

## Subject card

|                                             |                                                                                                             |                                                          |                                         |                                     |                                                                                                                                                |            |     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Basic epidemiology, PG_00154551                                                                             |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Field of study                              | Medical Biology                                                                                             |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Date of commencement of studies             | October 2025                                                                                                |                                                          | Academic year of realisation of subject |                                     | 2026/2027                                                                                                                                      |            |     |
| Education level                             | Bachelor's studies                                                                                          |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study<br>Optional subject group<br>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                               | 2                                                                                                           |                                                          | Language of instruction                 |                                     | Polish                                                                                                                                         |            |     |
| Semester of study                           | 4                                                                                                           |                                                          | ECTS credits                            |                                     | 2.0                                                                                                                                            |            |     |
| Learning profile                            | academic                                                                                                    |                                                          | Assessment form                         |                                     | credit                                                                                                                                         |            |     |
| Conducting unit                             | Department of General and Medical Biochemistry -> Faculty of Biology -> Rector                              |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                          |                                                          | dr Dorota Gregorowicz-Warpas            |                                     |                                                                                                                                                |            |     |
|                                             | 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                                                       |                                         | 3.0                                 |                                                                                                                                                | 32.0       | 50  |
| Subject objectives                          | The aim of the course is to familiarize students with basic issues in epidemiology and infectious diseases. |                                                          |                                         |                                     |                                                                                                                                                |            |     |

| Learning outcomes               | Course outcome                                                                                                                                                                                                                          | Subject outcome                                                                                                                                                                                                                        | Method of verification                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                                 | [BIOLMEDL3_K03] is aware of his/her own limitations and knows when to seek expert assistance                                                                                                                                            | The student is aware of his own limitations and knows when to seek help from experts.                                                                                                                                                  | [SK8] observation of student's independent or team work                                                                      |
|                                 | [BIOLMEDL3_K01] understands the need for lifelong learning and to update his/her knowledge of medical biology and related disciplines                                                                                                   | The student understands the need for lifelong learning and updating knowledge in the field of medical biology and related disciplines.                                                                                                 | [SK8] observation of student's independent or team work                                                                      |
|                                 | [BIOLMEDL3_U15] learns independently, in a focused manner                                                                                                                                                                               | The student is able to learn independently, in a directed way.                                                                                                                                                                         | [SU1] oral statement/conversation/discussion<br>[SU4] test/exam - oral or written                                            |
|                                 | [BIOLMEDL3_U10] in Polish or English, prepares written, well-documented studies of selected problems in medical biology                                                                                                                 | The student has the ability to prepare a written, well-documented study of selected problems in medical biology in Polish or English.                                                                                                  | [SU1] oral statement/conversation/discussion<br>[SU4] test/exam - oral or written                                            |
|                                 | [BIOLMEDL3_U07] is able to identify problems corresponding to the needs of an individual and a social group and to undertake basic diagnostic, preventive and educational activities appropriate to the profession of medical biologist | The student is able to identify problems corresponding to the needs of an individual and a social group and to undertake basic diagnostic, preventive and educational activities appropriate to the profession of a medical biologist. | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written |
|                                 | [BIOLMEDL3_W12] is oriented in the development and current state of knowledge and the latest trends in medical biology; indicates their relationship with other disciplines of natural or medical sciences                              | The student is versed in the development and current state of knowledge and the latest trends in medical biology. Indicates their relationship with other disciplines of natural or medical sciences.                                  | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion                                            |
|                                 | [BIOLMEDL3_W11] posiada zaawansowaną wiedzę dotyczącą metod oceny stanu zdrowia oraz objawów i przyczyn wybranych zaburzeń i zmian chorobowych oraz zna podstawy zdrowego trybu życia, potrafi je uzasadnić i promować                  | The student has advanced knowledge of methods for assessing health status and the symptoms and causes of selected disorders and lesions, and knows the basics of a healthy lifestyle, is able to justify and promote them.             | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion                                            |
|                                 | [BIOLMEDL3_K04] is able to form opinions about individuals and social groups in a professional context                                                                                                                                  | The student is able to formulate opinions about individual people and social groups in the context related to their profession.                                                                                                        | [SK8] observation of student's independent or team work                                                                      |
| Subject contents                | [BIOLMEDL3_W07] has advanced knowledge of medical biology and is familiar with the health sciences terminology                                                                                                                          | The student has advanced knowledge of medical biology and knows the terminology of health sciences.                                                                                                                                    | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion                                            |
|                                 | 1. Epidemiology of infectious diseases.                                                                                                                                                                                                 |                                                                                                                                                                                                                                        |                                                                                                                              |
|                                 | 2. Epidemiology of infections, sources, causes, prevention. Types and control of infections and infectious diseases.                                                                                                                    |                                                                                                                                                                                                                                        |                                                                                                                              |
|                                 | 3. Population screening tests.                                                                                                                                                                                                          |                                                                                                                                                                                                                                        |                                                                                                                              |
|                                 | 4. Epidemiology of conditions and diseases related to food and nutrition.                                                                                                                                                               |                                                                                                                                                                                                                                        |                                                                                                                              |
| Prerequisites and co-requisites | 5. Epidemiology of conditions and diseases related to pollution of the municipal and occupational environment.                                                                                                                          |                                                                                                                                                                                                                                        |                                                                                                                              |
|                                 |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                        |                                                                                                                              |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                | Passing threshold                                                                                                                                                                                                                      | Percentage of the final grade                                                                                                |
|                                 | passing the hand hygiene procedure                                                                                                                                                                                                      | 51.0%                                                                                                                                                                                                                                  | 10.0%                                                                                                                        |
|                                 | colloquium I                                                                                                                                                                                                                            | 51.0%                                                                                                                                                                                                                                  | 40.0%                                                                                                                        |
|                                 | colloquium II                                                                                                                                                                                                                           | 51.0%                                                                                                                                                                                                                                  | 40.0%                                                                                                                        |
|                                 | multimedia presentation                                                                                                                                                                                                                 | 51.0%                                                                                                                                                                                                                                  | 10.0%                                                                                                                        |

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|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                | <p>1. Paradowska-Stankiewicz I., Rosińska M., Wojtyniak B., Zieliński A.: Epidemiology of theory to practice, PZWL, Warsaw 2021</p> <p>2. Webb P., Bain C., page E.: Epidemiologia, Ed. Scholarship holder, Warsaw 2021</p> <p>3. Boroń- Kaczmarek A., Wiercińska- Drapała A.: Infectious and parasitic diseases, PZWL, Warsaw 2019</p> <p>4. Bulanda M., Wójkowska-Mach J.: Nosocomial infections in a health care unit, PZWL, Warsaw 2016</p> <p>5. Bzdęga J., Gębska-Kuczerowska A.: Epidemiology in public institutions, PZWL, Warsaw 2010</p> <p>6. Cianciara J., Juszczyk J.: Infectious and parasitic diseases, Volume I, II, Ed. II, Czelej, Lublin 2012</p> <p>7. Denys A.: Hospital infections. Selected issues, ABC and Wolters Kluwer business, Warsaw 2012</p> <p>8. Denys A.: Hospital infections in selected departments, Vol. II, ABC and Wolters Kluwer, Warsaw 2013</p> <p>9. Dziubek Z.: Infectious and parasitic diseases, Ed. II, PZWL, Warsaw 2010</p> <p>10. Pawińska A.: Hospital prevention - protection of hospital safety, Ed. -medica press, Warsaw 2011</p> <p>11. Sygit M.: Public health, Ed. Wolters Kluwer Polska 2010</p> <p>12. Dzierżanowska D.: Hospital infections, Ed. -medica press, Bielsko-Biała 2008</p> |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                        | <p>1. Jabłoński L., Karwat I.D.: Basics of general epidemiology, epidemiology of infectious diseases, Ed. Czelej, Lublin 2002</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Example issues/<br>example questions/<br>tasks being completed | <p>Auditorium exercises - determining the final grade based on partial grades received during the semester (colloquia, final paper in the form of a multimedia presentation). Practical assessment of the hand hygiene procedure. In case of failure to pass the test, an oral examination.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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