

**SYLLABUS FOR 2023/2024 ENROLMENT
FORM OF STUDY: FULL-TIME PROGRAMME**

GENERAL INFORMATION

1. Course Computer graphics

2. Field of study Computer Science

3. Level of acquired education first-cycle programme

4. Number of ECTS credits 5

5. Number of hours per semester

semester	lecture	classes	laboratory/foreign language course	project/practical classes	self-study	internship
II	15		30			

6. Language of instruction: English

7. Lecturer dr inż. Jakub Smółka, mgr inż. Zofia Lubańska

DETAILED INFORMATION

8. Preliminary requirements

1. Basic knowledge of operating computers

2. Ability to use the Internet

9. Course objectives

C1 To introduce students to the basic concepts of the CorelDraw Graphics Suite 2021 program.

C2 To introduce students to the issues of raster and vector drawing.

C3 To explain how to draw rectangles and ellipses, complex shapes, fine shapes in CorelDraw Graphics Suite 2021

C4 To define the basic issues concerning the transformation of an object into curves

C5 To introduce students to the way of filling objects, working with text in CorelDraw Graphics Suite 2021

C6 To explain how to overlay objects and layers, special effects in text in CorelDraw Graphics Suite 2021

10. Field-specific learning outcomes in terms of knowledge, skills and social competences

A student who completed the course:	reference to field-specific learning outcomes
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KNOWLEDGE

EU01 Knows and understands concepts and methods related to multimedia techniques, computer graphics, image processing and compression techniques, user interfaces to an advanced degree and the practical applications of this knowledge in professional activities	K_W14
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SKILLS

EU02 Is able to design and program in familiar graphic environments using appropriate methods and tools	K_U15
EU03 Is able to use knowledge to assess the usefulness of methods and tools for solving engineering tasks typical for computer science and apply the principles of safety and hygiene at work	K_U17
EU04 Is able to solve complex and non-typical tasks/problems arising in the work environment, critically evaluate the effectiveness of their own actions, present and evaluate opinions	K_U21

SOCIAL COMPETENCES

EU05 Is ready to fulfil professional roles responsibly, including observing the rules of professional ethics and requiring others to do	K_K04
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so, as well as taking care of the achievements and traditions of the profession	
11. Course content	
Course delivery method – lectures/classes/laboratories/practical classes	
Lecture:	
<ol style="list-style-type: none"> 1. Basic concepts 2. Geometric transformations on a plane 3. Basic algorithms for drawing graphic primitives 4. Relationships between pixels 5. Context-free operations 6. Basic digital filters 	
Laboratory:	
<ol style="list-style-type: none"> 1. Drawing simple objects, scaling, rotating 2. Working with colours, different types of fillings 3. Grouping objects, inserting text 4. Bezier curves, drawing curved lines, changing curve shapes 5. Effects, applying effects to text, 6. Working with layers 7. Final project - pass/fail 	
12. Teaching tools and methods	
1. Lectures in the form of presentations	
2. Laboratory instructions	
3 Program: CorelDraw Graphics Suite 2021	
4. Computer	
13. Assessment method (component, final)	
1. Assessment of current preparation for laboratory classes and activity during classes - continuous assessment	
2. Component evaluation of laboratory classes	
3. Final credit - project	
4. Written examination on the lecture material	
14. Student workload	
Form of activity	Number of hours
1. Classes with direct participation of the teacher and office hours	55
2. Student workload	75
sum	125
number of ECTS credits	5
15. Reference books	
Primary:	
1) R. Zimek, ABC CorelDraw 2018, Wyd. Helion, 2018	
2) V. Glitschka, Grafika wektorowa. Szkolenie podstawowe. Wydanie II, Wyd. Helion, 2016	
3) R. Zimek, CorelDraw 2018 PL ćwiczenia praktyczne, Wyd. Helion, 2019	
Secondary:	
1) M. Gradias, CorelDRAW Graphics Suite 2021 - 2019 - Einstieg und Praxis (niemiecki), Wyd. Markt+Technik Verlag, 2021	
16. Assessment form - details	
Conditions for obtaining course credit: the course ends with an exam.	
Laboratory - The assessment of the degree of learning outcomes achieved by the student takes place according to the following criteria:	

- 5.0 - learning effect was achieved without reservations
- 4.5 - learning effect was achieved with single insufficiencies / errors
- 4.0 - learning effect was achieved with few insufficiencies /errors
- 3.5 - learning effect was achieved with many insufficiencies /errors
- 3.0 - learning effect was achieved with numerous and significant insufficiencies /errors (minimum required level of achievement of the effect)
- 2.0 - learning effect not achieved

Lecture - examination in the form of a test with closed questions (21 questions). Time of examination 1 lesson hour. Marks depending on the number of correct answers:

Scoring (for each positive indication 1 point)

- 0 - 10 points - 2.0 (fail)
- 11-12 points - 3.0 (sufficient)
- 13-14 points - 3.5 (satisfactory)
- 15-17 points - 4.0 (good)
- 18-19 points - 4.5 (very good)
- 20-21 points - 5.0 (excellent)

17. Other details concerning the course

1. Direct information about the issues of classes and a program content is provided by the teacher during classes and during office hours.
2. Classes will be held at AB in Biała Podlaska
3. Classes will be held in accordance with the current schedule
4. Office hours will be held in accordance with the applicable schedule