



Subject card

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| Subject name and code | CYBERSECURITY MANAGEMENT, PG_00061870 | | | | | | |
| Field of study | Engineering Management | | | | | | |
| Date of commencement of studies | October 2024 | | Academic year of realisation of subject | | 2026/2027 | | |
| Education level | first-cycle studies | | Subject group | | Optional subject group 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 | 3 | | Language of instruction | | Polish | | |
| Semester of study | 6 | | ECTS credits | | 3.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. inż. Rafał Leszczyna | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 8.0 | 0.0 | 8.0 | 0.0 | 0.0 | 16 |
| | 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 | 16 | | 6.0 | | 53.0 | 75 |
| Subject objectives | Analyzes and critically assesses threats to cybersecurity of the company's IT resources, designing appropriate protection measures | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_U07] applies information technology to improve critical analysis and evaluation of data and management processes | | critically assesses the problems of cybersecurity threats in the enterprise and defines appropriate protection measures | | [SU3] Assessment of ability to use knowledge gained from the subject | | |
| | [K6_W03] identifies reliable sources of information relevant to the analyzed issues | | analyzes the enterprise and its IT resources, identifying cybersecurity threats | | [SW1] Assessment of factual knowledge | | |
| Subject contents | Basic concepts and concepts of cyber security Usable cybersecurity Cybersecurity management proces Cybersecurity risk management Cyber security threats Selected standards and guidelines for cybersecurity Security | | | | | | |
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | |
| | Active participation in the lecture | | 60.0% | | 5.0% | | |
| | Knowledge test | | 60.0% | | 45.0% | | |
| | Laboratory exercises | | 60.0% | | 50.0% | | |
| Recommended reading | Basic literature | | ISO/IEC 27001:2017 NIST SP 800-53 Revision 5 Computer security handbook, edited by Seymour Bosworth, M. E. Kabay and Eric Whyne. 6th ed. Wiley, 2014 Ross Anderson, Security Engineering Third Edition, https://www.cl.cam.ac.uk/~rja14/book.html David Kennedy, Jim OGorman, Devon Kearns, and Mati Aharoni, Metasploit: The Penetration Testers Guide, No Starch Press, 2011 | | | | |

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| | Supplementary literature | Stuart McClure, Joel Scambray, George Kurtz, Hacking Exposed: Network Security Secrets & Solutions, Osborne/McGraw-Hill, 2001 Matt Bishop, Introduction to Computer Security, Prentice Hall PTR 2004 Micki Krause, Harold F. Tipton, Information Security Management Handbook, Auerbach 2007 Steve Purser, A Practical Guide to Managing Information Security, Artech 2004 Matt Bishop, Computer Security: Art and Science, Addison Wesley 2002 ISO/IEC 15408 (Common Criteria) Sjaak Laan, IT Infrastructure Architecture Infrastructure Building Blocks and Concepts, Lulu Press Inc. 2017 |
| | eResources addresses | Adresy na platformie eNauczanie: |
| Example issues/ example questions/ tasks being completed | Perform an enterprise analysis. Identify and describe its cyber resources Identify independent cybersecurity risk lists and develop your own cyberthreat list Estimate your cybersecurity risk Explain a systematic approach to enterprise cybersecurity management Choose a cybersecurity standard, justify your choice Give an example of a violation of the integrity of a cyber resource Give an example of a security measure to reduce the risk of accounting data being copied by unauthorized users Provide and explain the formula for cybersecurity risk Point out and explain the most common strategies for dealing with cybersecurity threats Describe the basic features of access control | |
| Work placement | Not applicable | |

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