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| FACULTY: | Department of Mechanical Engineering |
| FIELD OF STUDY: | Food Technology and Human Nutrition |
| ERASMUS COORDINATOR OF THE FACULTY: | Agnieszka Szparaga, PhD, Assoc. Prof. |
| E-MAIL ADDRESS OF THE COORDINATOR: | Agnieszka.szparaga@tu.koszalin.pl |
| COURSE TITLE: | **The Basics of Refrigeration** |
| LECTURER’S NAME: | Marcin Kruzel, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | marcin.kruzel@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 4 |
| COURSE CODE (USOS): | 0811>2000-PCh |
| ACADEMIC YEAR: | 2022/2023 |
| SEMESTER:  (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 30 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lecture |
| LANGUAGE OF INSTRUCTION: | English |
| ASSESSMENT METHOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | written exam |
| COURSE CONTENT: | 1. Basics of thermodynamics 2. First thermodynamics principle 3. Second thermodynamics principle 4. Refrigerants 5. Single-stage compressor refrigeration cycles 6. Comparative circuits 7. Two-stage compressor cooling cycles 8. Cascade refrigeration equipment 9. The use of refrigeration in the food industry 10. Operation of refrigeration and air conditioning equipment 11. Refrigerated transport of food products |
| ADDITIONAL INFORMATION: | The course provides theoretical knowledge of the basics of refrigeration |

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