SYLLABUS
The academic year when the cycle of instruction is commenced 2019-2025 [INT]

Module/course name:	**Clinical anatomy with radiology and surgery**	**Module code**	LK.3.E.003
Faculty:	Faculty of Medicine MUL		
Major:	Medical		
Specialty:			
Level of study:	I (Bachelor studies) ☐ II (Master studies) ☐ Integrated Master studies **X** Doctoral studies ☐		
Mode of study:	full-time **X**		
Year of study:	I ☐ II **X** III ☐ IV ☐ V ☐ VI ☐	Semester:	1☐ 2 ☐ 3**X** 4 ☐ 5☐ 6☐ 7 ☐ 8 ☐ 9☐ 10 ☐ 11 ☐ 12 ☐
Module/course type:	obligatory **X** elective ☐		
Language of instruction:	Polish ☐ English **X**		

Form of education	**Hours**
Lecture	
Seminar	**2**
Laboratory class	**18**
E-learning	
Practical class	
Internship	
Other	
TOTAL	**20**
Student's work input (participation in class, preparation, evaluation, etc.)	**Student's hourly workload**
1. In class	**20**
2. Student's own work including: 1 Preparation for class 2 Preparation for partials and finals	**30**
Summary of the student's workload	**50**
ECTS points for module/course	**2**

Educational objectives:
The course provides the students with basic knowledge of radiological anatomy, reasoning for application of modalities depending on the clinical setting, basic ultrasound manual skills, as well as utilization of CT/MRI workstation.

The matrix of learning outcomes for module/ subject with reference to verification methods of the intended

educational outcomes and forms of instruction:

Learning outcome code	A student who has obtained a credit for the module/course has the knowledge/skill to:	Methods of verifying the achievement of the intended learning outcomes:	Form of instruction * provide the symbol
A.U3.	explains anatomical basis of physical examination;	Practical exam written exams. short structured questions and tests: multiple choice (MCQ -Multiple Choice Questions)	Lab
A.U4.	draws conclusions on relationships between anatomical structures, on the basis of intravital diagnostic tests, and in particular, in the field of radiology (plain x-ray, introduction of contrast medium, computed tomography and magnetic resonance imaging);	Practical exam written exams. short structured questions and tests: multiple choice (MCQ -Multiple Choice Questions)	Lab

EXAMPLES OF METHODS VERIFYING THE ACHIEVEMENT OF THE INTENDED LEARNING OUTCOMES:

In terms of knowledge: Oral exam (*non-standardized, standardized, traditional, problem-based*).
Written exam – the student produces/identifies answers)*essay, report; structured short-answer questions /SSQ/; multiple choice questions /MCQ/; multiple response questions /MRQ/; matching test; true/false test; open cloze test*)
In terms of skills: practical exam; Objective Structured Clinical Examination /OSCE/; Mini-CEX (mini – clinical examination); completion of a given assignment; project, presentation.

In terms of social competences:
A reflective essay; an extended observation by a supervisor/tutor; 360-degree assessment (feedback from teachers, peers, patients, other co-workers); self-assessment (portfolio included).

Course content: (use keywords referring to the content of each class following the intended learning outcomes):

Seminar:

1. Seminar: the anatomical basis of the radiological examinations. Anatomical planes and directions.

Laboratory class (135 minutes):

1. Module A: surgical anatomy of the liver and bile system. Cholelithiasis. Laparoscopic cholecystectomy.
2. Module B: surgical anatomy of the antero-lateral abdominal wall. Inguinal canal and inguinal hernias.
3. Module C: surgical anatomy of the stomach, small and large intestine. Sleeve gastrectomy and sigmoidectomy.
4. Module U1: ultrasound anatomy of the abdominal cavity.
5. Module U2: ultrasound anatomy of the pelvic cavity. Introduction to FAST protocol.
6. Module CT: anatomy of the head, thorax, abdomen, and pelvis in the CT examination.

Obligatory literature:

1. Script: Ultrasound Anatomy of the Abdominal and Pelvic Cavity. Introduction to FAST exam. Author:Anna Torres, Prof.M.D., Ph.D. posted at www.imul.umlub.edu.pl

2. www.atlas.anatomia.umlub.pl

Complementary literature:

1. UpToDate database
2. http://www.uptodate.com/contents/surgical-female-pelvic-anatomy?source=see_link
3. http://www.uptodate.com/contents/surgical-female-urogenital-anatomy?source=search_result&search=ureter&selectedTitle=3%7E150
4. http://www.uptodate.com/contents/overview-of-colon-resection?source=search_result&search=sigmoidectomy&selectedTitle=1%7E4
5. http://www.uptodate.com/contents/laparoscopic-hysterectomy?source=search_result&search=hysterectomy&selectedTitle=2%7E150
6. http://www.uptodate.com/contents/urinary-tract-injury-in-gynecologic-surgery-prevention?source=search_result&search=ureter&selectedTitle=1%7E150
7. http://www.uptodate.com/contents/acute-colonic-diverticulitis-surgical-management?source=search_result&search=sigmoidectomy&selectedTitle=2%7E4
8. http://www.uptodate.com/contents/acute-colonic-diverticulitis-surgical-management?source=search_result&search=sigmoidectomy&selectedTitle=2%7E4

Requirements for didactic aids (multimedia projector, movie camera, etc.)

multimedia projector, computer, ultrasound machine, computers with CT examination console, simulation room, laparoscopic simulation task-trainers

Conditions for obtaining a credit for the subject: I. ATTENDANCE AND BEHAVIOR POLICY

1. Students must attend all sessions.

2. Students should come to lab sessions prepared and on time. Students will participate in labs and lectures in an active way. Students late more than 15 minutes for the class are not allowed to enter the classroom.

3. Exceptionally students are allowed to miss one lab session but the absenteeism has to be justified by the medical excuse note or an explanation note certified by the Office of the Dean.

4. If the student is absent due to hospital admission his/her absenteeism has to be reported to the course coordinator within 5 working days and proven with the hospital excuse note.

5. All excuse notes must be submitted within 3 working days following the absence or in an electronic way to the email: student@imul.pl

6. Failure to obey attendance policy may result in the student not being allowed to pass the course.

7. Students must participate in lab sessions according to the schedule; any changes have to be discussed with the course coordinator.

8. Students are obliged to be prepared for the classes and actively participate in the discussion.

9. During final exam answers to test questions must be written with pens (not pencils).

Correct answers must be marked in the answer sheet according to the instructions given by the teaching staff. Answer sheets filled out in the different way will not be taken into consideration and will not be checked.

10. Cheating on exam will result in fail mark and referral to faculty and administration officials.

11. Students must wear scrubs and appropriate footwear during every lab session and every time they enter the Centre of Medical Simulation. Students who are not fulfilling these requirements are not allowed to participate in the lab sessions.

12. Coats and regular shoes must be left in the cloakroom.
13. Eating and drinking are not permitted in the Centre of Medical Simulation.

14. Professional Behavior. Students joining medical school are expected to abide by the norms of professional behavior, which is characterized by following attributes:

•honesty, punctuality and appropriate clothing
•acknowledging sources of information, avoiding pirating and plagiarism
•respecting other people's individuality, rights and property
•responsibility for own deeds and academic commitments
•ability to communicate clearly and provide full information when asked to do so during lab sessions and tests

15. Sending offensive e-mail messages is strongly prohibited.
16. Any information put in cyberspace should come from legal and verified sources. 17.One should not offended, harried or use kind of hate speech towards cyberspace users. 18.All attempts of hacking, infecting viruses, scamming, phishing are prohibited.

II. REQUIREMENTS FOR PASSING THE COURSE

In order to complete and pass the course students must

1. Obey attendance and behavior policy
2. Actively participate in the class
3. Pass the final examination (passing score is 60%)

The final exam consists 40 questions: 20 from surgical part and 20 from radiological part of the course. The 20 questions of the radiological part are practical questions where students have to recognize anatomical structures based on radiological pictures discussed during the lab.

To pass final test students have to answer at least 60% of questions correctly.

Final test's grading scale: Less than 60 % 2,0 (fail)

60 – 70 % 3,0 (pass)

71 – 79 % 3,5 (satisfactory) 80 – 84 % 4,0 (good)

85 – 89 % 4,5 (better than good) 90 – 100 % 5,0 (very good)

All the suggestions, comments and requests MUST be addressed to the course coordinator at student.csm@imul.umlub.edu.pl with 'Clinical Anatomy' in the title. No other form of communication has legal value.

The name and address of the department/clinic where the course is taught (module/course); contact details (phone number/ email address):

Department of Didactics and Medical Simulation, Medical University of Lublin, phone: 81 448 59 30, www. imul.pl, e-mail: student.csm@imul.umlub.edu.pl

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KIEROWNIK
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Dean's signature

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Date of submission: