

Subject card

Subject name and code	Plastic Materials Technology, PG_00046534								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery		at the university				
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theory	ign -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor		dr hab. inż. Lech Rowiński						
of lecturer (lecturers)	Teachers		dr hab. inż. Lech Rowiński						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	10.0	10.0	0.0	0.0		0.0	20	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	activity Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	20		3.0		27.0		50	
Subject objectives	Provide student with general knowledge regarding materials and manufacturing procedures of marine plastic and composite structures as well as principles of structural calculations of boat hulls,								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems		student is able to formulate a task regarding the development of the technological process of a vessel made of polymer composites based on the principles of designing reinforced structures and the relationship between the structure and the manufacturing process			[SU1] Assessment of task fulfilment			
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		ganized n, construction	designing rein and the relatic structure and process Knows the putechnological out during the polymeric material and the relationship of the results of the relationship of the relations	nforced structur onship betweer	n the ring rse of ried of	[SW1] knowle	Assessment o	ıf factual	
Subject contents	[K6_W05] has an org knowledge on design and operation of oce:	ganized 1, construction an technology It building; Prince and duroplase olymeric resin reliar composites mensinning of a	designing rein and the relatic structure and process Knows the putechnological out during the polymeric matwith organic asts; Properties matrices and cot, handl-aying of a hull elements	rforced structure on ship between the manufacture prose and coure processes can construction of terials reinforce and inorganic firms ture used in coof polymers, suring processe of laminates and cook and cook and cook are the cook ar	rse of ried of bers omposite election des; Reinf d vaccund gluing	e engine and mo orcing f m supp g techno	eering; Structu odification. Re fibres, organic orted process ology in hull st	ire of inforced and mineral; es. Structural ructure	
Subject contents Prerequisites and co-requisites	[K6_W05] has an org knowledge on design and operation of oce objects and systems Materials used in boa polymers, thermoplas plastic composites; Pt Technology of structuelements of a hull. Direction of the composition of t	ganized 1, construction an technology It building; Prince and duroplase olymeric resin reliar composites mensinning of a	designing rein and the relatic structure and process Knows the putechnological out during the polymeric matwith organic asts; Properties matrices and cot, handl-aying of a hull elements	rforced structure on ship between the manufacture prose and coure processes can construction of terials reinforce and inorganic firms ture used in coof polymers, suring processe of laminates and cook and cook and cook are the cook ar	rse of ried of bers omposite election des; Reinf d vaccund gluing	e engine and mo orcing f m supp g techno	eering; Structu odification. Re fibres, organic orted process ology in hull st	ire of inforced and mineral; es. Structural ructure	
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Recommended reading	Basic literature	1.Dobrosz K.,Matysiak A.,Tworzywa sztuczne Warszawa WSZiP 1985
		2.Kłosowska-Wałkowicz ZKrólikowski W.,Penczek PŻywice i laminaty poliestrowe. Warszawa WNT 1980
		3.Kozłowski J.,Wilczopolski MMateriałoznawstwo okrętowe czIII Okrętowe Tworzywa Polimerowe. Gdynia WSMW 1982
		4.Królikowski W., Tworzywa wzmocnione i włókna wzmacniające. Warszawa WNT 1988
		5. Spychaj T. Spychaj D.,Farby i kleje wodorozcieńczalne Warszawa WNT 1996
		6. Żuchowska D.,Polimery konstrukcyjne. Warszawa WNT 1995
	Supplementary literature	1.Błędzki A.K. i inni: Recykling materiałów polimerowych, Wydawnictwa Naukowo Techniczne, Warszawa, 1997.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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