FACULTY:	Faculty of Technology and Education
FIELD OF STUDY:	Mechatronics
ERASMUS COORDINATOR OF THE	Igor Maciejewski
FACULTY:	
E-MAIL ADDRESS OF THE	igor.maciejewski@tu.koszalin.pl
COORDINATOR:	
COURSE TITLE:	Technical mechanics
LECTURER'S NAME:	Sebastian Głowiński, Ph.D
E-MAIL ADDRESS OF THE LECTURER:	sebastian.glowinski@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	4
ACADEMIC YEAR:	2014/2015
SEMESTER:	W/S
(W – winter, S – summer)	
HOURS IN SEMESTER:	30+15=45
LEVEL OF THE COURSE:	1 <sup>st</sup> cycle
(1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	
IEACHING METHOD:	Lectures (30h) , Classes (15h)
(lecture, laboratory, group tutorials, seminar, other-what type?)	
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD:	Oral exam
(written exam, oral exam, class test, written	
reports, project work, presentation,	
continuous assessment, other – what type?)	
COURSE CONTENT:	Statics:
	The course begins with a review of the statics of rigid
	bodies which includes the identification of statically
	indeterminate problems. Two and three dimensional statics
	problems will be looked into. Next, stresses and deflections
	in deformable components will be analyzed. In turn, the
	topics covered are: simple tension, compression, and
	shear; thin-walled pressure vessels; torsion; and bending of
	beams. For each topic, statically indeterminate problems
	are analysed and elementary considerations of strength are
	introduced.
	Kinematics and dynamics:
	This part of course concentrates on the motion of particles,
	systems of particles, and rigid bodies under the action of
	forces and moments. Topics include the kinematics of
	motion in rectangular, polar, and intrinsic coordinates;
	relative motion analysis with multiple reference trames;
	and planar kinetics through the second law, work-energy
	frequency domain colutions to first and second order
	aquations of motion are discussed
ADDITIONAL INFORMATION:	-