



Subject card

Subject name and code	Internship, PG_00067410						
Field of study	Data Engineering						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2028/2029		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
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		6.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Intelligent Interactive 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		160.0	162
Subject objectives	<p>The objectives of practice are as follows:</p> <p>apply knowledge and skills acquired during previous studies,</p> <p>acquisition of a new knowledge, skills and social competence</p> <p>knowledge of the industrial environment of teamwork and the conditions and rules in force in this environment</p> <p>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.</p>						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U03] demonstrates professional and effective teamwork, both as a leader and as a team member		The student can work in a company in a project team playing different roles utilizing the knowledge and skills he/she acquired.		[SU4] Assessment of ability to use methods and tools		
	[K6_W04] demonstrates creative and entrepreneurial activity in formulating and implementing innovative ideas		The student is able to propose various solutions to the problems posed in the company, analyze their advantages and disadvantages, both in terms of the results achieved and production aspects.		[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		

Subject contents	<p>The professional internship plan must contain at least three selected tasks from the following technical and engineering skills block:</p> <p>1. Installation, configuration and administration of small computer networks, including wireless ones.</p> <p>2. Implementation of information security policy in a company or institution, installation of anti-virus protection, configuration of firewalls.</p> <p>3. Installation, configuration and administration of software, in particular operating systems and application servers.</p> <p>4. Design, implementation and modification of software in various technologies and for various applications.</p> <p>5. Software testing, also using automated testing tools.</p> <p>6. The use of open program components, taking into account the legal relationships between them and the resulting product.</p> <p>7. Database design and implementation as well as performance testing.</p> <p>8. Using advanced methods and technologies for processing, storage, transformation and data analysis (Big Data, Business Intelligence, data warehouses)</p> <p>9. Design and prototyping of advanced user interfaces.</p> <p>10. Using advanced IT tools for processing sound, image and video files.</p> <p>11. Configuration of external computer devices, expansion and modification of its module structure and internal devices.</p> <p>12. Preparation and testing of software for simple microcontrollers and embedded systems.</p> <p>13. Preparation and analysis of technical documentation of IT projects, use of models and management tools for e-business.</p>		
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> <p>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.</p> <p>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.</p> <p>3. In the case of unpaid internships, obtain a signed contract between the workplace and PG WETI and provide data for accident insurance.</p>		
Assessment methods and criteria	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/ example questions/ tasks being completed			

Work placement	The subject is internship.
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