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| 1. | Field of study | Music in Multimedia |
| 2. | Faculty | Faculty of Fine Arts and Educational Science |
| 3. | Academic year of entry | 2025/2026 (winter term) |
| 4. | Level of qualifications/degree | second-cycle studies |
| 5. | Degree profile | practical |
| 6. | Mode of study | full-time |

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| 7. | General information about the module | |
| Module name | | Implementation of Sound - Middleware |
| Module code | | W6-MM-DG-S2-IMD |
| Number of the ECTS credits | | 4 |
| Language of instruction | | Polish |
| Purpose and description of the content of education | | Celem przedmiotu jest zapoznanie studentów z możliwościami, jakie daje wykorzystanie programów pośredniczących, takich jak fmod czy Wwise, do implementacji dźwięku. |
| 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) | |
| W6-MM-DG-S2-IMD_1 | The student knows and understands advanced methods of sound implementation using FMOD and Wwise programs as well as complex relationships of their application in multimedia projects. | W6-MM-S2-W04 | 3 | |
| W6-MM-DG-S2-IMD_2 | The student knows and understands complex methods of configuring game engines for cooperation with middleware programs as well as main developmental trends in this area. | W6-MM-S2-W04 | 3 | |
| W6-MM-DG-S2-IMD_3 | The student is able to prepare complex audio events using advanced sound effects in middleware programs, solving atypical technical problems. | W6-MM-S2-U01 | 3 | |
| W6-MM-DG-S2-IMD_4 | The student is able to create innovative interactive music and sound effects in project conditions. | W6-MM-S2-U01 | 3 | |

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| 9. | Methods of conducting classes | | |
| | Code | Category | Name (description) |
| | c06 | Demonstration methods | Demonstration-imitation <i>a presentation of a model way of performing specific activities accompanied by a commentary; it aims at triggering imitation activities in an individual or in a group of participants observing the activities of the person teaching the course until the right habit is formed through regular exercise; the demonstration-imitation method is combined with a physical practice of activities/behaviours</i> |
| | d01 | Programmed learning methods | Working with a computer |

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| | | 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 |
| e01 | Practical methods | Laboratory exercise / experiment [also conducted as fieldwork] a method of practical application of knowledge; implemented in three stages: the recognition of a problem induced by the task content, the formulation of the problem and the attempt to solve it accompanied by the assessment of the effects; the goal is to acquire skills, abilities and habits, and to consolidate the acquired knowledge so that it becomes operational; the laboratory method assumes greater independence of learners than carrying out an experiment |

| 10. Forms of teaching | | | | | |
|-----------------------|-------------------|-----------------|---|--|-------------------------------|
| Code | Name | Number of hours | Assessment of the learning outcomes of the module | Learning outcomes of the module | Methods of conducting classes |
| MM-DG-S2-IMD_fs_1 | practical classes | 30 | course work | W6-MM-DG-S2-IMD_1, W6-MM-DG-S2-IMD_2, W6-MM-DG-S2-IMD_3, W6-MM-DG-S2-IMD_4 | c06, d01, e01 |

| 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? |
| a03 | Preparation for classes | Developing practical skills 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) | No |
| a05 | Preparation for classes | Production/preparation of tools, materials or documentation necessary for class participation 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 | Yes |
| c03 | Preparation for verification of learning outcomes | Implementation of an individual or group assignment necessary for course/phase/ examination completion a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course | 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>.