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| FACULTY: | **Faculty of Mechanical Engineering** |
| FIELD OF STUDY: | **Mechatronics** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Object oriented programming of the devices** |
| LECTURER’S NAME: | Krzysztof Dorywalski, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | krzysztof.dorywalski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 3 |
| ACADEMIC YEAR: | 2020/2021 |
| SEMESTER:  (W – winter, S – summer) | Winter |
| HOURS IN SEMESTER: | 30+15=45 |
| 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 (15h) |
| LANGUAGE OF INSTRUCTION: | Polish/English |
| ASSESSMENT METOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | written exam, project work |
| COURSE CONTENT: | The course aims to provide basic competences in the object oriented programming. Students will be introduced to the core concepts of the object oriented programming, namely: object, class, inheritance, polymorphism, encapsulation etc. During the course, students will develop the ability to create computer application with graphical user interface in Java, as well as programming of the embedded systems and mobile devices using Java/Android and Python programming languages. |
| ADDITIONAL INFORMATION: | Prerequisites:  - basic knowledge in the computer programming  - basic knowledge in electronics |
| RECOMMENDED LITERATURE | - B. Eckel, *Thinking in Java*, Prentice Hall2006  - J . Gosling, B. Joy, G. Steele, G. Bracha,*Java Language Specification*, Addison-Wesley Professional 2005  -online tutorials |