

Code:10 „Physics”

ECTScredits: 5	Number of hours per week: 2+ 0
Forms of assessments: Exam	+1
	Types of assessment: Exam - test/quiz
Department, providing instruction on the discipline: Department: <i>NAVIGATION, TRANSPORT MANAGEMENT AND WATERWAYS PRESERVATION</i> <i>FACULTY OF SHIPBUILDING</i>	

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Annotation: General Physics is a fundamental discipline, the basis of all applied technical science. Physical knowledge is of crucial importance for the future engineer – manager. The purpose of this course is not only to acquaint students with basic physical laws, but also to establish a common philosophic idea about the Modern concept of the Universe creation and recent tendencies of development of Physical Sciences.

Main issues of the syllabus content :

- CLASSICAL MECHANICS
- RELATIVISTIC MECHANICS
- CLASSICAL ELECTRODYNAMICS
- THERMODYNAMICS
- CLASSICAL AND QUANTUM OPTICS
- ATOMIC AND NUCLEAR PHYSICS

Content presentation:

During the lectures basic theoretical information is given in compliance with the course content, illustrated with examples from the real practice.

Forms of presenting the studies content:

The studies content is presented during the lectures and supported by laboratory exercises. During the course two tests are conducted for assessment of the students' knowledge during the semester.

During the laboratory work chemical and instrumental analyzes are carried out. The final exam is test.