



Subject card

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| Subject name and code | Systems Modeling and Simulation, E:41054W0 | | | | | | | | | | |
| Field of study | Space and Satellite Technologies | | | | | | | | | | |
| Date of commencement of studies | February 2025 | | Academic year of realisation of subject | | 2024/2025 | | | | | | |
| Education level | second-cycle studies | | Subject group | | | | | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | | | | | |
| Year of study | 1 | | Language of instruction | | English | | | | | | |
| Semester of study | 1 | | ECTS credits | | 3.0 | | | | | | |
| Learning profile | | | Assessment form | | assessment | | | | | | |
| Conducting unit | Department Of Intelligent And Decision Support Systems -> Faculty Of Electrical And Control Engineering -> Wydział Politechniki Gdańskiej | | | | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Tomasz Zubowicz | | | | | | | | |
| | Teachers | | dr inż. Tomasz Zubowicz dr inż. Krzysztof Armiński dr inż. Bartosz Puchalski | | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM | | | | |
| | Number of study hours | 30.0 | 0.0 | 30.0 | 0.0 | 0.0 | 60 | | | | |
| E-learning hours included: 0.0 | | | | | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM | | | | |
| | Number of study hours | 60 | | 0.0 | | 0.0 | 60 | | | | |
| Subject objectives | To familiarise students theoretically and practically with modelling and identification of space systems and components. | | | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | | | |
| | K7_W06 | | Student has knowledge of the typical steps and milestones in system modelling and simulation. | | | [SW1] Assessment of factual knowledge | | | | | |
| | [K7_K03] Can analyse and implement assigned tasks while maintaining high technical standards. Is able to work and interact in a group, taking on different roles. Adheres to the principles of professional ethics and respects the diversity of views and cultures. | | He implements tasks related to system modeling and simulation with maintaining high technical standards. | | | [SK2] Assessment of progress of work | | | | | |
| | K7_U08 | | Student is able to implement tasks in the field of system modeling and simulation. | | | [SU1] Assessment of task fulfilment | | | | | |
| Subject contents | <ul style="list-style-type: none">Modelling and identification of space systems and componentsSystem structural identification techniquesSystem parameter identificationNeural and fuzzy modelling | | | | | | | | | | |
| Prerequisites and co-requisites | - | | | | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | | | | | |
| | exam | | 50.0% | | 50.0% | | | | | | |
| Recommended reading | Basic literature | | Students will receive a reading list at the beginning of the semester. | | | | | | | | |

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| | Supplementary literature | - |
| | eResources addresses | Adresy na platformie eNauczanie: Systems Modeling and Simulation [WIMiO][2024/25] - Moodle ID: 45866 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45866 |
| Example issues/ example questions/ tasks being completed | - | |
| Work placement | Not applicable | |

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