



## Subject card

|                                             |                                                                                                                                                                                      |                                                          |                                         |                                     |                        |            |     |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------|------------|-----|
| Subject name and code                       | Diploma seminar, PG_00055917                                                                                                                                                         |                                                          |                                         |                                     |                        |            |     |
| Field of study                              | Power Engineering, Power Engineering, Power Engineering                                                                                                                              |                                                          |                                         |                                     |                        |            |     |
| Date of commencement of studies             | October 2023                                                                                                                                                                         |                                                          | Academic year of realisation of subject |                                     | 2026/2027              |            |     |
| Education level                             | first-cycle studies                                                                                                                                                                  |                                                          | Subject group                           |                                     | Optional subject group |            |     |
| Mode of study                               | Full-time studies                                                                                                                                                                    |                                                          | Mode of delivery                        |                                     | at the university      |            |     |
| Year of study                               | 4                                                                                                                                                                                    |                                                          | Language of instruction                 |                                     | Polish                 |            |     |
| Semester of study                           | 7                                                                                                                                                                                    |                                                          | ECTS credits                            |                                     | 4.0                    |            |     |
| Learning profile                            | general academic profile                                                                                                                                                             |                                                          | Assessment form                         |                                     | assessment             |            |     |
| Conducting unit                             | Division of Automation and Marine Energy -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology |                                                          |                                         |                                     |                        |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                   |                                                          | dr hab. inż. Jerzy Kowalski             |                                     |                        |            |     |
|                                             | Teachers                                                                                                                                                                             |                                                          | dr hab. inż. Jerzy Kowalski             |                                     |                        |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                          | Lecture                                                  | Tutorial                                | Laboratory                          | Project                | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                | 0.0                                                      | 0.0                                     | 0.0                                 | 0.0                    | 15.0       | 15  |
|                                             | E-learning hours included: 0.0                                                                                                                                                       |                                                          |                                         |                                     |                        |            |     |
| Learning activity and number of study hours | Learning activity                                                                                                                                                                    | Participation in didactic classes included in study plan |                                         | Participation in consultation hours |                        | Self-study | SUM |
|                                             | Number of study hours                                                                                                                                                                | 15                                                       |                                         | 36.0                                |                        | 49.0       | 100 |
| Subject objectives                          | Teach students the principles of the diploma thesis                                                                                                                                  |                                                          |                                         |                                     |                        |            |     |

| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Subject outcome                                  | Method of verification                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|
|                                 | [K6_K01] is aware of the need for training and self-improvement in the profession of energy and the possibility of further education; can think and act in a creative and entrepreneurial manner; can define priorities for the implementation of an individual or group task                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | has skills in self-assessment and self-education | [SK3] Assessment of ability to organize work               |
|                                 | [K6_W08] has basic knowledge in the field of intellectual property protection and patent law, knows and understands the basic processes of energy production and use, knows and understands the principles of modern heating and power systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | knows intellectual property law                  | [SW1] Assessment of factual knowledge                      |
|                                 | [K6_U01] can obtain information from literature and other sources, organize, interpret it and draw and formulate conclusions; has the ability to self-educate, interprets the results of completed engineering tasks, is able to design simple energy systems and their systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | collects and verifies information                | [SU1] Assessment of task fulfilment                        |
|                                 | [K6_K02] is able to work in a group taking different roles in it, can think and act in an entrepreneurial way, is aware of responsibility for their own work and responsibility for teamwork                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | knows how to organize teamwork                   | [SK1] Assessment of group work skills                      |
|                                 | [K6_U13] can read architectural, construction and geodesy drawings, and can use the known computer software to prepare a drawing part of technical documentation for the sanitary, energy, hydropower industry and prepare a text or presentation including a discussion of the implemented results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | is able to prepare technical documentation       | [SU5] Assessment of ability to present the results of task |
| Subject contents                | <p>Course content – seminar</p> <p>Organization of classes. Discussing the rules for completing the master thesis as part of a group project. Course contents, features and functions of the master's thesis, motivation to take up the topic within a group project. Genesis, selection, formulation and justification of the topic. Division of tasks between members of the project group and establishing communication rules. Methods of scientific research in the design and operation of marine and ocean-engineering machines and devices. The layout of the work, the technique of editing the content, the ways of presenting the results of the research, preparation of the documentation of the completed part of the project, source literature. Presentation of the results of partial tasks of a group project and their settlement. Degree of goal completion. Cognitive and utilitarian conclusions. The course of the diploma exam.</p> |                                                  |                                                            |
| Prerequisites and co-requisites | Registration for the diploma semester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                            |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Passing threshold                                | Percentage of the final grade                              |
|                                 | presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100.0%                                           | 50.0%                                                      |
|                                 | Attendance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 75.0%                                            | 50.0%                                                      |
| Recommended reading             | <p>Basic literature</p> <p>Majchrzak J., Mendel T.: Metodyka pisania prac dyplomowych, Wydawnictwo AE, Poznań 1995</p> <p>Chrościcki Z., Zarządzanie projektem zespołami zadaniowymi, Wydawnictwo C.H.Beck, Warszawa 2001</p> <p>Berkun S., Sztuka zarządzania projektami, Helion, Gliwice 2006</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |                                                            |

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|                                                                | Supplementary literature | <p>Tobis, Irene i Michael, Managing Multiple Projects, New York: McGraw-Hill, 2002</p> <p>Phillips J.: Zarządzanie projektami IT, Helion, Gliwice 2004</p> <p>Literatura specjalistyczna związana z zakresem realizowanych projektów grupowych</p> |
|                                                                | eResources addresses     |                                                                                                                                                                                                                                                    |
| Example issues/<br>example questions/<br>tasks being completed |                          |                                                                                                                                                                                                                                                    |
| Practical activities within<br>the subject                     | Not applicable           |                                                                                                                                                                                                                                                    |

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