

Code: 41,,Vibration of Ships and Marine Structures”

ECTScredits: 3

Forms of assessments:Exam

Number of hours per week: 1+0+1

Types of assessment: Exam - written  
with oral discussion

Department, providinginstruction on the discipline:

Department: *NAVAL ARCHITECTURE AND MARINE ENGINEERING*  
*FACULTY OF SHIPBUILDING*

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**Annotation:**The course teaches the basis of vibration theory and the basic methods of calculating parameters of vibrational processes in systems with one, „n“ and countless degrees of freedom. The course includes also the forces causing the vibrations of ships and marine structures, the norms and methods and approaches to reduce them.

**Main issues of the syllabus content:**

- Vibration of systems with one degree of freedom;
- Vibration of systems with "n" degrees of freedom;
- Vibration of beams;
- Vibration of plates;
- Forces that cause vibrations;
- Vibration norms;
- Some anti-vibration measures

**Content presentation:**

- Lectures
- Laboratory exercises