



MODULE SPECIFICATION

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|---------------------------------------|-----------------------------|
| Module code | |
| Module title in Polish | Seminarium dyplomowe |
| Module title in English | Diploma Seminar |
| Module running from the academic year | 2016/2017 |

A. MODULE IN THE CONTEXT OF THE PROGRAMME OF STUDY

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|---|--|
| Field of study | Surveying and Cartography |
| Level of qualification | first cycle (first cycle, second cycle) |
| Programme type | academic (academic/practical) |
| Mode of study | full-time (full-time/part-time) |
| Specialism | all |
| Organisational unit responsible for module delivery | The Department of Geotechnical Engineering, Geomatics and Waste Management |
| Module co-ordinator | Ryszard Florek-Paszkowski, PhD, Eng. |
| Approved by: | Ryszard Florek-Paszkowski, PhD, Eng. |

B. MODULE OVERVIEW

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| Module type | core module (core/programme-specific/elective HES*) |
| Module status | compulsory module (compulsory/optional) |
| Language of module delivery | English |
| Semester in the programme of study in which the module is taught | semester 7 |
| Semester in the academic year in which the module is taught | winter semester (winter semester/summer semester) |
| Pre-requisites | None (module code/module title, where appropriate) |
| Examination required | No (Yes/No) |
| ECTS credits | 3 |

* elective HES – elective modules in the Humanities and Economic and Social Sciences

| Mode of instruction | lectures | classes | laboratories | project | others |
|---------------------|----------|---------|--------------|---------|--------|
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Politechnika Świętokrzyska

WYDZIAŁ INŻYNIERII ŚRODOWISKA, GEOMATYKI I ENERGETYKI

| | | | | | |
|--------------------------|--|--|--|----|--|
| Total hours per semester | | | | 30 | |
|--------------------------|--|--|--|----|--|



C. LEARNING OUTCOMES AND ASSESSMENT METHODS

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| Module aims | The purpose of the subject is to teach students how to prepare, write and present their scientific achievements in their diploma thesis and also to enhance their knowledge on the subject of the thesis. |
|--------------------|---|

| Module outcome code | Module learning outcomes | Mode of instruction (l/c/lab/p/ others) | Corresponding programme outcome code | Corresponding discipline-specific outcome code |
|---------------------|---|---|--------------------------------------|--|
| W_01 | A student knows basic methods, techniques, and tools applied while solving engineering tasks as regards surveying and cartography; a student also applies them to complete his/her diploma thesis. | p | GiK_W27 | T1A_W07 |
| W_02 | A student has knowledge as regards the organisation and preparation a workstand, in terms of completing a diploma thesis. | p | GiK_W28 | T1A-W08 |
| W_03 | A student has basic knowledge on development trends in the field of direct and remote surveying methods of obtaining data. | p | GiK_W24 | T1A_W05, T1A_W07 |
| U_01 | A student is familiar with the methods of searching information included in various bibliographical and Internet sources; a student can assess this information and utilise it in his/her diploma thesis. | p | GiK_U01 | T1A_U01 |
| U_02 | A student is able to independently prepare to seminars and defend his/her diploma thesis. | p | GiK_U03 | T1A_U01, T1A_U05, |
| U_03 | A student has substantive and methodological preparation for thematic presentation on surveying and cartography which is connected with a diploma thesis. | p | GiK_U08 | T1A_U04, T1A_U06, |
| U_04 | A student is able to plan and take surveys for a diploma thesis; a student can also interpret results and draw conclusions. | p | GiK_U14 | T1 A_U08 |
| K_01 | A student understands the necessity and knows the possibilities of continuous education (second- and third-degree studies, post-graduate studies) and raising his/her professional, personal, and social competences. | p | GiK_K01 | T1A_K01 |
| K_02 | A student is aware of the necessity of self-education and acting responsibly and according to the principles of professional ethics; a student also respects the principles of protecting intellectual property. | p | GiK_K02 GiK_K04 | T1A_K01, T1A_K02, T1A_K05, T1A_K07 |
| K_03 | A student can co-operate and work in a team; a student is also aware of the responsibility for the realisation of team tasks, including the ones connected with his/her diploma thesis. | p | GiK_K06 GiK_K07 | T1A_K03 |

Module content:

1. Topics to be covered in the classes



| No. | Topics | Module outcome code |
|--------|--|--------------------------------------|
| 1 – 2. | Instructions concerning diploma thesis. Formulating a thesis for the needs of a diploma work. The methodology of collecting data and documenting research results. Processing data with the application of statistical data. Interpreting research results and formulating conclusions. The principles of utilising and quoting literature on the subject. | W_01 |
| 3 – 5. | Discussing additional issues as regards surveying and cartography which are connected with the subject of diploma theses in order to deepen information in particular engineering issues. | W_01 W_02 K_01 |
| 6 – 9. | Presenting papers on the subjects connected with the diploma thesis (with the use of multimedia means); the defence together with the discussion. | W_02 W_03 U_01 U_02 K_01 |
| 10. | A final presentation of diploma theses prior to submitting them. | W_02 W_03 U_02 U_03 K_02 |



D. STUDENT LEARNING ACTIVITIES

| ECTS summary | | |
|--------------|--|-----------------------------|
| | Type of learning activity | Study time/ credits |
| 1 | Contact hours: participation in lectures | - |
| 2 | Contact hours: participation in classes | - |
| 3 | Contact hours: participation in laboratories | - |
| 4 | Contact hours: attendance at office hours (2-3 appointments per semester) | - |
| 5 | Contact hours: participation in project-based classes | 30 |
| 6 | Contact hours: meetings with a project module leader | 15 |
| 7 | Contact hours: attendance at an examination | - |
| 8 | | |
| 9 | Number of contact hours | 45 <i>(total)</i> |
| 10 | Number of ECTS credits for contact hours <i>(1 ECTS credit = 25-30 hours of study time)</i> | 1.8 |
| 11 | Private study hours: background reading for lectures | |
| 12 | Private study hours: preparation for classes | |
| 13 | Private study hours: preparation for tests | |
| 14 | Private study hours: preparation for laboratories | |
| 15 | Private study hours: writing reports | - |
| 16 | Private study hours: preparation for a final test in laboratories | |
| 17 | Private study hours: preparation of a project/a design specification | 15 |
| 18 | Private study hours: preparation for an examination | 15 |
| 19 | | |
| 20 | Number of private study hours | 30 <i>(total)</i> |
| 21 | Number of ECTS credits for private study hours <i>(1 ECTS credit = 25-30 hours of study time)</i> | 1.2 |
| 22 | Total study time | 75 |
| 23 | Total ECTS credits for the module <i>(1 ECTS credit = 25-30 hours of study time)</i> | 3 |
| 24 | Number of practice-based hours <i>Total practice-based hours</i> | 60 |
| 25 | Number of ECTS credits for practice-based hours <i>(1 ECTS credit = 25-30 hours of study time)</i> | 2.4 |

E. READING LIST

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| References | |
| Module website | |