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| 1. | Field of study | Games and Virtual Reality Design |
| 2. | Faculty | Faculty of Fine Arts and Educational Science |
| 3. | Academic year of entry | 2023/2024 (winter term), 2024/2025 (winter term) |
| 4. | Level of qualifications/degree | first-cycle studies |
| 5. | Degree profile | practical |
| 6. | Mode of study | full-time |

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| 7. | General information about the module | |
| Module name | 3D TECHNIQUES PART 2 | |
| Module code | W6-PG-S1-T3D.2 | |
| Number of the ECTS credits | 4 | |
| Language of instruction | Polish | |
| Purpose and description of the content of education | The student will learn the principles of modeling three-dimensional objects based on computer graphics tools. He/she will acquire the ability to create three-dimensional models for further editing and use in the process of creating computer games. | |
| List of modules that must be completed before starting this module (if necessary) | not applicable | |

| 8. | Learning outcomes of the module | | |
|-------------|--|---|---------------------------------------|
| Code | Description | Learning outcomes of the programme | Level of competenc (scale 1-5) |
| K01 | Readiness to collect, analyze and interpret the information necessary to create 3D objects. | W6-PG1P-K01 | 2 |
| K02 | Readiness to realize concepts and three-dimensional projects based on a diverse style, resulting from imagination, expression, and intuition. | W6-PG1P-K02 W6-PG1P-K05 | 2 2 |
| U01 | Ability to represent a real object in a virtual three-dimensional space. | W6-PG1P-U01 | 2 |
| U02 | Ability to consciously use a set of tools for modeling virtual three-dimensional objects. | W6-PG1P-U02 W6-PG1P-U05 | 2 2 |
| U03 | Ability to create elaborate virtual three-dimensional objects taking into account their further processing and use in computer game development. | W6-PG1P-U01 W6-PG1P-U02 | 2 2 |
| W01 | Knowledge the tools and the issues of creating elaborate 3D graphics. | W6-PG1P-W01 W6-PG1P-W03 | 2 2 |
| W02 | Knowledge of technological dependencies in the implementation of 3D projects. | W6-PG1P-W03 W6-PG1P-W06 W6-PG1P-W08 | 2 2 2 |

| 9. Methods of conducting classes | | |
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| Code | Category | Name (description) |
| a03 | Lecture methods / expository methods | Description <i>a description of objects, phenomena, processes or people; it involves specifying the structure and characteristic features of the object, phenomenon, or process being described; it is usually accompanied by a demonstration of the described object or by its models, drawings, tables, charts, etc.; a description may take the form of an explanation, classification, justification or comparison</i> |
| a05 | Lecture methods / expository methods | Explanation/clarification <i>explication involving the derivation of a predetermined theorem from other, already known ones, in the number of steps specified by the person teaching the course</i> |
| c01 | Demonstration methods | Exhibition <i>preparing an object for public display and displaying it in order to elicit a specific reaction; creating a themed collection of specimens/objects/works to illustrate a specific issue</i> |
| c07 | Demonstration methods | Screen presentation <i>a presentation of synthetic image content using computer graphics, e.g., a series of slides or other multimedia forms, usually accompanied by a commentary; typical components of a screen presentation include text organized into bulleted points, charts, images and animations, sometimes sound effects or music; a multimedia illustration of course content presented in the form of a projected image</i> |
| d01 | Programmed learning methods | Working with a computer <i>e.g., Webquest; implementation of educational tasks using electronic and digital devices, computer programs and Internet applications; the academic teacher acts as a consultant; students' work is carried out step by step according to the plan laid own by the person teaching the course and following his instructions, and proceeds towards producing the indicated results within the set deadline</i> |
| e02 | Practical methods | Production exercise – workshop <i>an activity involving the creation of an object/product according to the rules/principles/description provided by the academic teacher acting as the workshop master</i> |
| e04 | Practical methods | Project scheduling <i>proceeding according to the steps proposed within a specific methodology for the completion of a task; e.g., identifying project objectives, determining the result, identifying strengths, limitations, opportunities and threats (SWOT), establishing a schedule of activities, assessing resources, establishing an implementation plan; the initial diagnosis; the reassessment of assumptions; the process of preparing the practical implementation of a project</i> |
| e06 | Practical methods | Observation <i>also conducted as fieldwork; a method of watching phenomena, objects or people in a systematic/planned way in order to gain knowledge about them; perceptual separation of elements of a model action as an element of learning through imitation; a complex system of cognition based on sensory experiences</i> |
| f01 | Methods of self-learning | Self-education <i>a method which involves independent acquisition of knowledge, skills and social competences, extending their scope and quality; complementary to the learning process taking place in class; taking on the task of developing and adjusting qualifications on one's own; self-study</i> |
| f03 | Methods of self-learning | Conceptual work <i>a (mainly intellectual) activity carried out independently (or in a selected group) resulting in the creation of a concept, idea or project; creating a plan based on a vision; developing a general outline of a project; producing a simplified sketch of the variant versions of a procedure/product/work</i> |

| 10. Forms of teaching | | | | | |
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| Code | Name | Number of hours | Assessment of the learning outcomes of the module | Learning outcomes of the module | Methods of conducting classes |
| _fs_1 | practical classes | 40 | course work | K01, K02, U01, U02, U03, W01, W02 | a03, a05, c01, c07, d01, e02, e04, e06, f01, f03 |

| 11. The student's work, apart from participation in classes, includes in particular: | | | |
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| Code | Category | Name (description) | Is it part of the BUNA? |
| a01 | Preparation for classes | Search for materials and review activities necessary for class participation <i>reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes</i> | Yes |
| a02 | Preparation for classes | Literature reading / analysis of source materials <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i> | Yes |
| a03 | Preparation for classes | Developing practical skills <i>activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)</i> | Yes |
| a05 | Preparation for classes | Production/preparation of tools, materials or documentation necessary for class participation <i>developing, preparing and assessing the usefulness of tools and materials (e.g. aids, scenarios, research tools, equipment, etc.) to be employed in class or as an aid when preparing for classes</i> | Yes |
| b01 | Consulting the curriculum and the organization of classes | Getting acquainted with the syllabus content <i>reading through the syllabus and getting acquainted with its content</i> | Yes |
| b03 | Consulting the curriculum and the organization of classes | Consulting the schedule <i>getting acquainted with the class schedule, possibly in the presence of the year tutor, in order to optimize participation in classes, including those supplementary to the core subjects listed in the pursued study programme</i> | Yes |
| c01 | Preparation for verification of learning outcomes | Determining the stages of task implementation contributing to the verification of learning outcomes <i>devising a task implementation strategy embracing the division of content, the range of activities, implementation time and/or the method(s) of obtaining the necessary materials and tools, etc.</i> | Yes |

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: <https://usosweb.us.edu.pl>.