

FACULTY:	<b>Faculty of Technology and Education</b>
FIELD OF STUDY:	Materials Science and Engineering
COURSE TITLE:	<b>Linear algebra</b>
LECTURER'S NAME:	dr Piotr Koziol, assistant professor
E-MAIL ADDRESS OF THE LECTURER:	piotr.koziol@wbiis.tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	4
ACADEMIC YEAR:	2015/2016
SEMESTER: (W – winter, S – summer)	W
HOURS IN SEMESTER:	30+15=45
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lectures (30h), Classes (15h)
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:	Complex numbers, vector linear space, linear transformations, operations on matrices and properties of matrix spaces, systems of linear equations, vectors and operations on vectors, planes and straight lines in 3d space.
ADDITIONAL INFORMATION:	Required knowledge – fundamentals of real numbers theory and basic properties of transformations in real domain.
RECOMMENDED LITERATURE	<b>Schaum's Outline Series:</b> <ol style="list-style-type: none"> <li>1. Elementary Algebra <i>by</i> Barnett Rich and Philip Schmidt</li> <li>2. Intermediate Algebra <i>by</i> Ray Steege and Kerry Bailey</li> <li>3. Linear Algebra <i>by</i> Seymour Lipschutz and Marc Lipson</li> <li>4. Complex Variables <i>by</i> Murray Spiegel, Seymour Lipschutz, John Schiller and Dennis Spellman</li> <li>5. Mathematical Handbook of Formulas and Tables <i>by</i> Seymour Lipschutz, Murray Spiegel and John Liu</li> </ol>