

SYLLABUS

REGARDING THE QUALIFICATION CYCLE FROM 2022/2023 TO 2026/2027

1. BASIC COURSE/MODULE INFORMATION

Course/Module title	COMPUTER TECHNOQUES IN DESIGN
Course/Module code *	
Faculty (name of the unit offering the field of study)	College of Natural Sciences
Name of the unit running the course	Institute of Agricultural Sciences, Environment Management and Protection
Field of study	Landscape Architecture
Qualification level	First-cycle studies
Profile	general academic
Study mode	full time
Year and semester of studies	I year, II semester
Course type	basic
Language of instruction	English
Coordinator	PhD Eng. Marta Gargała-Polar, landscape architect
Course instructor	PhD Eng. Marta Gargała-Polar, landscape architect

* - as agreed at the faculty

1.1. Learning format – number of hours and ECTS credits

Semester (no.)	Lectures	Classes	Colloquia	Lab classes	Seminars	Practical classes	Internships	others	ECTS credits
2				30					5

1.2. Course delivery methods

- conducted in a traditional way
- involving distance education methods and techniques

1.3. Course/Module assessment (exam, pass with a grade, pass without a grade)

2. PREREQUISITES

Subjects: mathematics, information technology, drawing and modeling

3. OBJECTIVES, LEARNING OUTCOMES, COURSE CONTENT, AND INSTRUCTIONAL METHODS

3.1. Course/Module objectives

O1	Acquiring knowledge in the field of computer design in landscape architecture.
O2	Preparing students to use modern computer design techniques (AutoCAD, Vectorworks, Canva, Power Point, Inkscape, Gimp, Google SketchUp).

3.2 COURSE/MODULE LEARNING OUTCOMES (TO BE COMPLETED BY THE COORDINATOR)

Learning Outcome	The description of the learning outcome defined for the course/module	Relation to the degree programme outcomes
LO_01	Knows the basic scope, modern technologies in computer design of landscape architecture objects	K_Wo1
LO_02	Characterizes basic computer techniques and tools in the design of landscape architecture objects	K_Wo6
LO_03	Can design various architectural objects using computer techniques	K_Uo2
LO_04	Can choose graphic computer programs for preparing and presenting projects	K_Uo3
LO_05	Is aware of the need for further education and self-improvement in the field of landscape architect's profession	K_K12

3.3 Course content (to be completed by the coordinator)

A. Lectures

Content outline
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B. Classes, tutorials/seminars, colloquia, laboratories, practical classes

Content outline
2 semester
Familiarizing students with the content of the classes, requirements and the way of passing the subject.
Use of custom Microsoft Word properties to create design boards. Aspects of

typography.
The use of non-standard Power Point properties to create design boards. Issues of the color palette in RBG.
Basics of AutoCAD, Vectorworks- design tasks.

3.4 Methods of Instruction

e.g.

Lecture: a problem-solving lecture/a lecture supported by a multimedia presentation/ distance learning

Classes: text analysis and discussion/project work (research project, implementation project, practical project)/ group work (problem solving, case study, discussion)/didactic games/ distance learning

Laboratory classes: designing and conducting experiments

Classes: work in raster and vector graphic programs

Assessment techniques and criteria

4.1 Methods of evaluating learning outcomes

Learning outcome	Methods of assessment of learning outcomes (e.g. test, oral exam, written exam, project, report, observation during classes)	Learning format (lectures, classes, ...)
LO-01	<i>PROJECT</i>	classes
LO-02	<i>PROJECT</i>	classes
LO-03	<i>PROJECT</i>	classes
LO-04	<i>PROJECT</i>	classes
LO-05	<i>PROJECT</i>	classes

4.2 Course assessment criteria

THE CONDITION FOR PASSING THE SUBJECT IS TO ACHIEVE ALL THE ASSUMED LEARNING OUTCOMES. THE POSITIVE EVALUATION OF THE SUBJECT IS DETERMINED BY THE NUMBER OF POINTS OBTAINED FROM THE PRESENTATION (> 50% OF THE MAXIMUM NUMBER OF POINTS): DST 51-60%, DST PLUS 61-70%, DB 71-80%, DB PLUS 81-90%, VERY GOOD 91-100 %

5. Total student workload needed to achieve the intended learning outcomes – number of hours and ECTS credits

Activity	Number of hours
Scheduled course contact hours	30
Other contact hours involving the teacher	4

(consultation hours, examinations)	
Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	91
Total number of hours	125
Total number of ECTS credits	5

* One ECTS point corresponds to 25-30 hours of total student workload

6. Internships related to the course/module

Number of hours	
Internship regulations and procedures	

7. Instructional materials

<p>Compulsory literature:</p> <p>Pikoń A. AutoCad 2011. Pierwsze kroki. Wyd. Helion. Warszawa.</p> <p>Sikorski P., Żołnierczuk M. 2015. AutoCAD w architekturze krajobrazu. Wyd. SGGW. Warszawa.</p> <p>Dębicka A. 2015. Vectorworks Landmark. Podstawy. Wyd. Design Express Poland.</p>
<p>Complementary literature:</p> <p>Pikoń A. AutoCAD. 2007. Wyd. Helion. Warszawa.</p> <p>Montusiewicz J., Lis R., Dziedzic K. 2012. Bitmapowa grafika komputerowa: wprowadzenie do programu GIMP 2.8. Wyd. Politechniki Lubelskiej. Lublin.</p> <p>Szczerbanowski R. 2013. Obiekty trójwymiarowe. AutoCad 2013. PL. Wyd. Politechniki Łódzkiej. Łódź.</p> <p>Tomaszewska A. 2008. Inkscape. Ćwiczenia praktyczne. Wyd. Helion. Warszawa.</p> <p>Tomaszewska-Adamarek A. 2010. Google SketchUp. Ćwiczenia praktyczne. Wyd. Helion. Warszawa.</p>

Approved by the Head of the Department or an authorised person