



Subject card

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| Subject name and code | Effective Project Management, PG_00055193 | | | | | | |
| Field of study | Mechanical Engineering | | | | | | |
| Date of commencement of studies | October 2025 | Academic year of realisation of subject | | | 2026/2027 | | |
| Education level | first-cycle studies | Subject group | | | | | |
| Mode of study | Full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 2 | Language of instruction | | | English | | |
| Semester of study | 3 | ECTS credits | | | 1.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Aleksandra Wiśniewska | | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
| | E-learning hours included: 0.0 | | | | | | |
| | eNauczenie source address: https://enauczenie.pg.edu.pl/moodle/course/view.php?id=6979 | | | | | | |
| 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 | | 0.0 | | 0.0 | 15 |
| Subject objectives | The aim of the course is to familiarize students with modern methods of effective project management, to present principles, methods and tools supporting decision-making and control processes with particular emphasis on individualized approach to the specifics of the project and its surroundings. | | | | | | |

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|---------------------------------|---|--|---|
| | [K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects | The student defines the rules managing people in systems quality. The student knows and can apply the principles of leadership and motivating. The student understands need to update owned knowledge and can identify and use sources of knowledge. The student knows the rules of Improvement Continuing and benefits flowing from skillful use of resource potential human in terms of creativity and innovation. | [SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work |
| | [K6_K02] understands ex-technical aspects of the activities included in the profession of a mechanical engineer, among others its social impact and influence on the condition of an environment; is aware of the responsibility connected with the decisions made in connection with engineering activity | The student uses knowledge obtained under different modules to be assessed non-technical effects engineering activities i adopts attitudes responsible. | [SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work |
| | [K6_W12] possesses basic knowledge necessary to understand the ex-technical conditions of engineering activity, possesses basic knowledge on management, including quality management and running commercial enterprise, within the range of protection of intellectual property and patent law; knows general principles of creating and developing forms of individual entrepreneurship and basic HSE rules applicable to machine industry | The student recognizes the constants and project variables and can define their mutual relations and impact on the project. | [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge |
| Subject contents | <p>Course content – lecture</p> <ol style="list-style-type: none"> 1. Traditional Project Management vs. Modern Project Management. 2. Project Activities - estimating duration, resource requirements and cost. 3. Work Breakdown Structure and Project Network Diagram. 4. Earned Value Method System - monitoring and controlling progress and budget. 5. Managing the Project Team. 6. Closing Out the Projects. 7. Adaptive Project Framework. 8. Organizational Considerations. | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Colloquium | 60.0% | 100.0% |

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| Recommended reading | Basic literature | <p>1. Effective Project Management; Robert Wysocki, Rudd McGary; Wiley Publishing; 2003 Canada; ISBN: 0-471-43221-0</p> <p>2. Project Management Body of Knowledge (PMBOK); Project Management Institute; ISBN13:9781628253825</p> |
| | Supplementary literature | <p>1. Lockyer K. and Gordon J., Project management and project network techniques, Financial Times Prentice Hall, 7th edition, 2005, ISBN 0-273-69378-6.</p> <p>2 Burke R., Project management: planning and control techniques, John Wiley & Sons, 4th edition, 2003, ISBN 0470851244.</p> <p>3. Kerzner H., Project management: A systems approach to planning, scheduling and controlling, John Wiley & Sons, 8th edition, 2003, ISBN 0-471-22577-0.</p> <p>4. Gray C.E. and Larson E.W., Project management: the managerial process, McGraw- Hill, 3rd edition, 2006, ISBN 007-124446</p> <p>5. Meredith J.R. and Jr. Mantel S.J., Project management: a managerial approach, John Wiley & Sons, 5th edition, 2003, ISBN 0-471-07323-7.</p> |
| | eResources addresses | |
| Example issues/ example questions/ tasks being completed | <ul style="list-style-type: none"> • Work Breakdown Structure • Critical Path Method • Value Earned Method • Teamwork • Risk Management | |
| Practical activities within the subject | Not applicable | |

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