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| FACULTY: | Faculty of Architecture and Design |
| FIELD OF STUDY: | INTERIOR ARCHITECTURE |
| ERASMUS COORDINATOR OF THE FACULTY: | Sara Olszewska |
| E-MAIL ADDRESS OF THE COORDINATOR: | sara.olszewska@tu.koszalin.pl |
| COURSE TITLE: | BASICS OF FURNITURE DESIGN |
| LECTURER’S NAME: | Bogusław Niewiadomski |
| E-MAIL ADDRESS OF THE LECTURER: | boguslaw.niewiadomski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 2 |
| COURSE CODE (USOS): | 1211>0100-PPM-lab |
| ACADEMIC YEAR: | **2025/2026** |
| SEMESTER:  (W – winter, S – summer) | S |
| 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?) | laboratory |
| 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 METHOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | The student passes semester 02 based on the development of cut-out elements of a chair in a scale of 1:2. The final model of the chair should be distinguished by its stable structure, proportions and ergonomic layout. Full credit for the course includes the completed model in a scale of 1:2, technical drawings in projections with basic dimensions and photographs of the model. |
| COURSE CONTENT: | Laboratory activities from the basics of design throughout the course are analyzed in terms of activities related to matching modeling methods with specific machining tools in the digital technology of the CNC device. The laboratory examines selected technical and technological analyses and digitally saves DXF DWG files. The student recognizes the structural relationships of the form of a selected furniture model depending on the operational methods performed in the selected material.  Topics throughout the course concern persuasive operational processes in wood. Basic knowledge of developing technical drawings generated with DWG or DXF files is used for these tasks  1. Technical drawing of the model in the process of scaling from a scale of 1:10 to a scale of 1:2  2. Selecting elements in the drawing for potential cut-outs for CNC processing.  3. Closing the envelope lines of the cutting dies and matching the thickness of the plywood to the cutting mill.  4. Initial process of cutting out model elements under the substantive supervision of the laboratory technician.  5. Evaluation of cut elements and sanding  6. Gluing elements and evaluating the structural stability of the model.  7. Final photographs  8. Final verification of technical drawings and scaling of the study for the prototype size of the future furniture in a 1:1 scale |
| ADDITIONAL INFORMATION: | 1st grade course (2nd semester) |

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