ECTS credits: 6	Number of hours per week: 2+0+2
Forms of assessments: Exam	Types of assessment: Exam - written
	with oral discussion
Department, providing instruction on the discipline:	
Department: NAVAL ARCHITECTURE AND MARINE ENGINEERING	
FACULTY OF SHIPBUILDING	

Lecturers: Assoc. Prof. Dr. Nikola Petrov and Assoc. Prof. Dr. Haralan Haralanov

Department: NAVAL ARCHITECTURE AND MARINE ENGINEERING

Tel.. 052 383 219

e-mail: n_petrov@tu-varna.bg, h.haralanov@tu-varna.bg

Annotation:

The topic of this discipline is the study of the principle arrangement, constructions and features of different types of piping systems of ships and off-shore structures.

The teaching is intended to:

- Develop students' technical understanding of the piping systems
- Familiarize them with the methods of providing the operational features of marine structures through the piping systems
- Familiarize them with the design features of marine piping systems
- Create skills in determining the optimum parameters of operation of marine piping systems
- Introduce the students to the requirements of the international conventions and agreements, as well as national standards on the pollution prevention of seas and oceans.

Main issues of the syllabus content:

- Classification of the marine piping systems
- Structural elements of pipelines
- Structural elements of piping systems
- Hydraulic calculations for determining the parameters of piping systems
- Determining the parameters of marine HVAC systems
- Functional and structural features of different types of piping systems and specifics of their design.

Content presentation:

The content is presented by lectures, laboratory exercises and consultations about the course work.