

Discipline	STRUCTURE and STRENGHT of SHIPS-2 code: 39		2nd Semester Third Year
Specialty	NAVAL ARCHITECTURE AND MARINE TECHNOLOGY		
ECTS credits: 6	Form of assessment: EXAM		
Lecturer	Assist. prof. Yordan Denev Room 418a M Phone: +359 52 383 384 E-mail: y.denev@tu-varna.bg		
Department	Department of Naval Architecture, Marine Engineering		
Faculty	Faculty of Shipbuilding		
Learning objectives:			
/ANNOTATION/ The discipline introduces students to basic principles of ship design, acting forces applied to floating vessels and structures, various scenarios of acting forces and loads, issues related to hull girder and local strength of the ships structure.			
CONTENTS:			
Structural design principles			
Dynamic load cases			
Ship motions and accelerations			
Hull girder loads			
External and internal loads			
Design load scenarios			
Hull girder yielding, ultimate and residual strength			
Load application			
Minimum thickness			
Plating			
Stiffeners			
Primary supporting members and pillars			