

SYLLABUS

Name of the course (as specified in the approved curriculum) Computer aided design of wooden constructions			Number of ECTS Credits 4
Name of the course in Polish Komputerowe wspomaganie projektowania konstrukcji drewnianych			
Unit providing the course (Department/Institute) Department of furniture design			
Course co-ordinator Zbigniew Potok			
Field of study Computer aided design and manufacturing	Level 1 degree studies	Profile general academic	Semester winter
Scope		Thesis specialisation	
TYPE OF CLASSES AND COURSE LOAD (lectures and self-learning of the student)			
Mode of studies: full-time		Mode of studies: part-time	
- practical classes	30	- practical classes	
- Self- learning	70		
Total number of hours:		100	Total number of hours:
OBJECTIVE OF THE COURSE			
Familiarize students with the specialized CAD software used in engineering design of wooden constructions			
TEACHING METHODS			
Practical classes in the computer lab			
Course learning outcomes			The reference to field of study outcomes
Knowledge	O1 Demonstrates the knowledge of advanced methods and tools used in solving engineering tasks in the field of woodworking related to wooden constructions		
Skills	O2 Has the ability to communicate precisely with various subjects in verbal, written and graphic form; knows how to implement his design concepts in the field of wooden structures		
Social skills	O3 Is able to interact and work in a group taking different roles in it		
Methods of evaluation of learning outcomes Individual project			Symbols of course learning outcomes
TEACHING CONTENTS			
The structure and capabilities of the selected CAD system intended for recording wooden structures, methods of recording the cross-section of storeys, methods of recording the structure of skeletal walls, methods of recording the cross-section of roofs, methods of recording roof truss structures, methods of recording non-standard wooden structures, methods of preparing drawing documentation, methods of saving material lists. Development of the storey cross-section, record of the skeleton wall structure, record of the roof truss structure, preparation of flat drawings, preparation of the list of materials, division of competences in the group and recording a simple frame structure and checking its correctness.			
The course completion methods and criteria Individual project			Percentage of a final grade 100%
LITERATURE REFERENCE			
<ol style="list-style-type: none"> 1. Gawroński T., Leń P.: Komputerowy zapis szkieletowych konstrukcji drewnianych. Wydawnictwo Uniwersytetu Przyrodniczego w Poznaniu, 2009 2. Sherwood G. E.: Budowa szkieletowego domu drewnianego. Wydawnictwo Murator, 2003 3. Markiewicz P.: Projekt jednego domu w pięciu technologiach. Wydawnictwo Archi-Plus, 2002 			

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