**SYLLABUS**

**regarding the qualification cycle FROM 2023 TO 2024**

1. Basic Course/Module Information

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| --- | --- |
| Course/Module title | Prenatal Diagnosis |
| Course/Module code \* |  |
| Faculty (name of the unit offering the field of study) | Medical College of Rzeszow University  Institute of Health Sciences |
| Name of the unit running the course | Institute of Medical Sciences |
| Field of study | obstetrics |
| Qualification level | undergraduate degree |
| Profile | PRACTICAL |
| Study mode | full-time |
| Year and semester of studies | 2023/2024 |
| Course type | LECTURES, LABORATORY |
| Language of instruction | ENGLISH |
| Coordinator | Raba Grzegorz, PhD |
| Course instructor | Raba Grzegorz, PhD |

\* - as agreed at the faculty

1.1.Learning format – number of hours and ECTS credits

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Semester  (n0.) | Lectures | Classes | Colloquia | Lab classes | Seminars | Practical classes | Internships | others | **ECTS credits** |
| I/II | 10 | - | - | - | - | - | - | 10 | 5 |

1.2. Course delivery methods

- conducted in a traditional way

- involving distance education methods and techniques

1.3. Course/Module assessment (exam, pass with a grade, pass without a grade)

Lecture: pass with a grade.

2. Prerequisites

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| knowledge of biology at the secondary school level |

3. Objectives, Learning Outcomes, Course Content, and Instructional Methods

3.1. Course/Module objectives

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| --- | --- |
| O1 | Students are expected to:   * to get general knowledge about trends in pre-birth diagnostics of genetic diseases. * to obtain knowledge of risk factor and screening tests of preterm delivery SDA and IUGR. |
| O2 | Students are expected to:   * to identify risk factors that could adversely affect preterm delivery SDA and IUGR * to explain principles of prenatal diseases |

3.2. Course/Module Learning Outcomes (to be completed by the coordinator)

|  |  |  |
| --- | --- | --- |
| Learning Outcome | The description of the learning outcome  defined for the course/module | Relation to the degree programme outcomes |
| LO\_01 | KNOWLEDGE ABOUT CLASSICAL, POPULATION AND MOLECULAR GENETICS. | B.W50. |
| LO\_02 | PRE-IMPLANTATION AND PRENATAL DIAGNOSTICS PROCEDURES. LABORATORY METHODS AND MARKERS USED FOR THE DIAGNOSIS OF CHROMOSOMAL ABERRATIONS IN DIAGNOSTICS OF DISEASES AND GENETIC SYNDROMES. | B.W51. |
| LO\_03 | METHODS OF TREATING THE FETUS IN DEVELOPMENTAL PATHOLOGIES. | B.W52. |
| LO\_04 | KNOWLEDGE OF RISK FACTORS AND SCREENING TESTS OF PRENATAL MOLECULAR DIAGNOSTICS OF DISEASES AND GENETIC SYNDROMES | B.U48. |
| LO\_05 | INTERPRETATION OF GENETIC TEST RESULTS | B.U49. |
| LO\_06 | EVALUATION OF THE DIAGNOSTIC VALUE AND USEFULNESS OF DIAGNOSTIC TESTS. | B.U50. |
| LO\_07 | PREPARING THE PATIENT FOR GENETIC TESTS AND SUPERVISING AFTER THE TEST. | B.U51. |

**3.3. Course content (to be completed by the coordinator)**

1. Lectures

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| Content outline:   1. Trends in pre-birth diagnostics of genetic diseases 2. Prenatal molecular diagnostics of diseases and genetic syndromes 3. Screening and diagnosis of threatening delivery premature sda, iugr |

3.4. Methods of Instruction

e.g.

*Lecture: a problem-solving lecture/a lecture supported by a multimedia presentation/ distance learning*

*Classes: text analysis and discussion/project work (research project, implementation project, practical project)/ group work (problem solving, case study, discussion)/didactic games/ distance learning*

*Laboratory classes: designing and conducting experiments*

Seminar with a multimedia presentation   
Classes: individual work, work with instruction, discussion

4. Assessment techniques and criteria

4.1 Methods of evaluating learning outcomes

|  |  |  |
| --- | --- | --- |
| Learning outcome | Methods of assessment of learning outcomes (e.g. test, oral exam, written exam, project, report, observation during classes) | Learning format (lectures, classes,…) |
| LO-01 – LO\_07 | TEST | Lectures |

4.2 Course assessment criteria

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| Passing the written tests (including 20 questions) – The grading scale F-A |

5. Total student workload needed to achieve the intended learning outcomes

– number of hours and ECTS credits

|  |  |
| --- | --- |
| Activity | Number of hours |
| Scheduled course contact hours | 10 |
| Other contact hours involving the teacher (consultation hours, examinations) | 10 |
| Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.) | 105 |
| Total number of hours | 125 |
| Total number of ECTS credits | 5 |

\* One ECTS point corresponds to 25-30 hours of total student workload

6. Internships related to the course/module

|  |  |
| --- | --- |
| Number of hours | *-* |
| Internship regulations and procedures | *-* |

7. Instructional materials

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| Compulsory literature:  Miriam s. Dimaio, joyce e. Fox, maurice j. Mahoney. *Prenatal diagnosis: cases and clinical challenges*, aug 2010, wiley-blackwell |
| Complementary literature:  Michael Entezami [i in.] ; with contributions by U. Knoll, L. Schmitz, R. D. Wegner ; red. nauk. wyd. pol. Romuald Dębski .*Diagnostyka ultrasonograficzna wad płodu.* - Warszawa : "MediPage", cop. 2008.  Norton M., Scoutt L., Feldstein V. Ultrasonografia w położnictwie i ginekologii. wyd. 6, tom 1. wyd. pol. romuald dębski, wrocław, 2018. |

Approved by the Head of the Department or an authorised person