

## Subject card

|                                             |                                                                                                                                                                                                          |                                                          |                                         |                                     |                                                                                                                                                |            |     |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Medical parasitology, PG_00154549                                                                                                                                                                        |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| 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                            |                                     | 3.0                                                                                                                                            |            |     |
| Learning profile                            | academic                                                                                                                                                                                                 |                                                          | Assessment form                         |                                     | credit                                                                                                                                         |            |     |
| Conducting unit                             | Laboratory of Parasitology and General Zoology -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector                                                                          |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                       |                                                          | prof. dr hab. Joanna Izdebska           |                                     |                                                                                                                                                |            |     |
|                                             | Teachers                                                                                                                                                                                                 |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                              | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                                                                                                                        | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                    | 0.0                                                      | 0.0                                     | 30.0                                | 0.0                                                                                                                                            | 0.0        | 30  |
|                                             | 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                                                                                                                                                                                    | 30                                                       |                                         | 8.0                                 |                                                                                                                                                | 37.0       | 75  |
| Subject objectives                          | 1. To get acquainted with the parasites of greatest importance to humans.<br>2. To present the routes of infection, to familiarize with the epidemiology of parasitosis and the principles of prevention |                                                          |                                         |                                     |                                                                                                                                                |            |     |

| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                        | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Method of verification                                                                                                                    |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | [BIOLMEDL3_W04] presents the characteristics, systematics and evolution of selected groups of organisms including molecular basis and describes the basic concepts and mechanisms of evolution                                                                                        | presents the characteristics, systematics and evolution of selected groups of parasitic organisms including molecular basis and describes the basic concepts and mechanisms of evolution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | [SW4] test/exam - oral or written<br>[SW2] presentation/project/paper/report                                                              |
|                                 | [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                                               | learns independently, in a focused manner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | [SU4] test/exam - oral or written<br>[SU6] demonstration of practical skills                                                              |
|                                 | [BIOLMEDL3_K03] is aware of his/her own limitations and knows when to seek expert assistance                                                                                                                                                                                          | is aware of his own limitations and knows when to turn to experts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | [SK1] oral statement/conversation/discussion<br>[SK6] demonstration of practical skills                                                   |
|                                 | [BIOLMEDL3_K01] understands the need for lifelong learning and to update his/her knowledge of medical biology and related disciplines                                                                                                                                                 | Understands the need for lifelong learning and updating knowledge of of medical parasitology and related disciplines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | [SK1] oral statement/conversation/discussion<br>[SK4] test/exam - oral or written                                                         |
|                                 | [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                                                                | Has a basic knowledge of health assessment methods and the symptoms and causes of human parasitoses, and knows the basics of a healthy lifestyle of life, is able to justify and promote them                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [SW4] test/exam - oral or written<br>[SW3] text preparation/written work<br>[SW5] implementation of a problem task                        |
|                                 | [BIOLMEDL3_U05] synthesises data from different sources and draws appropriate conclusions from them                                                                                                                                                                                   | synthesizes medical parasitology data from different sources and draws appropriate conclusions on this basis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [SU4] test/exam - oral or written<br>[SU6] demonstration of practical skills                                                              |
|                                 | [BIOLMEDL3_U02] is able to use basic equipment and apparatus used in diagnostics or neuroscience                                                                                                                                                                                      | Is able to use basic equipment and apparatus used in parasitological diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | [SU3] text preparation/written work<br>[SU6] demonstration of practical skills<br>[SU8] observation of student's independent or team work |
|                                 | [BIOLMEDL3_W03] knows the structure of the animal or human organism, the processes and functional relationships at the cellular, tissue, organ and organismal levels, and explains their relationship to behavior and adaptation of the organism to changing environmental conditions | presents the structure of parasitic organisms, processes and relationships functional relationships at the cellular, tissue, organ and organismal level, and explains their relationship to the behavior and adaptation of the parasite to the changing conditions of the environment and the host organism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [SW4] test/exam - oral or written<br>[SW2] presentation/project/paper/report                                                              |
| Subject contents                | Structure, adaptations and systematic review of parasites associated with humans. Methods used in parasitological diagnosis and principles of identification of parasites from different groups.                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                           |
| Prerequisites and co-requisites |                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                           |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                              | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Percentage of the final grade                                                                                                             |
|                                 | colloquium                                                                                                                                                                                                                                                                            | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100.0%                                                                                                                                    |
|                                 | attendance                                                                                                                                                                                                                                                                            | 85.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0%                                                                                                                                      |
| Recommended reading             | Basic literature                                                                                                                                                                                                                                                                      | <ol style="list-style-type: none"> <li>1. Buczek A. 2005. Atlas pasożytów człowieka. Koliber, Lublin.</li> <li>2. Deryło A. red. 2000. Skrypt do ćwiczeń i seminariów z parazytologii lekarskiej. Cz. 1 i 2. SAM, Katowice.</li> <li>3. Deryło A. [red.] 2011. Parazytologia i akaroentomologia medyczna. PWN, Warszawa.</li> <li>4. Dziubek Z. 2003. Choroby zakaźne i pasożytnicze. Wyd. lekarskie PZWL, Warszawa</li> <li>5. Garcia L.S. 2007. Diagnostic medical parasitology. ASP Press, Washington.</li> <li>6. Golvan Y.J. 2000. Atlas parazytologii. Volumed, Wrocław.</li> <li>7. Kadłubowski R. 1999. Zarys parazytologii lekarskiej. PZWL, Warszawa.</li> <li>8. Lonc E., Złotorzycka J. 1995. Ćwiczenia z parazytologii dla studentów biologii. UW, Wrocław</li> <li>9. Niewiadomska K., Pojmańska T., Machnicka B., Czubaj A. 2001. Zarys parazytologii ogólnej. PWN, Warszawa.</li> </ol> |                                                                                                                                           |

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|----------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                | Supplementary literature | <ol style="list-style-type: none"> <li>1. Błaszak C. [red.] 2009. Zoologia, t.1. Bezkręgowce. PWN, Warszawa.</li> <li>2. Błaszak C. [red.] 2011, 2012. Zoologia, t.2.cz. 1, 2. Stawonogi. PWN, Warszawa.</li> <li>3. Bogitsh B.J, Carter C.E., Oelmann T.N. 2005. Human parasitology. Academic Press, Saint Louis.</li> <li>4. Combes C. 1999. Ekologia i ewolucja pasożytnictwa. PWN, Warszawa.</li> <li>5. Izdebska J.N. 2005. Roztocze skórne człowieka i zwierząt domowych. (W:) Alergia na roztocze. B. Majkowska-Wojciechowska [red.], Mediton, Łódź: 95-105.</li> <li>6. Izdebska J.N. 2014. Wszy? Poznaj i pokonaj problem PWN, Warszawa.</li> <li>7. Piotrowski F. 1990. Zarys entomologii parazytologicznej. PWN, Warszawa.</li> <li>8. Pojmańska T. [red.] 2016. Leksykon parazytologiczny. PTP, Warszawa</li> <li>9. Rolbiecki L. 2002. Szybka metoda wykonywania semipermanentnych glicerożelatynowych preparatów z pasożytów. Wiadomości Parazytologiczne 48: 87-88.</li> <li>10. Rolbiecki L. 2007. Zastosowanie kwasu octowego i alkoholu benzyłowego w preparatyce parazytologicznej wady i zalety. Wiadomości Parazytologiczne 53: 347-349</li> </ol> |
|                                                                | eResources addresses     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Example issues/<br>example questions/<br>tasks being completed |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Work placement                                                 | Not applicable           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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