Code : 10 Physics

ECTS Credits 5 Number of hours per week: 2+1+1

Forms of assessments: Types of assessment:

Exam Exam + test

Department : Section Physics, Department of Mathematics, Physics and Linguistic Education

Lecturer : Assoc. Prof. P.Popov

Annotation :

The course aims to introduce the students to fundamentals of physics – theoretically and experimentally, starting and basic knowledge on physics on level, corresponding to the needs of higher education in Bulgaria. The connection of the theory with practical implementations is pointed.

Main parts of content :

* Elements of classical mechanics
* Dynamics of a material point
* Work and Energy
* Elements of molecular physics and thermodynamics
* Irreversibility of processes
* Electricity and magnetic processes
* Vibration and waves
* Optics
* Structure of the atom
* Elements of nuclear physics

Structure of educational process: Lectures, seminar and laboratory exercises.