

DESCRIPTION OF THE COURSE OF STUDY

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|------------------------------|--------------------------|---|
| Course code | 12.6-3LEK-F-ZPGLO | |
| Name of the course in | Polish | Znaczenie profili genetycznych w leczeniu onkologicznym |
| | English | The significance of genetic profiling in oncological treatment |

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

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| 1.1. Field of study | medicine |
| 1.2. Mode of study | full-time |
| 1.3. Level of study | uniform Master's study |
| 1.4. Profile of study* | practical |
| 1.5. Specialization* | lack |
| 1.6. Unit running the course of study | Faculty of Medicine and Health Sciences, Świętokrzyskie Cancer Center |
| 1.7. Person/s preparing the course description | dr n. med. Stanisław Gózdź |
| 1.8. Person responsible for the course of study | dr n. med. Stanisław Gózdź |
| 1.9. Contact | stanislawgo@onkol.kielce.pl |

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

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|---|--------------------------------|
| 2.1. Affiliation with the module | facultative |
| 2.2. Language of instruction | English |
| 2.3. Semesters in which the course of study is offered | Choice between 6-9th semesters |
| 2.4. Prerequisites* | Genetics |

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

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|--------------------------------|--|-------------------------|--|------------------------|--|
| 3.1. Form of classes | LECTURE : 15 , classes: 20 hours | | | | |
| 3.2. Place of classes | Lecture - Courses in the teaching rooms of UJK, Department of Molecular Diagnostics, Świętokrzyskie Cancer Center | | | | |
| 3.3. Form of assessment | LECTURE – Zo (credit with grade) | | | | |
| 3.4. Teaching methods | Conversational lecture | | | | |
| 3.5. Bibliography | <table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Required reading</td> <td> 1 Emery's Elements of Medical Genetics, 14th Edition With STUDENT CONSULT Online Access, Authors: Peter D. Turnpenny & Sian Ellard <u>UPCOMING EDITION – ISBN: 9780702066856</u>; 2. Medical genetics, Second Edition, Lynn B. Jorde, PH.D. Professor, John C. Carey, MD, Michael J. Bamshad, MD, Raymond L. White, PH.D. Distinguished Professor; 3. Weinberg R.A., The biology of cancer, Garland Science 2013. </td> </tr> <tr> <td>Further reading</td> <td>Clinical Oncology A Textbook For Students by Laura Hoch, 2016.</td> </tr> </table> | Required reading | 1 Emery's Elements of Medical Genetics, 14th Edition With STUDENT CONSULT Online Access, Authors: Peter D. Turnpenny & Sian Ellard <u>UPCOMING EDITION – ISBN: 9780702066856</u> ; 2. Medical genetics, Second Edition, Lynn B. Jorde, PH.D. Professor, John C. Carey, MD, Michael J. Bamshad, MD, Raymond L. White, PH.D. Distinguished Professor; 3. Weinberg R.A., The biology of cancer, Garland Science 2013. | Further reading | Clinical Oncology A Textbook For Students by Laura Hoch, 2016. |
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4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

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| <p>4.1. Course objectives (including form of classes)</p> <p>C1 absorbing information concerning the significance of cytogenetic and molecular diagnostics in oncology C2 acquiring the skills of proper interpretation of the results obtained</p> |
| <p>4.2. Detailed syllabus (including form of classes)</p> <p>Lectures</p> <ol style="list-style-type: none"> 1. The basics of molecular diagnostics 2 hour. 2. The basics of cytogenetics in the diagnostics of hematopoietic system cancers. 3 hours. 3. The basics of carcinogenesis. 2 hours 4. Solid tumours - selecting patients for targeted therapy (melanoma, colon cancer, breast cancer). 3 hours. 5. The significance of cytogenetic diagnostics in the prognosis of the course and effectiveness of treatment in proliferative diseases of the hematopoietic system. 2 hours. 6. Technology of the future - DNA microarrays, massive parallel sequencing. 2 hours. 7. Credits - 1 hour. |

4.3 Education outcomes in the discipline

| Code | A student, who passed the course | Relation to teaching outcomes |
|---------------------------------------|---|-------------------------------|
| within the scope of KNOWLEDGE: | | |
| W01 | knows the basic trends of therapy development, in particular the possibility of applying cell therapy, gene therapy as well as targeted therapy in specific diseases; | C.W41. |
| W02 | knows the basis of early detection of cancer and principles of screening in oncology; | E.W24. |
| W03 | knows the possibilities of modern cancer therapy (including multimodal therapy), the prospects for cell and gene therapies and their adverse effects; | E.W25. |
| W04 | knows the types of biological materials used in laboratory diagnosis and the rules for the collection of research material; | E.W37. |
| W05 | knows theoretical and practical foundations for laboratory diagnostics; | E.W38. |
| within the scope of ABILITIES: | | |
| U01 | makes a decision on the need to perform cytogenetic and molecular tests; | C.U3. |

4.4. Methods of assessment of the intended teaching outcomes

| Teaching outcomes (code) | Method of assessment (+/-) | | | | | | | | | | | | | | | | | | | | |
|--------------------------|----------------------------|---|-----|-----------------|---|-----|-----------------|---|-----|------------------|---|-----|-----------------|---|-----|-----------------|---|-----|---------|---|-----|
| | Exam oral/written* | | | Test* | | | Project* | | | Effort in class* | | | Self-study* | | | Group work* | | | Others* | | |
| | Form of classes | | | Form of classes | | | Form of classes | | | Form of classes | | | Form of classes | | | Form of classes | | | | | |
| | L | C | ... | L | C | ... | L | C | ... | L | C | ... | L | C | ... | L | C | ... | L | C | ... |
| W01 | | | | | | | | | | | | | | | | | | | | | |
| W02 | | | | | | | | | | | | | | | | | | | | | |
| W03 | | | | | | | | | | | | | | | | | | | | | |
| W04 | | | | | | | | | | | | | | | | | | | | | |
| W05 | | | | | | | | | | | | | | | | | | | | | |
| U01 | | | | | | | | | | | | | | | | | | | | | |

*delete as appropriate

4.5. Criteria of assessment of the intended teaching outcomes

| Form of classes | Grade | Criterion of assessment |
|-----------------|-------|-------------------------|
| lecture (L) | 3 | 61%-68% |
| | 3,5 | 69%-76% |
| | 4 | 77%-84% |
| | 4,5 | 85%-92% |
| | 5 | 93%-100% |
| classes (C)* | 3 | 61%-68% |
| | 3,5 | 69%-76% |
| | 4 | 77%-84% |
| | 4,5 | 85%-92% |
| | 5 | 93%-100% |

- Thresholds are valid from 2018/ 2019 academic year

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

| Category | Student's workload |
|---|--------------------|
| | Full-time studies |
| <i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i> | 35 |
| <i>Participation in lectures*</i> | 15 |
| <i>Participation in classes, seminars, laboratories*</i> | 20 |
| <i>Preparation in the exam/ final test*</i> | |
| <i>Others*</i> | |
| <i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i> | 15 |
| <i>Preparation for the lecture*</i> | |
| <i>Preparation for the classes, seminars, laboratories*</i> | |
| <i>Preparation for the exam/test*</i> | |
| <i>Gathering materials for the project/Internet query*</i> | |
| <i>Preparation of multimedia presentation</i> | |
| <i>Others*</i> | |
| TOTAL NUMBER OF HOURS | 50 |
| ECTS credits for the course of study | 2 |

Accepted for execution (date and signatures of the teachers running the course in the given academic year)

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