

Subject card

Subject name and code	Fundamentals of Manufacturing Engineering, PG_00060641								
Field of study	Transport and Logistics								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			5.0			
Learning profile	general academic profile		Assessmer	Assessment form			assessment		
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						d Ship		
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Leśniewski						
	Teachers		dr hab. inż. Karol Niklas						
			dr inż. Agnieszka Maczyszyn						
			dr inż. Jakub Kowalski						
			dr inż. Wojciech Leśniewski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0 30.0 0.0		0.0		0.0	60	
	E-learning hours inclu	ıded: 0.0							
Learning activity and number of study hours	Learning activity	earning activity Participation in classes include plan				Self-study SUM		SUM	
	Number of study hours	60		5.0)			125	
Subject objectives	The student is introduced to basic aspects related to manufacturing in ocean engineering.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_W07] has general knowledge in the field of humanities, social and economic sciences. Knows the principles of creating forms of individual entrepreneurship and running a business, and knows how to protect industrial and intellectual property and copyright law		The student is introduced to the basics of the of the process of construction of marine transportation means.			[SW2] Assessment of knowledge contained in presentation			
	[K6_W03] has well structured knowledge of hydromechanics, thermodynamics, machine construction, ecology, material science and electrical engineering necessary to understand the principles of construction and operation of means of water transport		The student is introduced to the basics of of shipbuilding technology.			[SW2] Assessment of knowledge contained in presentation			
	[K6_U05] can formulate a simple engineering task and its specification in the field of design, maintenance and operation of transport means and systems		The student is introduced to engineering issues related to the process of construction of marine transportation means.			[SU2] Assessment of ability to analyse information			

and criteria Colloquium 51.0% 100.0%		hulls. Diagram of the manufacturing technological requirements, mecha warehouses of plates and profiles. components, completion. Sectional curved sections. Assembly of spati	General characteristics of the technological process of shipbuilding and basic methods of assembly of ship hulls. Diagram of the manufacturing process of a ship. Steels for the construction of ship hulls, strength and technological requirements, mechanical properties, weldability. Storage of metallurgical materials, warehouses of plates and profiles. Prefabrication sequence of plates and profiles. Prefabrication of structural components, completion. Sectional and block division of the hull. Prefabrication of lobe flat sections and curved sections. Assembly of spatial sections and blocks. Assembly of a hull on a slipway. Launching the hull of a ship from a longitudinal and transverse slipway.						
and criteria Colloquium 51.0% 100.0%									
Recommended reading Basic literature 1. Bruce, George J.; Eyres, David J., Ship Construction (7th Edition ISBN: 978-0-08-097239-8, Elsevier 2012 2. J. Doerffer: Technologia budowy kadłubów okrętowych, 3. J. Doerffer: Organizacja produkcji w stoczni. 4. L. Palasik: "Monter kadłubowy" Supplementary literature 1. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675 2. Norrish J., Norrish J., Advanced Welding Processes (New Manufacturing Processes & Materials), ISBN-10: 0852743254,		methods Subject passing criteria	Passing threshold	Percentage of the final grade					
ISBN: 978-0-08-097239-8, Elsevier 2012 2. J. Doerffer: Technologia budowy kadłubów okrętowych, 3. J. Doerffer: Organizacja produkcji w stoczni. 4. L. Palasik: "Monter kadłubowy" Supplementary literature 1. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675 2. Norrish J., Norrish J., Advanced Welding Processes (New Manufacturing Processes & Materials), ISBN-10: 0852743254,	id criteria	colloquium	51.0%	100.0%					
4. L. Palasik: "Monter kadłubowy" 1. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675 2. Norrish J., Norrish J., Advanced Welding Processes (New Manufacturing Processes & Materials), ISBN-10: 0852743254,	ecommended reading	ded reading Basic literature	·						
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Manufacturing Processes & Materials), ISBN-10: 0852743254,		Supplementary literature	1. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675						
ISBN-13: 978-0852743256, Springer; 1993									
3 Publications of Classification Societies.			3 Publications of Classification Societies.						
eResources addresses Adresy na platformie eNauczanie:		eResources addresses	Adresy na platformie eNauczanie:						
Podstawy inżynierii wytwarzania PG_00060535; PG_00060585; PG_00060641 - Moodle ID: 41659 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41659			PG_00060641 - Moodle ID: 41659						
example questions/ tasks being completed hulls. Diagram of the manufacturing process of a ship. Steels for the construction of ship hulls, strength a technological requirements, mechanical properties, weldability. Storage of metallurgical materials, warehouses of plates and profiles. Prefabrication sequence of plates and profiles. Prefabrication of lobe flat sections and	cample questions/ sks being completed	hulls. Diagram of the manufacturing technological requirements, mecha warehouses of plates and profiles. components, completion. Sectional curved sections. Assembly of spati	warehouses of plates and profiles. Prefabrication sequence of plates and profiles. Prefabrication of structural components, completion. Sectional and block division of the hull. Prefabrication of lobe flat sections and curved sections. Assembly of spatial sections and blocks. Assembly of a hull on a slipway. Launching the						
Work placement Not applicable									

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