



## Subject card

|   |   |  |                        |                                     |                        |            |     |
|---|---|--|------------------------|-------------------------------------|------------------------|------------|-----|
| Subject name and code                       | Vocational Training, PG_00048071  |  |                        |                                     |                        |            |     |
| Field of study                              | Informatics   |  |                        |                                     |                        |            |     |
| 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   |                        |                                     | 2.0                    |            |     |
| Learning profile                            | general academic profile  | Assessment form  |                        |                                     | assessment             |            |     |
| Conducting unit                             | Department of Microelectronic Systems -> Faculty of Electronics, Telecommunications and Informatics   |  |                        |                                     |                        |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor  |  | dr inż. Mariusz Szwoch |                                     |                        |            |     |
|   | Teachers  |  |                        |                                     |                        |            |     |
| Lesson types and methods of instruction     | Lesson type   | Lecture  | Tutorial               | Laboratory                          | Project                | Seminar    | SUM |
|   | Number of study hours   | 0.0  | 0.0                    | 0.0                                 | 0.0                    | 0.0        | 0   |
|   | 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   | 0  |                        | 2.0                                 |                        | 48.0       | 50  |
| Subject objectives                          | The objectives of practice are as follows: <ul style="list-style-type: none"><li>• apply knowledge and skills acquired during previous studies,</li><li>• acquisition of a new knowledge, skills and social competence</li><li>• knowledge of the industrial environment of teamwork and the conditions and rules in force in this environment</li><li>• development of appropriate attitudes to work in a team : taking care of the quality of work , timeliness tasks, correct cooperation with others and cells in the place of practice , developing his own initiative in the work environment , the acquisition of skills work efficiently as a team.</li></ul> |  |                        |                                     |                        |            |     |

| Learning outcomes | Course outcome   | Subject outcome   | Method of verification   |
|-------------------|--|---|--|
|                   | [K6_U11] can plan and organise individual and team work  | The student knows the management methods of hi-tech company.  | [SU2] Assessment of ability to analyse information<br>[SU3] Assessment of ability to use knowledge gained from the subject |
|                   | [K6_K03] is ready to meet social obligations, co-organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way   | The student is able to work in a company in a project team.   | [SK1] Assessment of group work skills  |
|                   | [K6_U08] while identifying and formulating specifications of engineering tasks related to the field of study and solving these tasks, can:n- apply analytical, simulation and experimental methods,n- notice their systemic and non-technical aspects,n- make a preliminary economic assessment of suggested solutions and engineering work n  | The student is able to use his or her knowledge and learn new issues.   | [SU2] Assessment of ability to analyse information   |
|                   | [K6_K02] is ready to critically assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive and practical problems   | The student learns about the need for constant replenishment knowledge. The student is able to use his or her knowledge and learn new issues. | [SK5] Assessment of ability to solve problems that arise in practice   |
|                   | [K6_K01] is ready to cultivate and disseminate models of proper behaviour in and outside the work environment; make independent decisions; critically evaluate actions of their own, teams they lead and organisations they are part of; take responsibility for results of these actions; responsibly perform professional roles, including:n - observing rules of professional ethics and require it from others,n - care for the achievements and traditions of the profession  | The student learns about the need for constant replenishment knowledge.   | [SK2] Assessment of progress of work   |
| Subject contents  | <p>The professional internship plan must contain at least three selected tasks from the following technical and engineering skills block:</p> <ol style="list-style-type: none"> <li>1. Installation, configuration and administration of small computer networks, including wireless ones.</li> <li>2. Implementation of information security policy in a company or institution, installation of anti-virus protection, configuration of firewalls.</li> <li>3. Installation, configuration and administration of software, in particular operating systems and application servers.</li> <li>4. Design, implementation and modification of software in various technologies and for various applications.</li> <li>5. Software testing, also using automated testing tools.</li> <li>6. The use of open program components, taking into account the legal relationships between them and the resulting product.</li> <li>7. Database design and implementation as well as performance testing.</li> <li>8. Using advanced methods and technologies for processing, storage, transformation and data analysis (Big Data, Business Intelligence, data warehouses)</li> <li>9. Design and prototyping of advanced user interfaces.</li> <li>10. Using advanced IT tools for processing sound, image and video files.</li> <li>11. Configuration of external computer devices, expansion and modification of its module structure and internal devices.</li> <li>12. Preparation and testing of software for simple microcontrollers and embedded systems.</li> <li>13. Preparation and analysis of technical documentation of IT projects, use of models and management tools for e-business.</li> </ol> |   |  |

| Prerequisites and co-requisites   | <p>Before starting the internship, the student must complete the following formalities within the time limit indicated by the Dean's representative for professional internships:</p> <ol style="list-style-type: none"> <li>1. Report in the manner specified in the current internship regulations about intending to do an internship in the plant of your choice and obtain the consent of the Dean's representative for internships.</li> <li>2. In the cases indicated in the current internship regulations, obtain the consent of the relevant vice-dean and provide it to the dean's attorney for internships.</li> <li>3. In the case of unpaid internships, obtain a signed contract between the workplace and PG WETI and provide data for accident insurance.</li> </ol> |                                  |                   |                               |   |       |        |  |  |
|---|---|----------------------------------|-------------------|-------------------------------|---|-------|--------|--|--|
| Assessment methods and criteria   | <table border="1" data-bbox="451 483 1477 595"> <thead> <tr> <th data-bbox="451 483 798 510">Subject passing criteria</th> <th data-bbox="805 483 1141 510">Passing threshold</th> <th data-bbox="1149 483 1477 510">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 512 798 595">Report, positive assessment of the workplace and compliance with procedures</td> <td data-bbox="805 512 1141 595">60.0%</td> <td data-bbox="1149 512 1477 595">100.0%</td> </tr> </tbody> </table>  | Subject passing criteria         | Passing threshold | Percentage of the final grade | Report, positive assessment of the workplace and compliance with procedures | 60.0% | 100.0% |  |  |
| Subject passing criteria  | Passing threshold   | Percentage of the final grade    |                   |                               |   |       |        |  |  |
| Report, positive assessment of the workplace and compliance with procedures | 60.0%   | 100.0%                           |                   |                               |   |       |        |  |  |
| Recommended reading   | Basic literature  | No recommendations               |                   |                               |   |       |        |  |  |
|   | Supplementary literature  | No recommendations               |                   |                               |   |       |        |  |  |
|   | eResources addresses  | Adresy na platformie eNauczanie: |                   |                               |   |       |        |  |  |
| Example issues/<br>example questions/<br>tasks being completed              |   |                                  |                   |                               |   |       |        |  |  |
| Work placement  | The subject is internship.  |                                  |                   |                               |   |       |        |  |  |