

## Subject card

Subject name and code	Remote Detection and Location of Objects, PG_00049433								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2027/2028			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Marine Electronic Systems -> Faculty of Electronics, Telecommunications and Informatics						Informatics		
Name and surname	Subject supervisor		dr hab. inż. Jacek Marszal						
of lecturer (lecturers)	Teachers		dr hab. inż. Jacek Marszal						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0	15.0		15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	The aim of the course is to familiarize students with the foundations of navigation theory as well as construction and use of maritime navigation devices.								
Learning outcomes	Course out	come	Subject outcome				Method of verification		
	[K6_U09] can carry of analysis of the function existing technical solution apply experience relamaintenance of technical devices and facilities the field of studies, given professional engineer environment	The student is able to make a critical analysis of the functioning of existing technical solutions of remote detection systems.			[SU5] Assessment of ability to present the results of task				
[K6_K02] is ready to critically assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive and practical problems			Students iare ready to critically assess their knowledge in the field of remote object detection.			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	Organizational matters: credit rules, preparation of speeches, consultations, literature     Discussion of the seminar topics:         - Systems for remote detection and location of meteorological objects,         - Systems for remote detection and location of flying objects,         - Systems for remote detection and location of circular objects,         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating and underwater objects         - Systems for remote detection and location of floating objects,								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Evaluation of the presentation		60.0%			100.0%			

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Recommended reading	Basic literature	<ol> <li>Z. Czekała, Parada radarów, <i>Dom Wydawniczy Belona</i>, Warszawa 1999.</li> <li>R. Salamon, Systemy hydrolokacyjne, Wydawnictwo Gdańskie 2006.</li> <li>M. Skolnik, Radar Handbook Second Edition <i>McGrawHill 1990</i>.</li> <li>M. Skolnik, Introduction to Radar Systems.</li> <li>N. Levanon, Radar Signals, <i>Wiley 2004</i>.</li> <li>R. Wawruch, ARPA – zasada działania i wykorzystania <i>WSM 2001</i>.</li> <li>Pub.1310, Radar Navigation and Maneuvering Board Manual, National Imagery and Mapping Agency, Maryland, 2001.</li> </ol>
	Supplementary literature	Current websites of remote object detection systems.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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