

Subject card

Subject name and code								
Subject harne 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	Project	t	Seminar	SUM
	Number of study hours	10.0	10.0	0.0	0.0		0.0	20
	E-learning hours inclu	uded: 0.0		1		,		
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	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					
Learning outcomes	Course out	come	Subj	ect outcome			Method of ve	rification
Learning outcomes	Course out [K6_U05] can formul engineering task and specification within the design, construction of ocean technology systems	ate a simple I its ne range of and operation	student is able regarding the technological made of polyr based on the designing rein and the relation	e to formulate a development of process of a venue composites	of the essel s res n the		Assessment o	
Learning outcomes	[K6_U05] can formul engineering task and specification within the design, construction of ocean technology	ate a simple l its ne range of and operation objects and ganized n, construction an technology	student is able regarding the technological made of polyr based on the designing rein and the relatic structure and process Knows the putechnological out during the polymeric material is a structure and process.	e to formulate a development of process of a vener composites principles of aforced structure onship between	of the essel s res n the ring rse of ried of ed	[SU1] / fulfilme	Assessment o	of task
Subject contents	[K6_U05] can formul engineering task and specification within the design, construction of ocean technology systems [K6_W05] has an org knowledge on design and operation of oce	ate a simple I its he range of and operation objects and ganized h, construction an technology It building; Princ sts and duropla olymeric resin iral composites mensinning of	student is able regarding the technological made of polyr based on the designing rein and the relatic structure and process Knows the put technological out during the polymeric mat with organic a cipal nomenclasts; Properties matrices and continuation of the polymeric matrices and	e to formulate a development of process of a vi- mer composites principles of inforced structur onship between the manufactur processes carn construction of terials reinforce and inorganic fill ture used in co- of polymers, so uring processe of laminates and contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the c	of the essel s res n the ring rse of ried of ed bers omposite election s; Reinfid vaccuind gluing	[SW1] / fulfilme	Assessment of the control of the con	of task of factual ure of einforced c and mineral; ses. Structural
	[K6_U05] can formul engineering task and specification within the design, construction of ocean technology systems [K6_W05] has an org knowledge on design and operation of oce objects and systems Materials used in boa polymers, thermoplas plastic composites; P Technology of structuelements of a hull. Di	ate a simple I its he range of and operation objects and ganized h, construction an technology It building; Princ sts and duropla olymeric resin iral composites mensinning of	student is able regarding the technological made of polyr based on the designing rein and the relatic structure and process Knows the put technological out during the polymeric mat with organic a cipal nomenclasts; Properties matrices and continuation of the polymeric matrices and	e to formulate a development of process of a vi- mer composites principles of inforced structur onship between the manufactur processes carn construction of terials reinforce and inorganic fill ture used in co- of polymers, so uring processe of laminates and contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the c	of the essel s res n the ring rse of ried of ed bers omposite election s; Reinfid vaccuind gluing	[SW1] / fulfilme	Assessment of the control of the con	of task of factual ure of einforced c and mineral; ses. Structural
Subject contents Prerequisites	[K6_U05] can formul engineering task and specification within the design, construction of ocean technology systems [K6_W05] has an orgknowledge on design and operation of oce objects and systems Materials used in boa polymers, thermoplas plastic composites; P Technology of structule elements of a hull. Diassembly. Standards	ate a simple I its he range of and operation objects and ganized h, construction an technology It building; Princ sts and duropla olymeric resin ral composites mensinning of and classificat	student is able regarding the technological made of polyr based on the designing rein and the relatic structure and process Knows the put technological out during the polymeric mat with organic a cipal nomenclasts; Properties matrices and cot, handl-aying of a hull elements on rules regard	e to formulate a development of process of a vi- mer composites principles of inforced structur onship between the manufactur processes carn construction of terials reinforce and inorganic fill ture used in co- of polymers, so uring processe of laminates and contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the c	of the essel s res n the ring rse of ried of ed bers omposite election s; Reinfid vaccuind gluing	[SU1] / fulfilme [SW1] knowle e engine and mo orcing f m supp g technology	Assessment of the control of the con	of task of factual ure of einforced c and mineral; ses. Structural structure e structures.

Data wydruku: 06.05.2024 10:43 Strona 1 z 2

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	

Data wydruku: 06.05.2024 10:43 Strona 2 z 2