



Subject card

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|---|---|--|----------|-------------------------------------|--|------------|-----|
| Subject name and code | Technological Platforms, PG_00047724 | | | | | | |
| Field of study | Informatics | | | | | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | | | 2026/2027 | | |
| Education level | second-cycle studies | Subject group | | | Obligatory subject group in the field of study Subject group related to scientific research in the field of study | | |
| Mode of study | Part-time studies | Mode of delivery | | | at the university | | |
| Year of study | 1 | Language of instruction | | | Polish | | |
| Semester of study | 2 | ECTS credits | | | 5.0 | | |
| Learning profile | general academic profile | Assessment form | | | exam | | |
| Conducting unit | Department of Computer Architecture -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Jarosław Kuchta | | | | | |
| | Teachers | dr inż. Jarosław Kuchta mgr Anna Domagalska | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 12.0 | 0.0 | 18.0 | 0.0 | 0.0 | 30 |
| | 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 | 30 | | 10.0 | | 85.0 | 125 |
| Subject objectives | The aim of the course is to present advanced techniques of using selected technological platforms (e.g. .NET & Java) in the development of modern applications. | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [K7_U04] can apply knowledge of programming methods and techniques as well as select and apply appropriate programming methods and tools in computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, making assessment and critical analysis of the prepared software as well as a synthesis and creative interpretation of information presented with it | The student is able to use advanced tools of programming environments on selected technology platforms. | [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment |
| | [K7_U03] can design, according to required specifications, and make a complex device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment | The student is able to design the user interface and the structure of the database using tools related to selected technological platforms. | [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment |
| | [K7_K03] is ready to meet social obligations, inspire and organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way | The student is able to create modern applications for solving social and business problems. | [SK5] Assessment of ability to solve problems that arise in practice |
| Subject contents | Course content – lecture 1. Introduction: comparison of selected technological platforms (.NET, Java) 2. Component approach to application development 3. Graphical user interface platforms 4. Modeling and implementing data access in applications 5. Web-based applications 6. Asynchronous and multithreading in applications | | |
| Prerequisites and co-requisites | Object oriented programming in C # or Java languages | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | lecture | 50.0% | 50.0% |
| | laboratory | 50.0% | 50.0% |
| Recommended reading | Basic literature | 1. Andrew Troelsen, Philip Japikse: Pro C# 7: With .NET and .NET Core, APRESS. 2017 2. https://docs.microsoft.com/en-gb/ 3. Antonio Goncalves: Beginning Java EE 7, APRESS, 2013 4. https://docs.oracle.com/javase/8/docs/api/ | |
| | Supplementary literature | brak | |
| | eResources addresses | | |
| Example issues/ example questions/ tasks being completed | | | |
| Practical activities within the subject | Not applicable | | |

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