
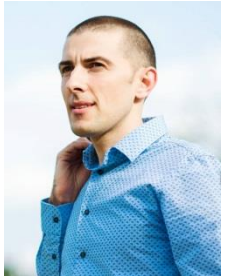


Discipline	CAD Systems for Ships and Marine Structures		code: 57	8 semester /summer/
Specialty	Naval Architecture and Marine Technology			
ECTS credits: 6	Form of assessment: exam			
Lecturer	Assoc. Prof. PhD Petar Georgiev Assist. Prof. Lichko Naydenov Room 418a M Phone: +359 52 383 384 E-mail: petar.ge@tu-varna.bg	 		
Department	Naval Architecture and Marine Engineering			
Faculty	Shipbuilding Faculty			
<p>Learning objectives:</p> <p>The course aims to provide basic information about the application of CAD systems in the various stages of the ship design - Conceptual design, Basic design, and Detail design. The mathematical foundations of modern CAD systems - NURBS, Bezier Curve, Coons Patches etc. are presented. More attention was paid to the practical work, with some of the modern systems, by the leadership of Lichko Naysenov - an expert in working with the HULL module of AVEVA Marine. Exercises include acquaintance with Rhino, AVEVA Marine and FORAN.</p>				
CONTENTS:				
	Training Area	Hours lectures	Hours laboratory exercises+ course work	
	Implementation of the CAD systems in ship design	5	1	
	Mathematical background of the modern CAD systems	5	1	
	Conceptual ship design framework for designing commercial ships	5	3	
	Practical work with Rhino	-	10	
	Practical work with Rhino	-	15	
	Practical work with FORAN (Initial design)	-	15	
	TOTAL:	60 h	15	45