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| FACULTY: | **Faculty of Mechanical Engineering** |
| FIELD OF STUDY: | **Biomedical Engineering** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Biochemistry** |
| LECTURER’S NAME: | Ewa Dobruchowska, Ph.D Eng. |
| E-MAIL ADDRESS OF THE LECTURER: | ewa.dobruchowska@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 2 |
| ACADEMIC YEAR: | 2021/2022 |
| SEMESTER:  (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 30 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lectures (15h), 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/class test |
| COURSE CONTENT: | Acquainting students with the basic classes of biochemical compounds (proteins, lipids, carbohydrates, high-energy compounds, nucleic acids), their structure, metabolic changes and functions they perform in cells and tissues; providing knowledge about the physiological aspects of biochemical processes occurring in the human body in health and disease, with particular emphasis on metabolic diseases; familiarizing students with the processes of genetic information transfer and with selected elements of genetic and tissue engineering; overview of the basic analytical methods used in biochemical determinations. |
| ADDITIONAL INFORMATION: | Students should have basic knowledge from organic chemistry. |