

## Subject card

Date of commencement of studies		DO 00057000							
Date of commencement of studies  Education level second-cycle studies  Subject group Subject group Subject group Subject group related to scientific research in the field of study  Mode of study  Part-time studies  Mode of delivery at the university  Year of study  1 Language of instruction  Polish  Semester of study  2 ECTS credits  2 0  Learning profile  General academic profile  Assessment form  Subject supervisor  Faculty of Ocean Engineering and Ship Technology  Name and summe of lecturer (lecturers)  Lesson types and methods of instruction  Learning activity and number of study hours  Learning activity and number of study hours  Learning activity and number of study hours  Learning outcomes  Familiarize students with the methods of assembly of the ship's propulsion system and mechanisms, devices and pipelines in marine power plants.  Learning outcomes  Corne outcome  KY. Woll has an opanized, widened showledge on design, construction of cean technology  Dipolar and operation of ocean technology of propulsion systems of the ship is gingle room.  Subject contents  RY. Woll has an organized, widened showledge on design, construction and operation of ocean technology of assembly of the ship propulsion systems of this par oppropriate tools and methods, is able to compliate an advanced egipericenting task within the activity and operation of ocean technology objects and systems  RY. Woll has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems  RY. Woll has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems  RY. Woll has an organized, with the conducting of proposed production of production o	Subject name and code	, PG_00057309							
Education level   Second cycle studies   Subject group   Optional subject group   Subject group   Subject group   Subject group   Subject group related to scientific research in the field of study   Year of study   1	Field of study	Ocean Engineering							
Mode of study		February 2023					2023/2024		
Year of study	Education level	second-cycle studies		Subject group			Subject group related to scientific		
Semester of study   2   ECTS credits   2.0	Mode of study	Part-time studies		Mode of delivery			at the university		
Learning profile  Conducting unit  Faculty of Ocean Engineering and Ship Technology  Subject supervisor  I feathers  Lesson types and methods of instruction  Learning activity and number of study hours  Learning activity	Year of study	1		•			Polish		
Learning profile	Semester of study	2					2.0		
Conducting unit Name and surmame of lecturer (lecturers)   Subject supervisor   Greaters   Greaters   Greaters   Greaters   Casson types and methods of instruction   Casson types and methods   Casson type   Lecture   Tutorial   Laboratory   Project   Seminar   SUM   Number of study   9.0   0.0   0.0   0.0   9.0   0.0   18   Number of study   9.0   0.0   0.0   0.0   9.0   0.0   18   Number of study   Number of study   Participation in didactic classes included in study plan   Number of study   18   4.0   28.0   50   50   Number of study   Number of study   18   4.0   28.0   50   50   Number of study   Number of Stud	Learning profile	general academic profile					assessment		
Name and surmame of lecturer (lecturers)   Teachers		Faculty of Ocean Eng	ineering and S						
Lesson types and methods of instruction   Lesson types and methods of instruction   Subject on the struction   Subject objectives   Learning activity and number of study hours   Participation in didactic classes included in study plan   Participation in didactic classes included in the ship's propulsion system and preparation of ocean technology objects and systems   Participation of propelled and participation of ocean technology objects and systems   Participation of propelled and participation		Subject supervisor	<u> </u>						
Of instruction  Number of study hours  E-learning hours included: 0.0  Learning activity and number of study hours  Number of study hours  Learning activity  I carning activity  Learning activity  I carning activity  I all a carning activity  I carning activity  I carning and presented in study  I all a carning activity  I carning activity  I all a carning activated in study  I all a carning and methanisms of assembly of the ship's engine room.  I Student is she to propose the technology of assembly of the ship present the results of task moving and acceptance acts and acceptance acts and acceptan		Teachers							
Of instruction   Number of study   9.0   0.0   0.0   0.0   9.0   0.0   18	Lesson types and methods	Lesson type				utorial Laboratory Proiect			SUM
Learning activity and number of study hours   Learning activity   Participation in didactic classes included in study hours   Number of study hours   18			9.0	0.0	0.0			0.0	18
Consultation hours   Consultation hours		E-learning hours inclu	ided: 0.0	ed: 0.0					
Subject objectives		Learning activity	classes includ				Self-study		SUM
Course outcome   Subject outcome   Method of verification			18		4.0		28.0		50
R/T_W06  has an organized, widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and systems   R/T_U07  in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete an advanced engineering task within the range of design, construction and operation of ocean technology objects and systems   R/T_W05  has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems   R/T_W05  has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems   R/T_W05  has an organized, widened knowledge on design, construction and operation of ocean technology of assembly of mechanisms and devices in the ship's engine room.   Rules for the layout of ship power plants. Determining the theoretical axis of the shaft line. Installation of shaft line components. Installation of propelliers on the ship. Welding of pipelines and transmission gears in an engine room. Ship pipelines. Methods of production of pipelines on the ship. Welding of pipelines and praction against corrosion Tests of pipelines, littings and pressure vessels. Thermal insulation on ships. Plastics applications. Testing and acceptance tests - machine part.    Prerequisites and correquisites   Subject passing criteria   Passing threshold   Percentage of the final grade   Project presentation   100.0%   50.0%	Subject objectives								
widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and systems    [K7_U07] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete an advanced engineering task within the range of design, construction and operation of ocean technology objects and systems    [K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems    [K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems    K1   W05   has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems    K2   W05   has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems    W1   Student is able to propose the technology of assembly of the ship propulsion system components, mechanisms, devices and pipelines in the machinery room.    W2   W1   Assessment of factual knowledge in the field of technology of assembly of propulsion systems of ships and principles of layout and assembly of mechanisms and devices in the ship's engine room.    W2   Student is able to propose the technology of assembly of the ship propulsion systems of ships and principles of layout and assembly of mechanisms and devices in the ship's engine room.    Subject contents   Rules for the layout of ship power plants. Determining the theoretical axis of the shaft line. Installation of shaft line components. Installation of propellers on the shaft. Transportation and assembly of main engines and transmission gears in an engine room. Ship pipelines. Methods of production of pipeline's sections. Assembly, fixing, connection of pipel	Learning outcomes	Course outcome Subject outcome Method of verification							
formulated specification and with the aid of appropriate tools and methods, is able to complete an advanced engineering task within the range of design, construction and operation of ocean technology objects and systems    K7_W05  has an organized, widened knowledge on design, construction and operation of ocean technology objects and ocean technology objects and systems    K7_W05  has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems    The student has knowledge in the field of technology of assembly of propulsion systems of ships and principles of layout and assembly of mechanisms and devices in the ship's engine room.    Subject contents   Rules for the layout of ship power plants. Determining the theoretical axis of the shaft line. Installation of shaft line components. Installation of propellers on the shaft. Transportation and assembly of main engines and transmission gears in an engine room. Ship pipelines. Methods of production of pipeline's sections. Assembly, fixing, connection of pipelines on the ship. Welding of pipelines and protection against corrosion. Tests of pipelines, fittings and pressure vessels. Thermal insulation on ships. Plastics applications. Testing and acceptance tests - machine part.    Prerequisites		widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and		tools and methods useful in the process of assembling of the					
widened knowledge on design, construction and operation of ocean technology objects and systems   field of technology of assembly of propulsion systems of ships and principles of layout and assembly of mechanisms and devices in the ship's engine room.    Rules for the layout of ship power plants. Determining the theoretical axis of the shaft line. Installation of shaft line components. Installation of propellers on the shaft. Transportation and assembly of main engines and transmission gears in an engine room. Ship pipelines. Methods of production of pipeline's sections. Assembly, fixing, connection of pipelines on the ship. Welding of pipelines and protection against corrosion. Tests of pipelines, fittings and pressure vessels. Thermal insulation on ships. Plastics applications. Testing and acceptance tests - machine part.    Prerequisites and co-requisites   Subject passing criteria   Passing threshold   Percentage of the final grade   Project presentation   100.0%   50.0%		formulated specification and with the aid of appropriate tools and methods, is able to complete an advanced engineering task within the range of design, construction and operation of ocean technology		technology of assembly of the ship propulsion system components, mechanisms, devices and					
shaft line components. Installation of propellers on the shaft. Transportation and assembly of main engines and transmission gears in an engine room. Ship pipelines. Methods of production of pipeline's sections. Assembly, fixing, connection of pipelines on the ship. Welding of pipelines and protection against corrosion Tests of pipelines, fittings and pressure vessels. Thermal insulation on ships. Plastics applications. Testing and acceptance tests - machine part.  Prerequisites  Assessment methods and criteria  Subject passing criteria Passing threshold Percentage of the final grade Project presentation  100.0%  Project presentation  Project presentation  Project presentation  Project presentation  Project presentation		widened knowledge on design, construction and operation of ocean technology objects and		field of technology of assembly of propulsion systems of ships and principles of layout and assembly of mechanisms and devices in the					
and co-requisites  Assessment methods and criteria  Subject passing criteria  Passing threshold  Percentage of the final grade  100.0%  50.0%	Subject contents	shaft line components. Installation of propellers on the shaft. Transportation and assembly of main engines and transmission gears in an engine room. Ship pipelines. Methods of production of pipeline's sections. Assembly, fixing, connection of pipelines on the ship. Welding of pipelines and protection against corrosion. Tests of pipelines, fittings and pressure vessels. Thermal insulation on ships. Plastics applications. Testing							
and criteria Project presentation 100.0% 50.0%		Knowledge from the subject: ship power plants.							
110,00 procentation 100.0 %		Subject passing criteria		Passing threshold			Percentage of the final grade		
Written test 50.0% 50.0%	and criteria	Project presentation		100.0%			50.0%		
		Written test	50.0%			50.0%			

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Recommended reading	Basic literature	<ol> <li>Doerffer J.: Organizacja produkcji w stoczni. Wydawnictwo Morskie. Gdańsk, 1971 r.</li> <li>Doerffer J.: Technologia wyposażania statków. Wydawnictwo Morskie. Gdańsk, 1975 r.</li> <li>Szarejko J.: Poradnik instalatora rurociągów okrętowych. Wydawnictwo Morskie. Gdańsk, 1985 r.</li> <li>Piaseczny L. Technologia polimerów w remontach okrętów. Gdańskie Towarzystwo Naukowe. Gdańsk 2002.</li> <li>PRS: Przepisy klasyfikacji i budowy statków morskich.</li> </ol>				
	Supplementary literature	Technical and operational documentation of ship machinery and equipment.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Perform and present a project in the field of assembly of the ship power plant.  Discuss the principles of assembly of components of the ship propulsion system.					
Work placement	Not applicable					

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