

## Subject card

|                                             |                                                                                                                                                                                        |                                                          |                                         |                                     |                                                                                                             |            |     |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Personal Data Protection and Electronic Medical Records, PG_00155927                                                                                                                   |                                                          |                                         |                                     |                                                                                                             |            |     |
| Field of study                              | Management of Healthcare Institutions                                                                                                                                                  |                                                          |                                         |                                     |                                                                                                             |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                           |                                                          | Academic year of realisation of subject |                                     | 2027/2028                                                                                                   |            |     |
| Education level                             | Bachelor's studies                                                                                                                                                                     |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study<br>Subject group related to practical vocational preparation |            |     |
| Mode of study                               | full-time studies                                                                                                                                                                      |                                                          | Mode of delivery                        |                                     | at the university                                                                                           |            |     |
| Year of study                               | 3                                                                                                                                                                                      |                                                          | Language of instruction                 |                                     | Polish                                                                                                      |            |     |
| Semester of study                           | 6                                                                                                                                                                                      |                                                          | ECTS credits                            |                                     | 2.0                                                                                                         |            |     |
| Learning profile                            | practical                                                                                                                                                                              |                                                          | Assessment form                         |                                     | credit                                                                                                      |            |     |
| Conducting unit                             |                                                                                                                                                                                        |                                                          |                                         |                                     |                                                                                                             |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                     |                                                          | dr Dariusz Kralewski                    |                                     |                                                                                                             |            |     |
|                                             | Teachers                                                                                                                                                                               |                                                          |                                         |                                     |                                                                                                             |            |     |
| Lesson types                                | 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                                                       |                                         | 15.0                                |                                                                                                             | 20.0       | 50  |
| Subject objectives                          | <ul style="list-style-type: none"><li>• Provision of information on current legislation on personal data protection</li><li>• Software supporting electronic medical records</li></ul> |                                                          |                                         |                                     |                                                                                                             |            |     |

| Learning outcomes | Course outcome                                                                                                                                                                                                                               | Subject outcome                                                                                                                                                                                                                          | Method of verification                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|                   | [ZISZL3_K05] The student understands the need and is aware of the necessity to behave in an ethical, sustainable and socially responsible manner in professional life.                                                                       | The student is aware of the risks to patient data The student is aware of the continuous improvement and deepening of knowledge in the field of security                                                                                 | [SK5] implementation of a problem task  |
|                   | [ZISZL3_U02] The student is able to correctly use the basic legal acts regulating the sphere of formal and legal organization of the creation and operation of enterprises in Poland, in particular medical entities.                        | The student is able to use basic legal acts on data security The student is able to identify the strengths and weaknesses of data security The student is able to create a security policy for a health care unit                        | [SU5] implementation of a problem task  |
|                   | [ZISZL3_K09] The student takes a responsible and ethical approach to the social role of the profession he represents.                                                                                                                        | The student is aware of the risks to patient data The student is aware of the continuous improvement and deepening of knowledge in the field of security                                                                                 | [SK6] demonstration of practical skills |
|                   | [ZISZL3_W04] The student has advanced knowledge of the organizational and legal forms of health care entities, knows and understands the relevant concepts of legal sciences, principles, norms and laws relating to health care activities. | The student understands the importance of patient data security The student is familiar with the legal regulations on electronic medical records The student has knowledge of various security threats and ways to illegally obtain data | [SW5] implementation of a problem task  |
|                   | [ZISZL3_U05] The student is able to correctly select and apply methods and tools used, inter alia, in management and quality sciences, economics, sociology adequate to the problem and specificity of management of medical entities.       | The student is able to use basic legal acts on data security The student is able to identify the strengths and weaknesses of data security The student is able to create a security policy for a health care unit                        | [SU5] implementation of a problem task  |
|                   | [ZISZL3_K02] The student applies an analytical approach to problem solving, is able to independently search for solutions, as well as use expert opinions.                                                                                   | The student is aware of the risks to patient data The student is aware of the continuous improvement and deepening of knowledge in the field of security                                                                                 | [SK5] implementation of a problem task  |
|                   | [ZISZL3_W07] The student knows and understands the impact of medical activity on the environment and society, as well as the accompanying legal and ethical implications.                                                                    | The student understands the importance of patient data security The student is familiar with the legal regulations on electronic medical records The student has knowledge of various security threats and ways to illegally obtain data | [SW5] implementation of a problem task  |
|                   | [ZISZL3_K01] The student is able to critically analyse the received content with particular emphasis on social and economic sciences.                                                                                                        | The student is aware of the risks to patient data The student is aware of the continuous improvement and deepening of knowledge in the field of security                                                                                 | [SK5] implementation of a problem task  |
|                   | [ZISZL3_K04] The student is able to supplement and expand the acquired knowledge and skills, strives to interdisciplinarily combine knowledge from different fields and disciplines of science.                                              | The student is aware of the risks to patient data The student is aware of the continuous improvement and deepening of knowledge in the field of security                                                                                 | [SK5] implementation of a problem task  |

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| Subject contents                                               | <ul style="list-style-type: none"><li>- Legal regulation of access to information</li><li>- Freedom of information and the right to public information</li><li>- Protection of privacy of individuals- Protection of business secrets</li><li>- Common crimes committed with the help of information technology tools</li><li>- Computer crimes- Hacking. Unauthorized access to information</li><li>- Electronic medical records of patients</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |
| Prerequisites and co-requisites                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Percentage of the final grade |
|                                                                | completion of the assessment work - completion of the specified practical work                                                                                                                                                                                                                                                                                                                                                                          | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100.0%                        |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"><li>• K. R. Ong, Medical Informatics: An Executive Primer, Third Edition, HIMSS Publishing, 2015</li><li>• S. Biedermann, Introduction to Healthcare Informatics, AHIMA, 2017</li><li>• R. E. Hoyt, W. R. Hersh, Health Informatics: Practical Guide, Seventh Edition, Lulu.com, 2018</li><li>• R. Zajdel, E. Kącki, P.S. Szczepaniak, M. Kurzyński, Kompendium informatyki medycznej, Alfa-medica Press, Bielsko-Biała, 2003</li></ul> |                               |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"><li>• W. Trąbka, W. Komnata, L. Stalmach, A. Kozierkiewicz, Szpitalne systemy informatyczne, Vesalius, 1997</li><li>• E.H. Shortliffe, G.O. Barnett, Medical Data: Their Acquisition, Storage, and Use, w Edward H. Shortliffe Leslie E. Perreault, Medical Informatics. Computer Applications in Health Care and Biomedicine, Second Edition, Springer, 2001</li></ul>                                                                 |                               |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |
| Example issues/<br>example questions/<br>tasks being completed |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |

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