#### card of course

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| Subject name | Computer graphics part 2 |

1. The placement of the subject in the study system

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| 1.1. Field of study | Computer science |
| 1.2. Form and path of study | Full-time/Part-time |
| 1.3. Level of education | First-cycle studies |
| 1.4. Study profile | Practical |

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| 1. 5. Specialty | Computer graphics and game design |
| 1.6. Subject Coordinator | Mgr inż. Michał Brogowski |

2. General characteristics of the subject

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| 2.1. Belonging to a subject group | Optional/practical |
| 2.2. Number of ECTS | 5 |
| 2.3. Language of lectures | English |
| 2.4. Semesters in which the subject is taught | IV |
| 2.5.Criteria for selecting course participants | For specializations: Computer graphics and game design |

1. Learning outcomes and course delivery
   1. Subject Objectives

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| No. | Subject Objectives |
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| C1 | Learning how to prepare graphics for publication with Adobe InDesign |
| C2 | Learning how to efficiently use multiple Adobe family programs and integrate the graphics you create. |
| C3 | Learning the selected AI tool and learning how to use the generated graphics creatively and effectively. |

* 1. Subject-specific learning outcomes, divided into knowledge , skills and competences , with reference to the directional learning outcomes

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| No. | Description of subject  learning outcomes | Reference to  directional effects  learning (symbols) | Method of implementation (mark "X") | | | |
| ST | | NST | |
| Classes at the University | Activities on  the platform | Classes at the University | Activities on  the platform |
| After passing the course, the student knows and understands **the knowledge** | | | | | | |
| W1 | Knows what the basic rules are for preparing graphics for publication | INF\_W09 |  | X |  | X |
| W2 | Knows the most important rules related to typography |  | X |  | X |
| W3 | Knows the rules for preparing different types of projects, e.g. business card, catalog, label |  | X |  | X |
| W4 | Knows the principle of operation of Smart Objects and is able to use them effectively |  | X |  | X |
| W5 | Knows the principles of logo design |  | X |  | X |
| After passing the course, the student is **able** to: | | | | | | |
| U1 | Able to use Adobe InDesign tools fluently | INF\_U02  INF\_U21 | X |  | X |  |
| U2 | Is able to prepare a logotype design based on guidelines | X |  | X |  |
| U3 | It can use Smart Objects and seamlessly transfer content between Adobe family programs. | X |  | X |  |
| U4 | Can create a multi-page catalog design | X |  | X |  |
| U5 | Can create a business card design | X |  | X |  |
| U6 | Can integrate AI-generated elements into its projects | X |  | X |  |
| After completing the course, the student is ready to take part in **social competences.** | | | | | | |
| K1 | Is able to justify the choice of the artistic concept in relation to the task being performed. | INF\_K03 | X |  | X |  |

3.3. Forms of teaching and their number of hours - Full-time studies (ST), Part-time studies (NST)

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| Path | Lecture | Exercises | Design | Workshop | Laboratory | Seminar | Lecturer | Classes conducted using distance learning methods and techniques in the form of a lecture. | Other | **ECTS points** |
| **ST** |  |  |  |  | 40 |  |  | 20 |  | 5 |
| **NST** |  |  |  |  | 15 |  |  | 10 |  | 5 |

3.4. Content of education (separately for each form of classes: (W, ĆW, PROJ, WAR, LAB, LEK, OTHER). It should be marked (X) how the given content will be implemented (classes at the university or classes on the e-learning platform conducted using distance learning methods and techniques)

TYPE OF CLASS: LECTURE

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| No. | Content of the course | Reference to subject-specific learning outcomes | Method of implementation (mark "X") | | | |
| ST | | NST | |
| **Classes at the University** | **Activities on  the platform** | **Classes at the University** | **Activities on  the platform** |
| 1. | The most important principles of working with graphics for multi-circulation publications. | W1, W3, W4 |  | X |  | X |
| 2. | Basics of DTP. Preparation for printing. | W1, W4 |  | X |  | X |
| 3. | The most important tools in Adobe InDesign | W3, W4, W5 |  | X |  | X |
| 4. | Typography – principles of work, formatting. | W2, W3, W5 |  | X |  | X |
| 5. | Summary of classes and discussion of grades. |  |  | X |  | X |

TYPE OF CLASS: LABORATORY

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| No. | Content of the course | Reference to subject-specific learning outcomes | Method of implementation (mark "X") | | | |
| ST | | NST | |
| **Classes at the University** | **Activities on  the platform** | **Classes at the University** | **Activities on  the platform** |
| 1. | Exercises – Learning the most important tools of Adobe In design | U1, U3 | X |  | X |  |
| 2. | Exercises – Designing a multi-page catalog (InDesign, Illustrator) | U1, U3, K1 | X |  | X |  |
| 3. | Exercises – Designing a Business Card (Illustrator, Photoshop) | U3, U5, K1 | X |  | X |  |
| 4. | Exercise – creating your own generative AI elements and integrating them into your own project (Illustrator, Photoshop) | U2, U3, U6, K1 | X |  | X |  |
| 5. | Catalog design in Adobe InDesign and logo design in Illustrator. | U2, U4, K1 | X |  | X |  |
| 6. | Summary of classes and discussion of grades. |  | X |  | X |  |

3.5. Methods of verifying learning outcomes (indication and description of methods of conducting classes and verification of achievement of learning outcomes and method of documentation)

LECTURE – During the lectures, the most important issues related to designing a multi-page publication intended for printing will be discussed. The most important issues related to typography will be discussed. Participants will learn about the Adobe InDesign tool, the most important functions of the program and the rules for exporting files for printing will be presented. Then, one of the generative AI models, e.g. Leonardo, will be discussed, the most important functions of the program will be presented and how to use and integrate generated elements in the prepared projects will be discussed. Knowledge from the lectures will be necessary to complete the tasks in the exercises.

Assessment of lectures: exam in the form of a 10-question test, single-choice, each question worth 2 points.

Grade 3 (sufficient): 11 – 12 points

Grade 3.5 (sufficient plus): 13 – 14 points

Rating 4 (good): 15 – 16 points

Rating 4.5 (good plus) 17 – 18 points

Rating 5 (very good): 19 – 20 points

LABORATORY – at the beginning of the lectures, students will be given several printed publications to analyze (e.g. art catalogs), together with the teacher, the main elements of the visual language of objects will be discussed. Particular emphasis will be placed on the use of typography. As an exercise, students will carry out tasks related to the design of such materials during classes, i.e. they will have to create a multi-page art catalog project in Adobe InDesign and design a Logotype in Illustrator. To pass, students will have to prepare two projects: 1. A multi-page publication (graphic elements + typography) 2. Graphics - leaflet design. The final grade is the average of the grades obtained.

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| Subject Effects | Teaching methods | Methods of verifying learning outcomes | Documentation methods |
| KNOWLEDGE | | | |
| W1-W5 | Lectures – detailed description of work techniques in the form of lectures on the PUW platform | Test-based exam | Test results on the PUW platform |
| SKILLS | | | |
| U1-U6 | Laboratories – exercises in the workshop | Project for credit – a publication of several pages (graphic elements + typography)  A project for a graphic design exam - leaflet design  The final grade is the average of the grades obtained. | A project for a final exam – a publication of several pages  graphic elements+typography  A project for a graphic design exam  (Works archived on the PUW platform) |
| SOCIAL COMPETENCES | | | |
| K1 | Laboratories – exercises in the workshop | Project for credit – a publication of several pages (graphic elements + typography)  A project for a graphic design exam  The final grade is the average of the grades obtained. | A project for a final exam – a publication of several pages  graphic elements+typography  A project for a graphic design exam  (Works archived on the PUW platform) |

3.6. Assessment criteria for the achieved learning outcomes

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| Learning effect | For a grade of 3 or "pass."  the student knows and understands/is able to/is ready to | For a grade of 3.5, the student knows and understands/is able to/is ready to | For a grade of 4, the student knows and understands/is able to/is ready to | For a grade of 4.5, the student knows and understands/is able to/is ready to | For a grade of 5, the student knows and understands/is able to/is ready to |
| W | 51-60% of knowledge indicated in learning outcomes | 61-70% of knowledge indicated in learning outcomes | 71-80% of knowledge indicated in learning outcomes | 81-90% of knowledge indicated in learning outcomes | 91-100% of knowledge indicated in learning outcomes |
| U | 51-60% of skills indicated in learning outcomes | 61-70% of skills indicated in learning outcomes | 71-80% of skills indicated in learning outcomes | 81-90% of skills indicated in learning outcomes | 91-100% of skills indicated in learning outcomes |
| K | 51-60% of skills indicated in learning outcomes | 61-70% of skills indicated in learning outcomes | 71-80% of skills indicated in learning outcomes | 81-90% of skills indicated in learning outcomes | 91-100% of skills indicated in learning outcomes |

3.7. Literature

**Basic**

1. Willberg H.P., Forssman F., Pierwsza pomoc w typografii: : poradnik używania pisma, Słowo/Obraz Terytoria, Gdańsk, 2008
2. Ambrose G., Harris P., Pre-press : poradnik dla grafików, PWN, Warszawa, 2010
3. Baines P., Haslam A., Pismo i typografia, PWN, Warszawa, 2010

**Supplementary:**

1. Zakrzewski P., Kompedium DTP: Adobe Photoshop, Illustrator, InDesign i Acrobat w praktyce, Helion, Gliwice, 2011

4. Student workload - ECTS points balance

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| --- | --- | --- |
| **Types of student activity** | **Student Load** | |
| **ST** | **NST** |
| **Classes requiring direct contact between the student and the academic teacher at the university premises** | **60** | **25** |
| Classes included in the study plan | 60 | 25 |
| **Student's own work** | **65** | **100** |
| Ongoing preparation for classes, preparation of project work/presentations/etc. | 35 | 50 |
| Preparation for passing classes | 30 | 50 |
| **TOTAL STUDENT HOURLY LOAD** | **125** | **125** |
| **Number of ECTS points** | **5** | **5** |

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| Last change date | 30/09/2024 |
| The changes were introduced | INF Education Quality Team |
| The changes were approved | Arkadiusz Gwarda, M.A. |