



1. Subject name		Theory of Ships III.			
2. Subject name in Hungarian		Hajók elmélete III.			
3. Code	BMEKOVRM616	4. Evaluation type	exam grade	5. Credits	3
6. Weekly contact hours	2 (9) Lecture	1 (5) Practice	0 (0) Lab		
7. Curriculum	Vehicle Engineering MSc (J)	8. Role	Specialization (sp) at Vehicle Engineering MSc (J)		
9. Working hours for fulfilling the requirements of the subject					90
Contact hours	42	Preparation for seminars	8	Homework	15
Reading written materials	10	Midterm preparation	0	Exam preparation	15
10. Department	Department of Aeronautics and Naval Architectures				
11. Responsible lecturer	Dr. Simongáti Győző				
12. Lecturers	Dr. Simongáti Győző				
13. Prerequisites					
14. Description of lectures					
Floatation and stability of damaged and grounded ships. Floodable length calculation. Deterministic and probabilistic methods for calculation of damaged stability. Stability of unconventional ships (such as split barges, floating cranes, etc.)					
15. Description of practices					
Stability calculations of different vessel types.					
16. Description of laboratory practices					
17. Learning outcomes					
A. Knowledge					
<ul style="list-style-type: none">• know and understand the methods for damaged stability calculations,• know and understand the methods for grounded ship flotation and stability calculations,• know and understand the methods for calculation of floodable length,• know and understand the methods for deterministic and probabilistic damaged stability calculations,• know and understand the calculation methods for floating cranes, split barges,• know the softwares supporting the above calculations,• know and understand the rules and regulations for damaged stability calculations,• know the methods for preparing damaged stability documentation.					
B. Skills					
<ul style="list-style-type: none">• able to find and interpret relevant rules,• able to perform damaged stability calculations and prepare documentation, and• able to interpret the results of calculations from the designers point of view.					
C. Attitudes					
<ul style="list-style-type: none">• interested, responsive, take care for the deadlines.					
D. Autonomy and Responsibility					
<ul style="list-style-type: none">• the student makes responsible decisions,• asks for the professional opinions of others, and• takes care of the challenges responsibly.					
18. Requirements, way to determine a grade (obtain a signature)					
Requirements for signature: 1 report and submission of the seminar report					
1 exam measuring the theoretical knowledge					
the final result is the average of the parts					
19. Opportunity for repeat/retake and delayed completion					
Second exam and delayed submission of the homework					

20. Learning materials

Related national and international scientific literature

Effective date	10 October 2019	This Subject Datasheet is valid for	Inactive courses
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