

FACULTY:	Faculty of Technology and Education
FIELD OF STUDY:	Mechatronics
ERASMUS COORDINATOR OF THE FACULTY:	Igor Maciejewski
E-MAIL ADDRESS OF THE COORDINATOR:	igor.maciejewski@tu.koszalin.pl
COURSE TITLE:	Revision and mechatronic systems design in automotive vehicles
LECTURER'S NAME:	Sebastian Pecolt, Ph.D.
E-MAIL ADDRESS OF THE LECTURER:	sebastian.pecolt@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	5
ACADEMIC YEAR:	2014/2015
SEMESTER: (W – winter, S – summer)	W/S
HOURS IN SEMESTER:	15+30=45
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 (15h), Project classes (30h)
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	project work and written reports
COURSE CONTENT:	Modeling and designing selected models of the mechatronic systems in vehicles. Development of the computer models such as suspension systems (active, semi-active), wiper mechanisms, active safety systems, control process i.e. temperature control (Climatronic) in vehicles. Computer modeling by using Matlab environment and Simulink/Simscape toolbox. Verification of the created models.
ADDITIONAL INFORMATION:	Classes require from the student basic knowledge of automotive systems.