

## COURSE DESCRIPTION CARD – SPECIMEN

| Faculty of Civil Engineering and Environmental Sciences |   |   |    |    |    |    |   |   |                  |
|---|---|---|----|----|----|----|---|---|------------------|
| Field of study  |   |   |    |    |    |    |   | Degree level and programme type                           |                  |
| Specialization/ diploma path                            |   |   |    |    |    |    |   | Study profile   | Academic profile |
| Course name   | Vegetation  |   |    |    |    |    |   | Course code   | IS-FCEE-00117S   |
|   |   |   |    |    |    |    |   | Course type   | Erasmus          |
| Forms and number of hours of tuition                    | L   | C | LC | P  | SW | FW | S | Semester  | Summer           |
|   | 15  |   |    | 15 |    |    |   | No. of ECTS credits                                       | 4                |
| Entry requirements                                      | Biology, Soil science, Ecology  |   |    |    |    |    |   |   |                  |
| Course objectives                                       | Recognition of the relationship between plants communities and a set of biotic and edaphic factors  |   |    |    |    |    |   |   |                  |
| Course content  | European geobotanical school. Braun-Blanquette phytosociological methodology. The classification of vegetation in Poland. Systematic review of plant communities of Poland. Methods used for the research of vegetation. Forest site classification. Geobotanical regionalization of Poland. The impact of human activity on vegetation. Natural and potential vegetation. Vegetation dynamics. Ecological processes (dynamic processes) in the communities. Anthropogenic changes of vegetation in Poland (synanthropisation of vegetation). |   |    |    |    |    |   |   |                  |
| Teaching methods  | Lecture - presentation, the project - presentation, discussion  |   |    |    |    |    |   |   |                  |
| Assessment method                                       | Lecture - Exam; the project - a description and discussion of the project   |   |    |    |    |    |   |   |                  |
| Symbol of learning outcome                              | Learning outcomes   |   |    |    |    |    |   | Reference to the learning outcomes for the field of study |                  |
| LO1   | student has knowledge of the structure and functioning of vegetation and plant communities  |   |    |    |    |    |   | K_W03, K_W11  |                  |
| LO2   | recognizes and understands the relationship between biotic and edaphic factors and plant communities  |   |    |    |    |    |   | K_W05, K_W18, K_U18, K_U22                                |                  |
| LO3   | know how to classify of vegetation and ecological processes (dynamic processes) in the communities  |   |    |    |    |    |   | K_W16, K_U18, K_U22, K_K02                                |                  |
| LO4   | know how to identify plant communities and diagnostic species of habitat types (in the context of Natura 2000 habitats)   |   |    |    |    |    |   | K_W11, K_W12, K_U22                                       |                  |
| LO5   | know how to choose and use the research methods used in vegetation and phytosociology   |   |    |    |    |    |   | K_U23   |                  |
| LO6   | know how to work in a team  |   |    |    |    |    |   | K_U03, K_K04  |                  |

| Symbol of learning outcome   | Methods of assessing the learning outcomes   | Type of tuition during which the outcome is assessed |                     |
|--|--|--|---------------------|
| LO1  | tests on lecture content, student's reports, discussion, description of project  | lecture, project, consultation                       |                     |
| LO2  | evaluating the student's reports and preparation for the classes, tests on lecture content, discussion, description of project   | lecture, project, consultation                       |                     |
| LO3  | evaluating the student's reports and preparation for the classes, tests on lecture content, discussion, description of project   | lecture, project, consultation                       |                     |
| LO4  | tests on lecture content, student's reports, discussion, description of project  | lecture, project, consultation                       |                     |
| LO5  | evaluating the student's reports and preparation for the classes, discussion, description of project   | project  |                     |
| LO6  | discussion, description of project   | project  |                     |
| Student workload (in hours)  |  | No. of hours   |                     |
| Calculation  | lecture attendance   | 15   |                     |
|  | participation in classes, in project   | 15   |                     |
|  | participation in student-teacher sessions related to the class/ project  | 10   |                     |
|  | preparation for classes, projects  | 15   |                     |
|  | work on projects, reports, etc   | 15   |                     |
|  | implementation of project tasks  | 15   |                     |
|  | preparation and participation in exams   | 10   |                     |
|  | <b>TOTAL:</b>  | <b>95</b>  |                     |
| Quantitative indicators  |  | HOURS  | No. of ECTS credits |
| <b>Student workload – activities that require direct teacher participation</b> |  | <b>50</b>  | <b>2</b>            |
| <b>Student workload – practical activities</b>                                 |  | <b>45</b>  | <b>2</b>            |
| <b>Basic references</b>  | 1) Matuszkiewicz W.: Guide to the determination of Polish plant communities. PWN, Warszawa, 2005. 2) Kornas J., Medwecka-Kornas A.: Geography of plants. PWN, Warszawa, 2002. 3) Dzwonko Z.: Guide to the phytosociological studies. Wydawnictwo Sorus, Inst. Bot. UJ., 2007. 4) Matuszkiewicz J.M.: Plant communities of Poland. Wydawnictwo Naukowe PWN, Warszawa, 2005. |  |                     |
| <b>Supplementary references</b>  | 1) Weiner J.: Biosphere life and evolution. PWN, Warszawa, 2008. 2) Starkel L. (red.). Geography of Poland. The Natural Environment.. PWN, Warszawa, 1999. 3) Wysocki C., Sikorski P.: 2009. Applied phytosociology in Landscape Protection and Management. SGGW, Warszawa, 2009.  |  |                     |
| <b>Organisational unit conducting the course</b>                               | Department of Agri-Food Engineering and Environmental Management   | <b>Date of issuing the programme</b>                 |                     |
| <b>Author of the programme</b>   | <b>Grażyna Łaska</b>   | <b>12-03-2021</b>                                    |                     |

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

S – seminar