

Specification for the book of courses

Study program		Electrical Engineering and Computer Science		
Module		Common		
Type and level of studies		Undergraduate Academic Studies		
The name of the course		Physics		
Lecturer (for lectures)		Golubović M. Snežana, Ristić S. Goran		
Lecturer/associate (for exercises)		Aleksić M. Sanja, Golubović M. Snežana, Živanović N. Emilija, Davidović S. Vojkan		
Lecturer/associate (for OFE)		Marjanović B. Miloš, Đorđević D. Miloš, Stojković S. Aleksandra, Živanović N. Emilija		
Number of ECTS	6	Course status (obligatory/elective)	Obligatory	
Prerequisites				
Course objectives	Introducing students to the basic physical principles and laws to define the knowledge base for monitoring and mastering in the courses during the study.			
Course outcomes	Acquired necessary theoretical knowledge to successfully navigate in solving arithmetic problems and understanding and solving specific practical problems.			
Course outline				
Theoretical teaching	Theoretical lectures will be conducted within the following areas: Basic quantities and units. Kinematics, statics and dynamics of material point and rigid body. Elasticity. Fluid Mechanics. Heat and temperature. Fundamentals of Thermodynamics. Mechanical oscillations. Mechanical waves. Photometry. Geometric optics. Wave optics. Quantum optics. Fundamentals of atomic physics. Fundamentals of nuclear physics.			
Practical teaching (exercises, OFE, study and research)	Practical lectures will be conducted through exercises, computer and laboratory. This will enable students to successfully master the areas covered in this course			
Textbooks/references				
1	M. Pejovic, General Physics, Faculty of Electronics, University of Nis, 2006.(in Serbian)			
2	M. Pejovic, S. Golubovic, G. Ristic, A. Jaksic, General Physics-collection of problems, Faculty of Electronics, University of Nis, 2003.(in Serbian)			
3	M. Vucic, Basic Measurements in Physics, Scientific Book, Belgrade, 1990.(in Serbian).			
4				
5				
Number of classes of active education per week during semester/trimester/year				
Lectures	Exercises	OFE	Study and research work	Other classes
2	2	1	0	0
Teaching methods	Lectures, calculus and laboratory exercises, consultations			
Grade (maximum number of points 100)				
Pre-exam duties	Points	Final exam	Points	
Activity during lectures		Written exam	20	
Exercises		Oral exam	20	
Colloquia	60			
Projects				