1	Discipline	Physical basis of information processes
2	Year of Study,	3;
	Speciality	1-31 04 08 Computer physics
3	Term of Study	5
4	Number of	2
	Credits	
5	Tutors	Associate Professors, PhDs Pokotilo Yu.M., Stelmakh G.F.
6	Study	Asquaintance of students with the basic physical
	Objectives	phenomena and processes underlying the
		receipt, storage, processing and display of
		information and features of the formation and
		circulation of information flows in physics.
7	Prerequisites	Optics, Atomic Physics and Atomic Phenomena
8	Course	Fundamentals of the theory of information
	Content	processes. Physical principles of information
		recording and storing. Optoelectronics in
		information processes. Optical signal recording
		systems. Fundamentals of physics of
		condensed matter. Phenomena of energy and
		momentum transfer in crystals. Interaction of
		radiation with solid medium. The physical basis
		of micro- and nanoelectronics. Current
		diagnostic methods of substance
		characteristics. Physics of photodetectors and
		radiation detectors. Theory of beam energy
		transfer in the atmosphere. Liquid and gas
		in equilibrium state. Steady flow of
		liquid. Movement of viscous liquid.
9	Literature	1. L. Brillouin. Science and Information Theory.
	Recommended	, ,
		2. V.I. Dmitriev. Applied Information Theory,
		Moscow, Higher School, 1989.
		3. Kireev, P.S. Physics of semiconductors M
1.0		.: Higher Education School, 1975
10	Methods of	Lectures using comparative research and
1.1	Teaching	teaching methods
11	Language of	Russian
1.0	Teaching	
12	_	Colloquia, abstract works.
	Current	
1.0	Assessment	m ·
13	Form of	Test
	Current	
	Assessment	