



Syllabus 2018/2019

Description of the course

Uniwersytet Medyczny we Wrocławiu
Wydział Nauk o Zdrowiu
Katedra Zdrowia Publicznego
ZAKŁAD GERONTOLOGII
ul. Bartla 5, 51-618 Wrocław
tel. 71 784 18 33, faks: 71 347 90 29
(2)

Module/Course	Forensic Applications of Modern Medical Diagnostic Techniques (Sądowo-lekarskie zastosowania nowoczesnych medycznych technik diagnostycznych)		Group of detailed education results
Faculty	Medicine		Group code E+G
Major	medicine		Group name Legal and organizational aspects of medicine
Specialties	Not applicable		
Level of studies	Uniform magister studies X * 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>		
Form of studies	X full-time X part-time		
Year of studies	I-V	Semester	X Winter AND X Summer
Type of course	<input type="checkbox"/> obligatory <input type="checkbox"/> limited choice X free choice / elective		
Course	<input type="checkbox"/> major X basic		
Language of instruction	<input type="checkbox"/> Polish X English <input type="checkbox"/> 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														
Gerontology Unit, Public Health Department, Health Sciences Faculty				10										
Summer Semester														
Gerontology Unit, Public Health Department, Health Sciences Faculty				20										

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Sciences Faculty												
TOTAL per year:												
Gerontology Unit, Public Health Department, Health Sciences Faculty		30										
<p>Educational objectives (max. 6 items)</p> <p>C1. Making clear to students the fast pace of progress in the field of modern medical diagnostic techniques and the evolution of their applications.</p> <p>C2. Making the students familiar with chosen modern medical diagnostic techniques and their medical and peri-medical applications in order to point at the practical usefulness of basic medical disciplines that are the basis for proper interpretation of the results.</p> <p>C3. Making the students aware of the modern medical diagnostic techniques results suggesting that the patient may be a violence victim.</p> <p>C4. Making the students notice that medical documents, including the results of modern medical diagnostic techniques, are precious sources of data which can be used not only in everyday clinical practice but also as basis of identification or as a source of evidence during legal proceedings.</p>												
<p>Education result matrix for module/course in relation to verification methods of the intended education result and the type of class</p>												
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 <i>**enter the abbreviation</i>							
K01	A.W2	knows the human body structure in the topographic approach		presentation, oral answer or essay	MC							
K02	A.W3	defines topographical connections between different organs		presentation, oral answer or essay	MC							
K03	B.W8	knows the physical basis of noninvasive diagnostic methods		presentation, oral answer or essay	MC							
K04	E.W4	knows the problems of battered child and sexual abuse		presentation, oral answer or essay	MC							
K05	G.W15	knows the legal basis and rules of forensic corpse evaluations		presentation, oral answer or essay	MC							
K06	G.W16	knows the basics of forensic diagnostics and opinion forming in cases of infanticide and traffic accidents reconstruction		presentation, oral answer or essay	MC							
S01	A.U4	can identify interrelations between anatomical structures on the basis of results of diagnostic techniques applied ante-mortem, especially in the field of radiology (X-rays, contrast X-rays, computed tomography and nuclear magnetic resonance)		presentation, oral answer or essay	MC							
S02	B.U2	can weigh the radiation dose risk and uses the radiology prevention rules		presentation, oral answer or essay	MC							
S03	E.U14	identifies the situations of acute life hazard		presentation, oral answer or essay	MC							
S04	E.U16	schedules diagnostic, therapeutic and preventive measures		presentation, oral	MC							



			answer or essay	
S05	F.U7	interprets X-ray results in order to diagnose the most common fracture types, especially in the long bones	presentation, oral answer or essay	MC
<p>** 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.</p>				
<p>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 Skills: 3</p>				
Student's amount of work (balance of ECTS points)				
Student's workload (class participation, activity, preparation, etc.)			Student Workload (h)	
1. Contact hours:			30	
2. Student's own work (self-study):			9	
Total student's workload			39	
ECTS points for module/course			1,5	
Comments			the classes are divided between two consecutive semesters (winter and summer semester)	
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)				
Lectures -				
Seminars -				
<p>Practical classes</p> <ol style="list-style-type: none"> History outline and review of modern medical diagnostic techniques use for the purposes of legal sciences. Scientific basis of chosen modern diagnostic techniques used in medicine. Identification of humans and remains using chosen modern medical diagnostic techniques. The usefulness of modern medical diagnostic techniques in case of gunshot victims. The role of modern medical diagnostic techniques in diagnosing and documenting cases of abuse. Interpretation of modern medical diagnostic techniques results in special cases, including: self-abuse, torture, terrorist acts, and traffic accidents. Control of people using chosen modern diagnostic techniques and their use in neighboring application fields. Virtopsy. Presentation of works prepared by students, final remarks, credit granting. 				
Other -				
<p>Basic literature (list according to importance, no more than 3 items)</p> <ol style="list-style-type: none"> Thali M., Viner M., Brogdon B., Brogdon's Forensic Radiology, CRC Press, 2011. Brogdon B., Vogel H, McDowell J., Radiologic Atlas of Abuse, Torture and Inflicted Trauma, CRC Press, 2003. 				



3. Thali M., Dirhofer R., Vock P., Virtopsy Approach - 3D Optical and Radiological Scanning and Reconstruction in Forensic Medicine, CRC Press, 2009.

Additional literature and other materials (no more than 3 items)

1. Rich J., Dean D., Powers R., Forensic Medicine of the Lower Extremity - Human Identification and Trauma Analysis of the Thigh, Leg and Foot, Humana Press, 2005.

2. Teresiński G., Biomechanika potrącenia pieszego, Wydawnictwo Akademii Medycznej w Lublinie, 2005.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

room equipped with computer, multimedia projector

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

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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 met by the student to pass it and criteria for specific grades).

Presence in classes; presentation during class, preparing an essay on assigned topic or oral or written answer during class.

Each absence must be made up, including rector's days or dean's hours; the classes are divided into two consecutive semesters (winter and summer semester).

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



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Person responsible for course:	Robert Suslo, MD PhD
Phone	+48 71 347 90 29
E-mail	robert.suslo@umed.wroc.pl

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Robert Suslo	MD PhD	medicine	physician	MC

Date of Syllabus development

14.07.2018

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Signature of Head of teaching unit

Jarosław Drobniak, MD PhD

Signature of Faculty Dean

Wrocław Medical University
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