

## Subject card

Date of commencement of studies	Subject name and code	Offshore Systems, PG_00046542									
Education level first-cycle studies Subject group   Mode of study Part-time studies Mode of delivery at the university  Year of study 4	Field of study	Ocean Engineering, Ocean Engineering									
Mode of study		October 2020					2023/2024				
Year of study  4 Language of instruction Polish  Semester of study  8 ECTS credits 2.0  Learning profile general academic profile Assessment form assessment  Conducting unit Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology  Name and surname of lecturer (lecturers)  Lesson types and methods of instruction  Lesson types and methods of instruction  Learning activity  and number of study hours  Learning activity  and number of study hours  Learning activity  The lam of the course is to familiarize students with the methods of obtaining raw materials, including crude oil and natural gas from under the seabed as well as obtaining energy from renewable sources on the example of offshore wind farms.  Learning outcomes  Course outcome  (KG, MOS) has an organized knowledge of the principles of sustainable development  (KG, LOS) has an organized systems  (KG, LOS) has no reparation and operation of ocean technology objects and systems  (KG, LOS) has no reparation and operation of ocean technology objects and systems  (KG, LOS) has no reparation and operation of ocean technology objects and systems  (KG, LOS) has no reparation and operation of ocean technology objects and systems  (KG, LOS) has no reparation and operation of ocean technology objects and systems  (KG, LOS) has no reparation and operation of ocean technology objects and systems  (KG, LOS) has no reparation of the principles of sustainable development  The course material includes knowledge off- methods of searching for crude oil and natural gas under the seabed - installation and construction of individual elements of the oil field - basic offshore defining are construction, and projects of the principles of sustainable development in the course of individual elements of the oil field - basic offshore defining are construction, engineering the course of individual investment stages, starting with the conceptual design, ending with operation of the oil field (FSU reparations, offshore wind farm locati	Education level	first-cycle studies		Subject group							
Semester of study  Learning profile  General academic profile  Jearning profile  Conducting unit  Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering Ship Technology -> Faculty of Mechanical Engineering Ship Technology -> Faculty of Mechanical Engineering Ship Technology -> Faculty of Mechanical Eng	Mode of study	Part-time studies		Mode of delivery			at the university				
Learning profile general academic profile Assessment form assessment  Conducting unit Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology -> Faculty -> Facu	Year of study			Language of instruction			Polish				
Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology -> Faculty	Semester of study	8		ECTS credits			2.0				
Technology	Learning profile	general academic profile		Assessment form			assessment				
Course outcome   Subject out	Conducting unit		hip Technology -> Faculty of Mechanical Engineering and Ship								
Lesson types and methods of instruction    Learning activity		Subject supervisor		dr inż. Jacek Nakielski							
Number of study   20.0   0.0   0.0   0.0   0.0   0.0   0.0   20	of lecturer (lecturers)	Teachers		dr inż. Jacek Nakielski							
Number of study   20.0   0.0   0.0   0.0   0.0   0.0   20	Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
Learning activity and number of study hours    Learning activity   Participation in didactic classes included in study plan   3.0   27.0   50		hours		0.0	0.0			0.0	20		
Calsases included in study   Consultation hours											
Subject objectives		classes includ					Self-study		SUM		
il and natural gas from under the seabed as well as obtaining energy from renewable sources on the example of offshore wind farms.  Course outcome  Subject outcome  Method of verification  [K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems  [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  [K6_W08] has knowledge of the principles of sustainable development  Swylems  [K6_W08] has knowledge of the principles of sustainable development  The course material includes knowledge of- methods of searching for crude oil and natural gas under the seabed,- installation and construction of individual elements of the oil field,- basic offshore drilling methods, methods of laying submarine pipelines,- the type of ocean engineering facilities for offshore works, including drilling and construction, equipment and equipment for the construction and operation of the oil field (FSU/FSO, FPSU/FSO, FPSU, oilling and production platforms),- offshore crude oil and natural gas releading operations,- offshore wind farm locations,- installation and construction of wind farms,- production of renewable energy Polish and international regulations and institutions supervising the course of individual investment stages, starting with the conceptual design, ending with operation and distribution. Wiecej o teksice źródlowymWskaż tekst źródlowy, by wyświetlić dodatkowe Informacje o tłumaczeniuPrześlij opinięPanele boczne			20		3.0		27.0		50		
[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems   [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   [K6_W08] has knowledge of the principles of sustainable development   [SW3] Assessment of knowledge contained in written work and projects   [SW2] Assessment of knowledge contained in written work and projects   [SW2] Assessment of knowledge contained in presentation   [SW1] Assessment of factual knowledge contained in presentation   [SW1] Assessment of factual knowledge contained in presentation   [SW1] Assessment of factual knowledge of: methods of searching for crude oil and natural gas under the seabed, installation and construction of individual elements of the oil field, basic offshore drilling methods, methods of laying submarine pipelines, the type of ocean engineering facilities for offshore works, including drilling and construction, equipment and equipment for the construction and operation of the oil field (FSU / FSO, FPSU / FPSO, FPDSO, drilling and production platforms), offshore crude oil and natural gas reloading operations, offshore wind farm locations, installation and construction of wind farms, production of renewable energy, Polish and international regulations and institutions supervising the course of individual investment stages, starting with the conceptual design, ending with operation and distribution. Więcej o tekście z/ródłowymWskaż tekst źródłowy, by wyświetlić dodatkowe informacje o tłumaczeniuPrześlij opinięPanele boczne	Subject objectives	oil and natural gas from under the seabed as well as obtaining energy from renewable sources on the									
Iknowledge on design, construction and operation of ocean technology objects and systems   IK6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems   IK6_W08] has knowledge of the principles of sustainable development   IK6_W08] has knowledge of the principles of sustainable development   IK6_W08] has knowledge of the principles of sustainable development   IK6_W08] has knowledge contained in presentation   IK6_W08] has knowledge of: methods of searching for crude oil and natural gas under the seabed, installation and construction of individual elements of the oil field, basic offshore drilling methods, methods of laying submarine pipelines, the type of ocean engineering facilities for offshore works, including drilling and construction, equipment and equipment for the construction and operation of the oil field (FSU / FSO, FPSU / FPSO, FPDSO, drilling and production platforms), offshore crude oil and natural gas reloading operations, offshore wind farm locations, installation and construction of wind farms, production of renewable energy, Polish and international regulations and institutions supervising the course of individual investment stages, starting with the conceptual design, ending with operation and distribution.Wiecej o tekscie zródlowymWskaż tekst źródlowy, by wyświetlić dodatkowe informacje o tłumaczeniuPrześlij opiniePanele boczne	Learning outcomes	Course out	Subject outcome			Method of verification					
engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems  [K6_W08] has knowledge of the principles of sustainable development  [SW2] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge contained in presentation [SW1] Assessment of factual knowledge installation and construction of individual elements of the oil field,- basic offshore drilling methods,- methods of laying submarine pipelines,- the type of ocean engineering facilities for offshore works, including drilling and construction, equipment and equipment for the construction and operation of the oil field (FSU / FSO, FPSU / FPSO, FPDSO, drilling and production platforms)- offshore crude oil and natural gas reloading operations,- offshore wind farm locations,- installation and construction of wind farms,- production of renewable energy, - Polish and international regulations and institutions supervising the course of individual investment stages, starting with the conceptual design, ending with operation and distribution Wiecej o tekście źródłowymWskaż tekst źródłowy, by wyświetlić dodatkowe informacje o tłumaczeniuPrześlij opinięPanele boczne  Prerequisites  and co-requisites		knowledge on design, construction and operation of ocean technology									
principles of sustainable development contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge  The course material includes knowledge of:- methods of searching for crude oil and natural gas under the seabed,- installation and construction of individual elements of the oil field,- basic offshore drilling methods,- methods of laying submarine pipelines,- the type of ocean engineering facilities for offshore works, including drilling and construction, equipment and equipment for the construction and operation of the oil field (FSU / FSO, FPSU / FPSO, FPDSO, drilling and production platforms),- offshore crude oil and natural gas reloading operations,- offshore wind farm locations,- installation and construction of wind farms,- production of renewable energy,- Polish and international regulations and institutions supervising the course of individual investment stages, starting with the conceptual design, ending with operation and distribution.Więcej o tekście źródłowymWskaż tekst źródłowy, by wyświetlić dodatkowe informacje o tłumaczeniuPrześlij opinięPanele boczne  Prerequisites  and co-requisites		engineering task and its specification within the range of design, construction and operation of ocean technology objects and									
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and co-requisites	Subject contents	seabed,- installation and construction of individual elements of the oil field,- basic offshore drilling methods,- methods of laying submarine pipelines,- the type of ocean engineering facilities for offshore works, including drilling and construction, equipment and equipment for the construction and operation of the oil field (FSU / FSO, FPSU / FPSO, FPDSO, drilling and production platforms),- offshore crude oil and natural gas reloading operations,- offshore wind farm locations,- installation and construction of wind farms,- production of renewable energy,- Polish and international regulations and institutions supervising the course of individual investment stages, starting with the conceptual design, ending with operation and distribution. Więcej o tekście źródłowymWskaż tekst źródłowy, by wyświetlić dodatkowe informacje o tłumaczeniuPrześlij									
Assessment methods Subject passing criteria Passing threshold Percentage of the final grade											
	Assessment methods	Subject passing criteria		Pass	ing threshold		Percentage of the final grade				
and criteria 50.0% 100.0%	and criteria			50.0%			100.0%				
Recommended reading Basic literature -	Recommended reading	Basic literature	-	-							

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	Supplementary literature	-
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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