work, based on the materials prepared during the semester | |
| F | **Recommended reading for seminars** | |
|  | 1. De Groot W. T. (1992) – Environmental science theory, Elsevier Publ. H.  2. Ungureanu Irina (2002) - “Geografia mediului”, Universitatea “ Al.I. Cuza”, Iaşi.  3. Durand D. (1990) – La systémique, Presses Univ. de France, Paris  4. Brown L. (1990-2004) - Starea lumii, Ed. Tehnică, Bucureşti.  5. Ionescu A., Săhleanu V., Bîndiu C. (1989) –Protecţia mediului înconjurător şi educaţia ecologică, Ed. Ceres, Bucureşti.  6. Young P. C. (1993) – Concise encyclopaedia of environmental systems, Pergamon Press. | |
| G | **Education style** | |
| learning and teaching methods | | Lecture, didactic explanation, heuristic conversation, problem, demonstration, modeling and cartographic representation |
| assessment methods | | Examination + Seminar Grades |
| Language of instruction | | English |