FACULTY:	**Faculty of Technology and Education**
FIELD OF STUDY:	Materials Science and Engineering
COURSE TITLE:	**Computer science and programming**
LECTURER'S NAME:	Lector: Andrzej Błażejewski, D.Eng. Class trainer: Kazimierz Kamiński, M.Eng.
E-MAIL ADDRESS OF THE COURSE COORDINATOR:	andrzej.blazejewski@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^{st} cycle, 2^{nd} cycle, 3^{rd} cycle)	1^{st} 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?)	Oral exam, class test, project work.
COURSE CONTENT:	This subject of the course is aimed at students with little or no programming experience. It aims to provide students with an understanding of the role computation can play in solving problems. It also aims to help students, regardless of their major, to feel justifiably confident of their ability to write small programs that allow them to accomplish useful goals. The class will use the C++ programming language. Course objectives: By the end of this course, students will be able to understand and use the basic programming constructs of C++. Manipulate various C++ data types, such as arrays, strings, and pointers. Isolate and fix common errors in C++ programs. Use memory appropriately, including proper allocation/de-allocation procedures. Apply object-oriented approaches to software problems in C++. Write small-scale C++ programs using the above skills.
ADDITIONAL INFORMATION:	Prerequisites: Basic concepts, nomenclature, and historical perspective of computers and computing.
RECOMMENDED LITERATURE	B. Stroustrup "The C++ Programming Language -4th Edition". Addison-Wesley ISBN 978-0321563842. May 2013