

FACULTY:	Faculty of Technology and Education
FIELD OF STUDY:	Materials Science and Engineering
COURSE TITLE:	Physics II
LECTURER'S NAME:	dr Łukasz Szparaga
E-MAIL ADDRESS OF THE LECTURER:	lukasz.szparaga@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	5
ACADEMIC YEAR:	2015/2016
SEMESTER: (W – winter, S – summer)	S
HOURS IN SEMESTER:	30+30=60
LEVEL OF THE COURSE: (1 st cycle, 2 nd cycle, 3 rd cycle)	1 st cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lectures (30h), Classes (30h)
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam, class test
COURSE CONTENT:	The course covers the following topics: laws of thermodynamics, kinetic theory of gases, entropy, electric field theory, Gauss' law, electric circuits, magnetic field, magnetism of matter, Maxwell's equations, electromagnetic waves, geometrical optics, theory of relativity, Bohr's hydrogen atom, waves of matter, Schrodinger model, fundamentals of nuclear physics.
ADDITIONAL INFORMATION:	Required knowledge – basic mathematical calculus.
RECOMMENDED LITERATURE	<i>Fundamentals of Physics</i> by David Halliday, Robert Resnick, and Jearl Walker.