GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Professional Practice, PG_00060468						
Field of study	Mechanical and Naval Engineering						
Date of commencement of studies	October 2025		Academic year of realisation of subject	2028/2029			
Education level	first-cycle studies		Subject group	Optional subject group			
Mode of study	Part-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	Institute Of Mechanics And Machine Design -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	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		10.0	140.0	150	
Subject objectives	The student completes a professional internship in order to develop the skills of practical use of knowledge acquired during education at the Faculty of Mechanical and Ship Engineering. The student becomes familiar with the functioning of the enterprise, the structure of processes, forms of process organization. The student becomes familiar with direct work and the way it is organized at selected positions in the enterprise. The student analyzes the circulation of documents and the flow of information in the enterprise.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_K02] understands ex-technical aspects of the activities included in the profession of a mechanical engineer, among others its social impact and influence on the condition of an environment; is aware of the responsibility connected with the decisions made in connection with engineering activity	The student is able to use knowledge to evaluate the activities of a mechanical engineer and is aware of the impact of his or her own decisions on the activities conducted.	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice
	[K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects	The student understands the need for lifelong learning and updating of knowledge. The student is able to identify and use sources of knowledge. The student adheres to the principles of professional ethics, demonstrates entrepreneurship and professionalism in the performance of duties.	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work
	[K6_W15] possesses a knowledge necessary to understand the ex-technical conditions of engineering activity, possesses knowledge on management, including quality management and running commercial enterprise, within the range of protection of intellectual property and patent law; knows general principles of creating and developing forms of individual entrepreneurship and basic HSE rules applicable to machine industry	The student understands the need for lifelong learning and updating of knowledge. The student is able to identify and use sources of knowledge. The student adheres to the principles of professional ethics, demonstrates entrepreneurship and professionalism in the performance of duties.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge
	[K6_U14] is able to analyse the operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria	The student is able to identify and formulate a design or technological task in and has the ability to present results using computer programs and other tools that support	[SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task
Subject contents	The professional practice should include selected topics from the framework internship plan:I. The internship plan must include at least three selected tasks from the following block of technical and engineering skills:1. Research, design, construction and operation of machines and their components.2. Research, design, construction and operation of stationary machines and objects.3. Research, design, construction and operation of mobile machines and objects (air, land, water, sea).4. Research, design, construction and operation of machines and mechanical systems: rotary (e.g. manipulators), rotating, hydraulic, pneumatic, electric, based on biomechanical technologies, etc.5. Research, design, construction and operation of mini and micro machines and mechanical systems.6. Research and development work related to the design and simulation of machine operation, including production lines, in conditions close to real conditions.7. Research and development work related to the operation of machines, including production lines, in real conditions.8. Design and operation of machines and machine systems: production, service, etc.9. Design and operation of machines and machine systems supported by IT systems (mechatronic systems).10. Design and operation of semi-automatic, automated or autonomous machines and machine systems.11. Application of machines and mechanical systems for transmission (transport) of fluids, energy, power, etc. 12. Design and operation of machines in renewable energy source systems.13. Design and operation of machines in environmental protection.14. Design and operation of machines in agriculture, forestry, mining industry, defense, other.15. Application of mechanical solutions in measurement systems.16. Diagnostics and servicing of machines and mechanical systems.17. Design and production documentation (calculations, CAD, CFD, CAM, CAE, others), operating procedures, acceptance tests, certification of machines, devices and mechanical systems.Other tasks subject to approval by the Dean's Representative for InternshipsII. Regardless of the above technical and engineering skills, during the internship the student must acquire the ability to work in a team, plan and carry out individual and team tasks, communicate effectively and adhere to the values and principles of cooperation applicable in the team, as well as acquire specific social competences:1. Readiness to cultivate and disseminate patterns of proper conduct in the work environment and outside it, make independent decisions, critically evaluate one's own actions, the actions of the teams he manages and the organizations in which he participates, accept responsibility for the effects of these actions, perform professional roles responsibly, including compliance with the principles of professional ethics and requiring the same from others, care for the achievements and traditions of the profession.2. Readiness to critically evaluate the knowledge held and to recognize the importance of knowledge in solving cognitive and practical problems. 3. Readiness to fulfill social obligations, co-organize activities for the social environment, initiate activities for the public interest, think and act in an entrepreneurial manner.		
Prerequisites and co-requisites	Knowledge of issues within the scope of the field of study: technical and non-technical.		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Report on the implementation of professional practice	100.0%	15.0%
	Information about completed professional practice	100.0%	15.0%
	Professional practice card	100.0%	70.0%
Recommended reading	Basic literature	Materials provided by the company at the internship location and individually recommended by the internship representative.	
	Supplementary literature	Materials provided by the company at the internship location and individually recommended by the internship representative.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Document for the student to read: Framework internship program - (.pdf) Documents to fill out before the internship: Referral to internship (.doc) - download Individual - internship program (.doc) - download Declaration of a student carrying out the internship on a date other than 01.07-09.09.20XX Documents required for settling the internship: Information on the internship (English) - (.doc) Information on the internship (Polish) - (.doc) Internship card - (.doc) Internship report template - (.doc)		
Work placement	Not applicable		

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