

### COURSE DESCRIPTION CARD

| <b>Faculty of Civil Engineering and Environmental Sciences</b> |  |          |           |          |           |           |          |  |                  |
|--|--|----------|-----------|----------|-----------|-----------|----------|--|------------------|
| <b>Field of study</b>  |  |          |           |          |           |           |          | <b>Degree level and programme type</b>                           |                  |
| <b>Specialization / diploma path</b>                           |  |          |           |          |           |           |          | <b>Study profile</b>   |                  |
| <b>Course name</b>   | Forest management in valuable natural areas  |          |           |          |           |           |          | <b>Course code</b>   | IS-FF-00041W/S   |
|  |  |          |           |          |           |           |          | <b>Course type</b>   | Erasmus          |
| <b>Forms and number of hours of tuition</b>                    | <b>L</b>   | <b>C</b> | <b>LC</b> | <b>P</b> | <b>SW</b> | <b>FW</b> | <b>S</b> | <b>Semester</b>  | summer or winter |
|  | 15   |          |           | 15       |           | 10        |          | <b>No. of ECTS credits</b>                                       | 3                |
| <b>Entry requirements</b>                                      | Ecology, Nature protection   |          |           |          |           |           |          |  |                  |
| <b>Course objectives</b>                                       | The aim of the course is to combine forest protection principles with forest ecology and nature protection in valuable natural areas. The subject is designed to learn the possibilities of restoring the functions of forest ecosystems, methods of reclamation and protection of habitats, plant communities and related animals, the possibility of conducting an economy taking into account natural processes as well as familiarizing students with good practices in forest management for the protection of forest ecosystems.   |          |           |          |           |           |          |  |                  |
| <b>Course content</b>  | Legal basis for the protection of forest ecosystems in Poland and Europe. Fundamentals of stability of forest ecosystems with various forest management methods. Principles of forest ecosystem protection. Seeking a consensus between economic interests and nature conservation in anthropogenic changed forests and forests of varying degrees of naturalness. Ecological consequences of anthropogenic transformations of forest ecosystems. The impact of modern forest management on the components of forest ecosystems. Techniques for restoring a near-natural state of degenerated and distorted forest ecosystems. |          |           |          |           |           |          |  |                  |
| <b>Teaching methods</b>  | Lecture, exercises, presentation   |          |           |          |           |           |          |  |                  |
| <b>Assessment method</b>                                       | Lecture - written tests; project, field workshop - project and report evaluation   |          |           |          |           |           |          |  |                  |
| <b>Symbol of learning outcome</b>                              | <b>Learning outcomes</b>   |          |           |          |           |           |          | <b>Reference to the learning outcomes for the field of study</b> |                  |
| <b>LO1</b>   | The student knows extended knowledge of the law on the protection of forest ecosystems in Poland and Europe.   |          |           |          |           |           |          | L2P_W02,<br>L2P_W10  |                  |
| <b>LO2</b>   | The student has in-depth knowledge of the role and importance of the natural environment and the sustainable use of biological diversity and its threats.  |          |           |          |           |           |          | L2P_W05  |                  |
| <b>LO3</b>   | The student is able to choose techniques for restoring a near-natural state of degenerated and distorted forest ecosystems.  |          |           |          |           |           |          | L2P_U06  |                  |
| <b>LO4</b>   | Student is able to assess and plan tasks related to the functioning of forest ecosystems, taking into account sustainability criteria.   |          |           |          |           |           |          | L2P_U04  |                  |
| <b>Symbol of learning outcome</b>                              | <b>Methods of assessing the learning outcomes</b>  |          |           |          |           |           |          | <b>Type of tuition during which the outcome is assessed</b>      |                  |

|  |   |                                      |                            |
|--|---|--------------------------------------|----------------------------|
| <b>L01</b>   | final test for lectures   | L                                    |                            |
| <b>L02</b>   | final test for lectures   | L                                    |                            |
| <b>L03</b>   | project and reports evaluation  | P, FW                                |                            |
| <b>L04</b>   | project and reports evaluation  | P, FW                                |                            |
| <b>Student workload (in hours)</b>   |   | <b>No. of hours</b>                  |                            |
| <b>Calculation</b>   | Participation in the lectures   | 15                                   |                            |
|  | Participation in the project classes  | 15                                   |                            |
|  | Participation in consultations  | 15                                   |                            |
|  | Preparation of projects and reports   | 15                                   |                            |
|  | Preparation for passing the final test  | 5                                    |                            |
|  | Preparation of the report of fieldwork  | 5                                    |                            |
|  | Preparation of presentation   | 10                                   |                            |
| <b>Total:</b>  |   | 80                                   |                            |
| <b>Quantitative indicators</b>   |   | <b>Hours</b>                         | <b>No. of ECTS credits</b> |
| <b>Student workload – activities that require direct teacher participation</b> |   | 50                                   | 2                          |
| <b>Student workload – practical activities</b>                                 |   | 60                                   | 2                          |
| <b>Basic references</b>  | Fryxell J. M., Sinclair A. R. E., Caughley G. 2014. Wildlife Ecology, Conservation, and Management. Wiley Blackwell<br>Silvy N. J. (ed.) 2012. The Wildlife Techniques Manual (Volume 1: Research/ Volume 2: Management). John Hopkins University Press |                                      |                            |
| <b>Supplementary references</b>  | Krausman P. R., Cain J. W. (eds.) 2013. Wildlife Management and Conservation: Contemporary Principles and Practices   |                                      |                            |
| <b>Organisational unit conducting the course</b>                               | Faculty of Civil Engineering and Environmental Sciences   | <b>Date of issuing the programme</b> |                            |
| <b>Author of the programme</b>   | Dan Wołkowycki, PhD   | 01.03.2020                           |                            |

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar