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| FACULTY: | **Faculty of Mechanical and Energy Engineering**  Department of Biomedical Engineering |
| FIELD OF STUDY: | **Biomedical Engineering** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski, DSc, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Propaedeutics of medical sciences** |
| LECTURER’S NAME: | Katarzyna Mitura, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | katarzyna.mitura@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 2 |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | W |
| 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 (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?) | Class test |
| COURSE CONTENT: | 1.Propedeutics - explanation of the issue based on medical examples.  2.Health care system in Poland and Europe - reference, regionalization, reimbursement.  3.Epidemiology as a science. Epidemiology of preventive vaccinations in Poland.  4. Contact allergy to metals. Patch tests. Nickel test.  5.Elements of immunology - cellular and humoral immunity in the aspect of vaccinations and cancer.  6. Prevention of respiratory diseases - cancer and COPD prevention and smoking cessation.  7 Depression as a civilization disease - prevention.  8. Imaging tests - CT, HRCT, SPIRAL TOMOGRAPHY, NMR, PET, SCINTIGRAPHY, CLASSICAL X-RAY.  9. In vitro, in vivo, in ovo research and clinical studies - ethical, medical and legal aspects.  10. Active and passive prevention - protective vaccinations and sera in pediatrics.  11. Blood pressure measurements using the Korotkov method. Heart rate measurements.  12. Electrocardiography.  13.Cancer epidemiology. Cancer marker tests. Genetic tests.  14. Propaedeutics in dentistry: conservative dentistry, prosthetics, orthodontics, implantology. Biomaterials in dentistry (filling canals and dental cavities). Modern equipment in dentistry: intraoral scanners, 3D printers. |
| ADDITIONAL INFORMATION: | Basic chemistry, physics, mathematics courses completed. Knowledge of basic issues in physics, chemistry and mathematics describing the state of matter. Basic information on materials science.  Code: 0911>1000-PNM |