

THE CARD OF DESCRIPTION THE EDUCATION MODULE			
Name of course/module INVENTORY TRAINING		Code AU_K_2.1_014	
Main field of study ARCHITECTURE AND URBAN PLANNING		Education profile (general academic, practical) general academic	Year / Semester I/1
Specialization -		Language of course: Polish	Course (core, elective) core
Hours Lectures: - Classes: - Laboratory classes: - Projects / seminars: 15			Number of points 1
Level of qualification: II	Form of studies (full-time studies/part-time studies) Full-time studies	Education area(s) Technical Sciences	ECTS division (number and %) 1 100%
Course status in the study program (basic, directional, other) basic		(general academic, from other field of study) -	
Responsible for course: dr hab. inż. arch. Teresa Bardzińska Bonenberg e-mail: teresa.bardzinska-bonenberg@put.poznan.pl Faculty of Architecture ul. Nieszawska 13C, 60-965 Poznań tel.: 061 665 32 55		Lecturer: mgr inż. arch. Agnieszka Rumieź e-mail: agnieszka.rumiez@put.poznan.pl Faculty of Architecture ul. Nieszawska 13C, 60-965 Poznań tel.: 061 665 33 21	
Prerequisites of knowledge, skills, social competences:			
1	Knowledge:	<ul style="list-style-type: none"> ▪ student has explicit, theoretically based knowledge including the key issues of history of general and Polish architecture, ▪ student has explicit, theoretically based knowledge including the key issues of architecture, constructions, installations, building materials, ▪ student knows basic methods, techniques and materials used in architect work, 	
2	Skills:	<ul style="list-style-type: none"> ▪ student can communicate in Polish and English using different techniques, also using manual architectural drawing in the professional environment and in other environments, ▪ student can plan and carry out experiments, including the computer measurements and simulations, can interpret the results and draw conclusions, ▪ can formulate and test hypothesis related to engineering problems and simple research problems, 	
3	Social competences:	<ul style="list-style-type: none"> ▪ student understands the need for lifelong learning; can inspire and organize process of learning other people, ▪ can work and cooperate in a team, assuming a number of different roles therein. 	

Objective of the course:

1. learning the contemporary inventory methods of architectural facilities,
2. obtain skills in preparation of inventory documentation,
3. familiarize with old methods of buildings erection and their equipment: heating systems, installations, constructions of staircases, methods of fixing the doors and windows, constructions of building carpentry,
4. teaching students the cooperation and shared responsibility for executing work and its results,
5. enables to make hypotheses and developing the inventiveness in analyzing functions, constructions and details of complicated old houses structures and other facilities and possibilities of checking them using different ways.

Learning outcomes**Knowledge:**

number (symbol)	Having completed the course, student can:	Reference to the outcomes of the learning process in the area of technical sciences
W01	Student has explicit, theoretically based knowledge including the key issues of architecture history	AU2_W01
W02	Student has explicit, theoretically based knowledge including the key issues of architecture, constructions, installations, building materials	AU2_W01
W03	Student has knowledge of development trends and most important achievements in architectural designing and urban planning	AU2_W02
W04	Student has basic knowledge of useful lives of structural facility, its elements and equipment	AU2_W07
W05	Student knows basic methods, techniques, tools and materials applied in the architect work	AU2_W11

Skills:

number (symbol)	Having completed the course, student can:	Reference to the outcomes of the learning process in the area of technical sciences
U01	Student can acquire information from field specific literature, data bases and other properly selected sources in Polish and English, can integrate the acquired information, interpret the said information, as well as draw conclusions and come up with opinions supported with satisfactory reasons	AU2_U01
U02	Student can communicate in Polish and English using different techniques, also using manual architectural drawing in the professional environment and in other environments	AU2_U06
U03	Student can plan and carry out experiments, including the computer measurements and simulations, can interpret the results and draw conclusions	AU2_U06 AU2_U08

U04	Student can put together the knowledge in other scientific fields and disciplines, related to mathematics, geometry, also construction, including timber construction and apply the system approach, accounting for non-technical aspects	AU2_U11 AU2_U13
U05	Student can come up with improvements regarding the existing engineering solutions	AU2_U01 AU2_U12

Social competences:		
number (symbol)	Having completed the course, student can:	Reference to the outcomes of the learning process in the area of technical sciences
K01	Student understands the need for lifelong learning; can inspire and organize process of learning other people	AU2_K03
K02	Student is aware of the importance of non-technical aspects and effects of design activities, in this impact upon the cultural environment and liability for environment affecting decisions	AU2_K05
K03	Student can work and cooperate in a team, assuming a number of different roles therein	AU2_K01
K04	Student is aware of social role of architectural studies graduate, especially understands the needs of formulation and communication to the public, especially by mass media, information and opinions on architectural achievements	AU2_K06

Methods of check the learning outcomes
<p>Credit conditions and method of work assessment.</p> <p>An important criterion of project assessment is way of realization of following issues:</p> <ol style="list-style-type: none"> selection of building quantity survey method – appropriate for building type and its elements, quality, precision and scope of collected surveying information and photographic documentation, effective form of data recording, that allows the accurate reproduction during preparation of integrated inventory documentation, effective location of problems, which require the reanalysis after preparation of preliminary inventory documentation, solution to the problems in the application of non-stereotypical technical solutions or research solutions, creative and reliable approach to information coordination of building into uniform documentation, the ability to work in group, timely completion of task.
<p>Forming evaluation:</p> <ul style="list-style-type: none"> partial reviews checking the progress of student work – individual assessments resulting from above criteria 3 main reviews during semester <p>Grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0</p>
<p>Summary score:</p> <ul style="list-style-type: none"> grade from written exam is an average of partial grades (knowledge and drawing skills)

Final grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0

Course contents

Preparation of full inventory documentation of building or buildings complex, including: views, sections, facades and architectural details.

Preliminary part:

At this stage work should be carried out in the form of workshops for the whole inventory group.

Initial tasks are defined in the following way:

- Selection of appropriate method of building quantity survey.
- Appropriate division of tasks in the group, enabling the effective collecting information of existing building.
- Selection of correct reference points, in relation to which will be collected dimensions. These points enable later coordination of documentation.

Specific part:

At this stage work should be carried out in small surveying groups (2-3 people), which will realize the selected aspect of building quantity survey (views, facades, sections or details).

Tasks includes the following issues:

- Appropriate selection of information collection methods of surveying element.
- Preparation of working documentation in a systematic manner, which will enable in a later stage the correct reading of collected information.
- Keeping the well-ordered photographic documentation.
- Successive data entry on inventory drawing.
- Checking the dimensions between small surveying groups for minimize the measurement errors.

Preparation of full integrated inventory documentation, having graphic form common for the whole workshop group. Documentation includes not only final drawing, but also working drawings showing the ways of spatial analyses and collected photographic documentation.

Basic bibliography:

1. Polska Norma PN-70/B-02365 „Powierzchnia budynków. Podział, określanie i zasady obmiaru”
2. PN- ISO 9836:1997 „Właściwości użytkowe w budownictwie. Określanie i obliczanie wskaźników powierzchniowych i kubaturowych.”

Complementary bibliography:

Inventories from previous years.

The workload of student

Form of activity	Hours	ECTS
Total workload	33	1
Activities that require individual contact with the teacher	3	0,2
Activities of practical	30	1

Balance the workload of the average student

Form of activity	Number of hours
participation in lectures	0 h
participation in classes/ laboratory classes (projects)	10 h
preparation for classes/ laboratory classes	15 x 1 h = 15 h

preparation to colloquium/final review	5 h
participation in consultation related to realization of learning process	3 x 1 h = 3 h
preparation to the exam	0 h = 0 h
attendance at exam	0 h

Total workload of student: **1,2 ECTS credit** **33 h**

As part of this specified student workload:

- activities that require direct participation of teachers:

10 h + 3 h = 13 h