UNIWERSYTET MEDYCZNY
IM. PIASTÓW ŚLĄSKICH WE WROCŁAWIU

Appendix 5
to Resolution No. 15630
of Senate of Wroclaw Medical University
of 30 March 2016

Syllabus 2020/2021

Description of the course

Module/Course:	Patomechanisms of cancer diseases	Group of detailed education results	
		Group code B code C	Group name Scientific basis of medicine Preclinical sciences
Faculty	Medicine		
Major	medicine		
Specialties	Not applicable		
Level of studies	Uniform magister studies X * 1st degree studies ☐ 2nd degree studies ☐ 3rd degree studies ☐ postgraduate studies ☐		
Form of studies	X full-time ☐ part-time		
Year of studies	III	Semester	X Winter ☐ Summer
Type of course	X obligatory ☐ limited choice ☐ free choice / elective		
Course	X major ☐ basic		
Language of instruction	☐ Polish X English ☐ other		

* mark ☐ with an X

Number of hours

Form of education

Unit teaching the course	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Winter Semester														
Department of Cancer Prevention and Therapy		10												
Summer Semester														
TOTAL per year:														

Department of Cancer Prevention and Therapy		10												

Educational objectives (max. 6 items)

C1. The basic knowledge of neoplastic pathology with selected elements of cytogenetic and molecular mechanisms

C2. The basic knowledge of cancer immunology

C3. Elementary information on cellular results of chemotherapy and radiotherapy

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class ***enter the abbreviation*
K 01	B.W17	A student knows the definition of genes expression in cancer pathology, defines intra- and extracellular conditions of cancerogenesis, describes the most significant cellular signal paths and metabolic differences of cancer cells. A students can defines the most important techniques in molecular and cytogenetic cancer diagnostics.	Presentation, oral response	SE, EL
S 01	C.U3.	A student is able to make reasonable decisions on cytogenetic and molecular diagnostic, particularly in cancer conditions	Oral response	SE, EL

** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge: 5

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	10
2. Student's own work (self-study):	3
Total student's workload	13
ECTS points for module/course	0.5
Comments	

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Seminars

1. Cancer molecular basics, intracellular signal paths. Specifities of cancer cells metabolism, the significance of immunological surveillance in cancerogenesis; molecular differences of leukemias and lymphomas

2.Basic molecular and cytogenetic techniques in cancer diagnostics

Basic literature (list according to importance, no more than 3 items)

1.Christoph Wagener et al. Cancer Signaling, Enhanced Edition: From Molecular Biology to Targeted

Therapy. 2016
2.Rita Fior et al. Molecular and Cell Biology of Cancer. 2019

Didactic resources requirements (e.g. laboratory, multimedia projector, other...) Multimedia projector, laptop, internet communication platforms

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)
Elementary knowledge of cells biology: DNA replication and repair, transcription, point mutations

Conditions to receive credit for the course (specify the form, criteria and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be med by the student to pass it and criteria for specific grades).
Each absence must be made up, including rector's days or dean's hours. The absence must be made up by attending to the same course with another group (if allowed) or, if impossible, by oral response (after making an appointment)
Presence in all classes and oral responses are to be met together to receive credit for the course.

Grade:	Criteria for course
Very Good (5.0)	achieving targeted education in all aspects, exceeding the topic coverage delivered by primary seminars; ability to fluently and creatively apply the acquired knowledge to explain complicated problems
Good Plus (4.5)	achieving targeted education in all important aspects, within the topic coverage delivered by primary seminars; ability to apply the acquired knowledge to explain complicated problems
Good (4.0)	achieving targeted education in all important aspects, within the topic coverage delivered by primary seminars; ability to apply the acquired knowledge to explain typical problems
Satisfactory Plus (3.5)	achieving targeted education in most important aspects, within the topic coverage delivered by primary seminars; ability to apply the core elements of acquired knowledge to explain typical problems
Satisfactory (3.0)	achieving targeted education in all basic aspects, with omission of important but not critical part of topics; ability to apply basic elements of acquired knowledge to explain simple problems

Name of unit teaching course:	**Department of Cancer Prevention and Therapy**
Address	**50-556 Wrocław, ul. Borowska 213**
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Person responsible for course:	**Aleksandra Butrym, MD, PhD, Assist. Prof.**
Phone	**71 736 40 00**
E-mail	**aleksandra.butrym@umed.wroc.pl**

List of persons conducting specific classes:	*degree/scientific or professional title*	*Discipline*	*Performer profession*	*Form of classes*
Aleksandra Butrym	MD, PhD, assist. Prof.	hematooncology	MD, academic	SE
Jarosław Dybko	MD, PhD	hematooncology	MD, academic	SE

Date of Syllabus development

28.05.20v

Syllabus developed by

Uniwersytet Medyczny we Wrocławiu
ZAKŁAD PROFILAKTYKI I LECZENIA CHORÓB NOWOTWOROWYCH
adiunkt dydaktyczny
dr n. med. Jarosław Dybko

Signature of Head of teaching unit

Uniwersytet Medyczny we Wrocławiu
ZAKŁAD PROFILAKTYKI I LECZENIA CHORÓB NOWOTWOROWYCH
Kierownik
dr hab. Aleksandra Butrym, prof. nadzw.

Signature of Faculty Dean

Wroclaw Medical University
Faculty of Medicine
Vice-Dean for English Studies
prof. Beata Sobieszczańska, PhD