Discipline	**Technical Documentation code: 3 1 semester /winter/**	
Specialty	**Naval Architecture and Marine Technology**	
ECTS credits: **8**	Form of assessment: **Inter-semester Evaluation**	
Lecturer	**Assist. Prof. Eng.** **Sonya Vachinska-Aleksandrova, PhD** **Room 508M** **Phone: +359 52 383 531** **E-mail: s_vachinska@abv.bg** **s_vachinska@tu-varna.bg**	
Department	Manufacturing Technologies and Machine Tools	
Faculty	Faculty of Manufacturing Engineering and Technologies	

Learning objectives:

In the subject „TECHNICAL DOCUMENTATION“ students will development of graphical representation skills associated with systems and industrial products. With this course they will be able to produce and transmit ideas, concepts and carry out small design projects using manual drawing. activity every engineer uses sectional thinking, imagination and skills for graphic and drawing work. The course provides knowledge about the requirements of the standards, criteria for design and preparation of technical documentation, be familiar and understanding all types of technical drawings, etc.

Technical documentation is a part of engineering drawing and this is a universal language of all engineers used in theirs design process. It is a formal and precise way of presenting specific information about the shape, the size, features, machining and precision of the elements. Actually, this is a graphical representation of objects and structures for quickly, fully and accurately visualizing objects and conducting analysis. The purpose of an engineering drawing is to convey all the required information that will allow a manufacturer to produce that component. All drawings are necessary to create in accordance with standardized conventions for layout, nomenclature, interpretation, appearance, size etc.

The curriculum was developed in accordance with a standard IMO - Model Course 7.04 „Officer in Charge of an Engineering Watch”. Content of the discipline corresponds to part of Competence 3.2. “MAINTENANCE AND REPAIR OF SHIPBOARD MACHINERY AND EQUIPMENT”.

CONTENTS:

Training Area	Lectures	Seminar classes	Course work
Graphics in design and communication. Projection systems – first angle orthographic projection and third angle orthographic projection. View types – main, additional, part and local views.	4	8	
Cutting plane and sectioning – successive section, revolved, broken-out, offset, aligned section and half section. Dimensioning –symbols and specific features. Developments.	5	8	15
Treads joins. Type of threads. External and internal threads. Standard threaded elements. Conventional representation of common feature.	2	6	
Surface finishing. Roughness and tolerance. Rules for reading assembly drawing and disconnect elements	4	8	
TOTAL: 60 h	**15**	**30**	**15**