



Subject card

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|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code | Project management, PG_00053353 | | | | | | |
| Field of study | Biomedical Engineering, Biomedical Engineering, Biomedical Engineering | | | | | | |
| Date of commencement of studies | February 2024 | Academic year of realisation of subject | | | 2023/2024 | | |
| Education level | second-cycle studies | Subject group | | | Optional subject group Subject group related to scientific research in the field of study | | |
| Mode of study | Full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 1 | Language of instruction | | | Polish | | |
| Semester of study | 1 | ECTS credits | | | 2.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Department of Computer Architecture -> Faculty of Electronics, Telecommunications and Informatics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Jarosław Kuchta | | | | | |
| | Teachers | dr inż. Jarosław Kuchta | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 15.0 | 0.0 | 0.0 | 0.0 | 15 |
| 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 | 15 | | 5.0 | | 30.0 | 50 |
| Subject objectives | Understanding the basics of project management with particular emphasis on IT projects | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | [K7_K01] is ready to create and develop models of proper behaviour in the work and life environment; undertake initiatives; critically evaluate actions of their own, teams and organisations they are part of; lead a group and take responsibility for its actions; responsibly perform professional roles taking into account changing social needs, including: n - developing the achievements of the profession, n- observing and developing rules of professional ethics and acting to comply to these rulesn | The student is ready to take responsibility for the created project in the context of the organization. | | | [SK1] Assessment of group work skills [SK3] Assessment of ability to organize work | | |
| | [K7_W05] Knows and understands, to an increased extent, methods of process and function support, specific to the field of study. | Student zna i rozumie metodyki klasyczne i zwinne wytwarzania oprogramowania. | | | [SW1] Assessment of factual knowledge | | |
| | [K7_W06] Knows and understands, to an increased extent, the basic processes taking place in the life cycle of devices, facilities and technical systems. | The student knows and understands the life cycle of systems, especially IT systems. | | | [SW1] Assessment of factual knowledge | | |
| [K7_U11] can manage team work | The student is able to collect project requirements, estimate costs, plan a schedule and analyze the risk. | | | [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment | | | |

| Subject contents | <ol style="list-style-type: none"> 1. Introduction to project management. Two approaches to management 2. Classic methodologies of IT project management: cascade, iteration-incremental, multiphase 3. Agile methodologies - problems and limitations 4. Requirements engineering - extracting requirements, requirements versus quality 5. Estimating labor needs, costs and time 6. Risk analysis | | | | | | | | | | | | | | |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|-------|
| Prerequisites and co-requisites | | | | | | | | | | | | | | | |
| Assessment methods and criteria | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Subject passing criteria</th> <th style="width: 30%;">Passing threshold</th> <th style="width: 30%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Small teams exercises</td> <td>50.0%</td> <td>40.0%</td> </tr> <tr> <td>Test</td> <td>50.0%</td> <td>30.0%</td> </tr> <tr> <td>Frequency</td> <td>50.0%</td> <td>30.0%</td> </tr> </tbody> </table> | | | Subject passing criteria | Passing threshold | Percentage of the final grade | Small teams exercises | 50.0% | 40.0% | Test | 50.0% | 30.0% | Frequency | 50.0% | 30.0% |
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| Test | 50.0% | 30.0% | | | | | | | | | | | | | |
| Frequency | 50.0% | 30.0% | | | | | | | | | | | | | |
| Recommended reading | <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 40%;">Basic literature</td> <td colspan="2" data-bbox="802 432 1487 613"> <ol style="list-style-type: none"> 1. Gregory Horine: Project Management Absolute Beginners Guide, 2017 2. Harol Kerzner: Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 2013 </td> </tr> <tr> <td>Supplementary literature</td> <td colspan="2" data-bbox="802 618 1487 696"> <ol style="list-style-type: none"> 1. PRINCE2 - The Executive Guide to Directing Projects, 2009 2. A Guide to the Project Management Body of Knowledge: PMBOK® Guide (Sixth Edition) </td> </tr> <tr> <td>eResources addresses</td> <td colspan="2" data-bbox="802 701 1487 792"> Adresy na platformie eNauczenie: Zarządzanie projektem (IBM) 2023/24 - Moodle ID: 37355 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=37355 </td> </tr> </tbody> </table> | | | Basic literature | <ol style="list-style-type: none"> 1. Gregory Horine: Project Management Absolute Beginners Guide, 2017 2. Harol Kerzner: Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 2013 | | Supplementary literature | <ol style="list-style-type: none"> 1. PRINCE2 - The Executive Guide to Directing Projects, 2009 2. A Guide to the Project Management Body of Knowledge: PMBOK® Guide (Sixth Edition) | | eResources addresses | Adresy na platformie eNauczenie: Zarządzanie projektem (IBM) 2023/24 - Moodle ID: 37355 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=37355 | | | | |
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| Example issues/ example questions/ tasks being completed | <ol style="list-style-type: none"> 1. Preparation of requirements specification 2. Estimation of labor intensity and costs 3. Development of the project schedule 4. Conducting a risk analysis | | | | | | | | | | | | | | |
| Work placement | Not applicable | | | | | | | | | | | | | | |