



Subject card

Subject name and code	Coastal zone - elective diploma seminar , PG_00054617						
Field of study	Spatial Development						
Date of commencement of studies	February 2026		Academic year of realisation of subject		2026/2027		
Education level	second-cycle studies		Subject group				
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		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. arch. Karolina Krośnicka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	30.0	30
	E-learning hours included: 0.0						
	Additional information:						
	The subject of MK_12 / 2 packages consists of 2 seminar blocks:						
	12/2/1 - Designing of selected port terminals - 15 hours of exercises (Karolina Krośnicka)						
	12/2/2 - Integrated coastal zone management - 15 hours of exercises (Magdalena Matczak)						
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	30		0.0		0.0	30
Subject objectives	The aim of the block 12/2/1 is to familiarize the student with the specificity of the organization and research of a complex transport node, which is a seaport, as well as the spatial planning of designing port terminals. The aim of the block 12/2/2 is to understand Integrated Coastal Management in line with the sustainable growth principle. Presentation of broad relations and spatial, economic, social and ecological connections between sea and coastal areas with various functions.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_W03] has an extended and in-depth knowledge of environmental issues needed to formulate and solve complex spatial development tasks	..	[SW1] Assessment of factual knowledge
	[K7_W04] has in-depth knowledge of issues and technical systems related to the planning, design and implementation of infrastructure projects and urban planning, as well as the life cycle of facilities and systems related to the operation of settlement units	...	[SW3] Assessment of knowledge contained in written work and projects
	[K7_U04] plans and carries out computer simulations; uses information and communication technologies in an advanced way; interprets the obtained results and draws conclusions on phenomena related to spatial development	...	[SU1] Assessment of task fulfilment
	[K7_K01] critically evaluates the received content, understands the importance of knowledge in solving cognitive and practical problems, evaluates the risks and can assess the consequences of the activities carried, undertakes in-depth reflection on scientific, ethical and social issues related to the work of urban planner and planner	...	[SK5] Assessment of ability to solve problems that arise in practice
Subject contents	Course content – seminar 1. Design rules for selected port terminals 12/2/1 1.1. Terminal layout. 1.2. Organization of functional zones. 1.3. Operational issues, the operation of the terminal (terminal equipment, way of work) and their impact on its spatial arrangement. 1.4. Transport system serving the terminal (railway, road, pipeline system, inland navigation). 1.5. Elements of technical terminal equipment and their spatial dimension. 1.6. The method of integrating the terminal into the transport system of the port, city, agglomeration and region. 2. Integrated coastal zone management 12/2/2 2.1. Genesis, basics of implementation and goals of ICZM. 2.2. Legal basis: directives, ordinances, recommendations and EU guidelines, other international conventions 2.3. Legal basis and the state of implementation of ICZM in Poland. 2.4. Cross-border cooperation. 2.5. Defining the public interest in the coastal area. Principles of joint spatial management of coastal areas. 2.6. The role of individual government and self-government administration bodies in the implementation of ICZM. Examples: Coastal Service Area NORDA 2020, Logistic Valley. 2.7. INSPIRE directive. 2.8. Indicators and Measures of Sustainable Development of Coastal Areas - Projects Deduce and SDI4SEB. Applications of remote sensing and GIS in coastal zone management. 2.9. Coastal zone monitoring - GMES and Copernicus programs. Więcej o: 11		
Prerequisites and co-requisites	Completed courses from MK_3, MK_8 and MK_9 modules at the ICZM specialization; can work in the GIS environment.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	block 12/2/1 - written exam	100.0%	50.0%
	block 12/2/2 - presentation	100.0%	50.0%

Recommended reading	Basic literature Block 12/2/1 • Agerschou H., Dand I., Ernst T., <i>Planning and design of ports and marine terminals</i>, wyd. drugie., Thomas Telford Ltd, 2004. • Böse J. W., <i>Handbook of Terminal Planning</i>. Springer-Verlag New York, 2011. • Gaythwaite J.W., <i>Design of Marine Facilities for the Berthing, Mooring, and Repair of Vessels</i>. Amer Society of Civil Engineers, 2004. • Krośnicka K. A., Przestrzenne aspekty kształtowania i rozwoju morskich terminali kontenerowych, Wydawnictwo PG, 2016. • Mazurkiewicz B. Wiśniewski F., <i>Morskie budowle hydrotechniczne. Zalecenia do projektowania, wykonywania i utrzymania</i>. Fundacja Promocji POiGM, Gdańsk 2015. • PIANC (Permanent International Association of Navigational Conferences) • Thoresen C., <i>Port designers handbook. Recommendations and guidelines</i>. Thomas Telford, London, 2003. • Tsinker P. (ed.), <i>Port engineering. Planning. Construction. Maintenance and security</i>. Wiley & Sons, 2004. Block 12/2/2 • Dyrektywa Parlamentu Europejskiego i Rady 2014/89/UE z dnia 23 lipca 2014 r. ustanawiająca ramy planowania przestrzennego obszarów morskich. • Dyrektywa Parlamentu Europejskiego i Rady ustanawiająca ramy planowania przestrzennego obszarów morskich oraz zintegrowanego zarządzania strefą przybrzeżną (COM(2013) 133 final). • Furmańczyk K. (red.), <i>Zintegrowane Zarządzanie Obszarami Przybrzeżnymi w Polsce stan obecny i perspektywy</i>, tom 4 Zagrożenia i systemy ostrzegania. Uniwersytet Szczeciński, 2012. • Furmańczyk K., Gąbiński Z. (red.), <i>Zintegrowane Zarządzanie Obszarami Przybrzeżnymi w Polsce stan obecny i perspektywy</i>, tom 5 Turystyka na nadmorskich obszarach Natura 2000 nauka i praktyka. Uniwersytet Szczeciński, 2014. • <i>Raport o bieżącej polityce, procedurach, podstawach prawnych i praktyce planowania przestrzennego przygotowany w ramach projektu INTERREG III B CADSES PlanCoast</i> (http://pbpr.pomorskie.eu/zzop#) • <i>Studium Możliwości Wdrożenie ZZOP w Województwie Pomorskim</i> (http://pbpr.pomorskie.eu/zzop#) • Sustainable Development Indicators for ICZM in the South-Eastern Balic (http://www.corpi.ku.lt/SDI-4-SEB/foreward2.html) • Zaucha J. (red.), <i>Planowanie przestrzenne obszarów morskich. Polskie uwarunkowania i plan pilotażowy</i>. Instytut Morski w Gdańsku, Gdańsk, 2009. • Zaucha J. (red.), <i>Studium uwarunkowań zagospodarowania przestrzennego polskich obszarów morskich wraz z analizami przestrzennymi</i>. Instytut Morski, Gdańsk, 2015 (http://www.umgd.gov.pl/?cat=96) • Dyrektywy UE, konwencje, ustawy i rozporządzenia, KPZK 2030, strategię rozwojowe portów morskich
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	Supplementary literature	Block 12/2/1 - Gucma S. (red.), <i>Morskie terminale promowe projektowanie i eksploatacja w ujęciu inżynierii ruchu</i>. Wyd. Fundacja Promocji POiGM, 2015 - Mazurkiewicz B. (red.), <i>Morskie budowle hydrotechniczne. Zalecenia do projektowania i wykonywania Z 1 - Z 45</i>. wydanie V, Fundacja Promocji POiGM, Gdańsk 2008. - UNCTAD, <i>Port development. A handbook for planners in developing countries</i>. Block 12/2/2 - Coastlearn A multimedia distance training package on Integrated Coastal Zone Management EUCC, 2006. - Furmańczyk K. (red.), <i>Zintegrowane Zarządzanie Obszarami Przybrzeżnymi w Polsce stan obecny i perspektywy</i>, tom 2 Brzeg morski zrównoważony. Uniwersytet Szczeciński, 2006. - Furmańczyk K. (red.), <i>Zintegrowane Zarządzanie Obszarami Przybrzeżnymi w Polsce stan obecny i perspektywy</i>, tom 3 Morze łąd wzajemne relacje. Uniwersytet Szczeciński, 2008. <i>Indicators Guidelines. To adopt an indicators-based approach to evaluate coastal sustainable development</i> (http://www.im.gda.pl/images/ksiazki/2007_indicators_guidelines.pdf). - Musielak S., Osóch P., Rabski K. (red.), <i>Transgraniczne zarządzanie wodami przejściowymi kodeks postępowania i przykłady dobrych praktyk</i>. Szczecin, 2013. <i>Polska dla Bałtyku</i>. Główny Inspektorat Ochrony środowiska, 2012. - Schultz-Zehden A., Gee K., Scibior K., <i>Handbook on Integrated Maritime Spatial Planning</i>. S.PRO., Berlin, 2008 (http://www.plancoast.eu/files/handbook_web.pdf). http://ec.europa.eu/ourcoast/index.cfm?menuID=19
	eResources addresses	
	Example issues/ example questions/ tasks being completed	1. Zoning of the port terminal (e.g. container, specialized mass). 2. Impact of the port terminal on the area of the port agglomeration and the region. 3.Characteristics of threats to the coastline and the coastal zone's environment. 4. Legal basis of ICZM in Poland. 5. Goals and tasks of the Copernicus program. 6. Indicators and measures of sustainable development of coastal areas.
Practical activities within the subject	Not applicable	

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