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| FACULTY: | **Faculty of Mechanical and Energy Engineering** |
| FIELD OF STUDY: | **Mechatronics** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski, DSc, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Computer and programming** |
| LECTURER’S NAME: | lectures: Andrzej Błażejewski, Eng. PhD  classes: Kazimierz Kamiński, Eng. PhD |
| E-MAIL ADDRESS OF THE LECTURER: | [andrzej.blazejewski@tu.koszalin.pl](mailto:andrzej.blazejewski@tu.koszalin.pl)  kazimierz.kaminski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 4 |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 30 +30=60 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lectures (30h), Classes (30h) |
| LANGUAGE OF INSTRUCTION: | * **English full time scheme for classes with 5 and more International Erasmus+ students enrolled/accepted;** * **English 50% individually with the teacher + Polish 50% with Polish students or individual project work- scheme for classes with less than 5 International Erasmus+ students enrolled/ accepted;** |
| 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: | 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. During classes the C++ programming language will be used.  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++ datatypes, such as arrays, strings, and pointers; isolate and fix common errors in C++ programs; use memory appropriately, including proper allocation/deallocation procedures; apply object-oriented approaches to software problems in C++; write small-scale C++ programs using the above skills. |
| ADDITIONAL INFORMATION: | Code 0911>1000-KiP  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 |