## 1.3. Module/ course form

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| To be completed by Course Team | Module name :  **Ecology and Nature Conservation II** | | | | | | Module code: | | |
| Course name:  **Ecology and Nature Conservation II** | | | | | | Course code: | | |
| Faculty:  **Institute of Technology** | | | | | | | | |
| Field of study:  **Environment Protection** | | | | | | | | |
| Mode of study :  stationary | | | Learning profile:  practical | | | Speciality:  Ecological Engineering | | |
| Year/ semester: | | | Module/ course status: | | | Module/ course language:  Polish with consultation in English | | |
| Type of classes | lecture | lessons | | lab | project | | tutorial | other (please specify) |
| Course load | **30** | **15** | |  |  | |  |  |

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| Module/ course coordinator | Dr Agata Rychter |
| Lecturer | Dr Agata Rychter |
| Module/ course objectives | The course introduces students to conservation biology, taking a truly global perspective and providing a fully comprehensive and accessible treatment of the subject. gives knowledge about forms and methods of nature conservation;. knowledge of regional and global threats of species and natural ecosystems, methods and possibility to create networks of protected areas. |
| Entry requirements |  |

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| **LEARNING OUTCOME** | | |
| Nr | LEARNING OUTCOME DESCRIPTION | Learning outcome reference |
| 01 | Student understands the fundamental phenomenon and processes disturbing ecosystems which are the key ecosystem for the biosphere. | K\_W01 |
| 02 | Student knows critical moments of the interaction between human civilization - development - natural conservation for future generations | K\_W05 |
| 03 | Student knows about the risks of global and regional protected species of flora and fauna, and basic information about national parks, nature reserves, the programme Natura 2000 network, knows the methods and forms of nature protection | K\_W08 |
| 04 | Student knows legal regulations regarding the nature conservation in Poland and in the world | K\_W11 |
| 05 | Student can apply the appropriate concepts from the scope of nature conservation and combine the issues of several scientific disciplines for describing and planning conservation actions | K\_U19 |
| 06 | Student takes into account the effects of human activity on biospheres during the planning of protected areas and responsibility for his decisions | K\_K05 |

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| **CURRICULUM CONTENTS** |
| **Lecture** |
| The evolution of the nature conservation ideas. The main ecological trends in philosophy. Diversity of ecosystems. The main ecosystems for the stable biosphere. Influences of human activity on the nature and the intensity of this changes - forms.  The factors that have led to the alarming loss of biodiversity. In particular, the fundamental problems of habitat loss and fragmentation, habitat disturbance and the non-sustainable exploitation of species in both aquatic and terrestrial ecosystems. The methods that have been developed to address these problems from the most traditional forms of conservation to new approaches at genetic to landscape scales. Cases showing how science can be put into practice. The main objectives of the conservation of nature, with an emphasis on biodiversity and landscape. |
| Lessons l |
| Practical methods for determining protected areas: analysis of gaps, method of representation, , method of supplement, habitats method. Study the design of protected areas and management - case analysis .  One day training lessons in the Słowiński National Park. |

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| Basic literature | Pullin A., 2012, Conservation biology, Cambridge University Press |
| Additional literature |  |

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| Teaching methods | | Lecture, presentation, student’s debates, case studies, discussion. | |
| Assessment method | | | Learning outcome number |
| Assessment of presentation | | | 01,03, 06 |
| Debat results | | | 02, 03, 05 |
| Case analyses | | | 02, 05 |
| Exam | | | 01, 04, 05 |
| Form and terms of an exam | Written exam | | |

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| **STUDENT WORKLOAD** | |
|  | Number of hours |
| Participation in lectures | 30 |
| Independent study of lecture topics | 10 |
| Participation in tutorials, labs, projects and seminars | 15 |
| Independent preparation for tutorials\* | 5 |
| Preparation of projects/essays/etc. \* | 15 |
| Preparation/ independent study for exams |  |
| Participation during consultation hours | 5 |
| Other |  |
| **TOTAL student workload in hours** | 80 |
| **Number of ECTS credit per course unit** | **3** |
| Number of ECTS credit associated with practical classes | **1,1** |
| Number of ECTS for classes that require direct participation of professors | **1,9** |