Faculty of Maritime Studies / MARINE ENGINEERING / SHIP KNOWLEDGE

Course:	SHIP KNOWLEDGE			
Course ID	**Course status**	**Semester**	**ECTS credits**	**Lessons** (Lessons+Exercises+Laboratory)
10240	Mandatory	2	5	2+2+0
Programs	MARINE ENGINEERING			
Prerequisites				
Aims	To obtain knowledge on ship and ship's parameters. Geometry, form, stability and structure.			
Learning outcomes	Knowledge on ship and ship's parameters. Geometry, form, stability and structure.			
Lecturer / Teaching assistant	Dr. Nikola Momčilović Mr. Milan Krivokapić			
Methodology	Theoretical and practical (calculations) lectures.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Main particulars. Form. Parameters.			
I week exercises	Theoretical lecture renewal and production of calculations.			
II week lectures	Coefficients of ship form. Simpson's rule.			
II week exercises	Theoretical lecture renewal and production of calculations.			
III week lectures	Hydrostatics, parameters dependence on draught. Loading and unlaoding of ships.			
III week exercises	Theoretical lecture renewal and production of calculations.			
IV week lectures	Ship theory. The basics of floating bodies.			
IV week exercises	Theoretical lecture renewal and production of calculations.			
V week lectures	The basics of ship stability. Still water conditions. Small angles.			
V week exercises	Theoretical lecture renewal and production of calculations.			
VI week lectures	Loading conditions and their impact on stability. Mass movement, cranes, wind effect.			
VI week exercises	Theoretical lecture renewal and production of calculations.			
VII week lectures	Loading conditions and their impact on stability - continued. Criteria, regulations, IMO.			
VII week exercises	Theoretical lecture renewal and production of calculations.			
VIII week lectures	Inclination test, theory.			
VIII week exercises	Theoretical lecture renewal and production of calculations.			
IX week lectures	More detail analysis on stability (free surface effect).			
IX week exercises	Theoretical lecture renewal and production of calculations.			
X week lectures	Renewal of lectures. Colloquium I.			
X week exercises	Theoretical lecture renewal and production of calculations.			
XI week lectures	Basics of longitudinal stability, trim.			
XI week exercises	Theoretical lecture renewal and production of calculations.			
XII week lectures	Loading condition involving longitudinal movement of mass.			
XII week exercises	Theoretical lecture renewal and production of calculations.			
XIII week lectures	Basics of ship structures.			
XIII week exercises	Theoretical lecture renewal and production of calculations.			
XIV week lectures	Longitudinal strength.			
XIV week exercises	Theoretical lecture renewal and production of calculations.			
XV week lectures	Ship resistance and propulsion. Ship equipment, ship systems.			
XV week exercises	Theoretical lecture renewal and production of calculations.			
Student workload	Classes 2+2			

Per week	Per semester
5 credits x 40/30=6 hours and 40 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises **2 hour(s) i 40 minuts** of independent work, including consultations	Classes and final exam: **6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts** Necessary preparation before the beginning of the semester (administration, registration, certification): **6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts** Total workload for the subject: **5 x 30=150 hour(s)** Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) **30 hour(s) i 0 minuts** Workload structure: **106 hour(s) i 40 minuts (cources), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work)**
Student obligations	To regularly attend the classes. Seminar paper production.
Consultations	Every workday.
Literature	Presentations and materials given by the lecturers. Dokkum: Ship Knowledge. A. Lompar: Nauka o brodu, D.R. Derrett: Ship Stability for Masters and Mates.
Examination methods	Colloquiums. Semina papers.
Special remarks	
Comment	

Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points