

SYLLABUS

The academic year when the cycle of instruction is commenced 2019-2025

Module/course name:	PROPEDEUTICS OF SURGERY	Module code	LK.3.F.002
Faculty:	Faculty of Medicine MUL		
Major:	Medical		
Specialty:			
Level of study:	I (Bachelor studies) <input type="checkbox"/> II (Master studies) <input type="checkbox"/> Integrated Master studies X Doctoral studies <input type="checkbox"/>		
Mode of study:	full-time X		
Year of study:	I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV X V <input checked="" type="checkbox"/> VI <input type="checkbox"/>	Semester:	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input checked="" type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/>
Module/course type:	obligatory X elective <input type="checkbox"/>		
Language of instruction:	Polish <input type="checkbox"/> English X		
Form of education	Hours		
Lecture	10		
Seminar	12		
Laboratory class	38		
E-learning			
Practical class			
Internship			
Other			
TOTAL			
Student's work input (participation in class, preparation, evaluation, etc.)	Student's hourly workload		
1. In class	60		
2. Student's own work including:	30		
1 Preparation for class	30		
2 Preparation for partials and finals			
Summary of the student's workload	120		
ECTS points for module/course	4		

Educational objectives: Propedeutics of Surgery course provides the students with basic knowledge of surgical management. Students are familiarized with different aspects of the pre-operative and post-operative management of surgical patient. Students are learnt how to assess patients in the outpatient and in-hospital setting. The course is conducted in the setting of operating theatre, endoscopy unit, clinical ward, dressing room, ultrasound room and outpatient clinic. Students have also access to laboratories with phantoms and trainers for practicing basic surgical skill such as suturing, NG tube insertion or urinary bladder catheterization.

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
W1 (D.W.20)	Knows history of medicine, medicine of early man and most ancient civilization and specifics of medieval medicine	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W2 (D.W.21)	Knows features of modern medicine and its most important discoveries	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W3 (B.W.28)	Knows applications of the contemporary telemedicine as tools supporting medical practice	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, LC
W4 (B.W.29)	Knows principles of conducting observational, interventional and in vitro research affecting the development in medicine	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, LC
W5 (D.W.23)	Knows basics of evidence-based medicine	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W6 (D.W.16)	Knows main ethical terms, theories and rules serving as a general outline of a proper interpretation and analysis of moral-medical issues	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W7 (D.W.17)	Knows the patient rights	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W8 (C.W.18)	Knows clinical manifestation of iatrogenic infections, their ways of spreading and pathogens responsible for injuries in specific organs	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC

W9 (C.W.19)	Knows basics of the microbiological and parasitological diagnostic testing	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W10 (C.W.20)	Knows basics of disinfection, sterilization and aseptic management	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W11 (E.W.7i)	Knows causes, clinical manifestation, principles of diagnostic and therapeutic management in reference to the most common internal disorders in adults and their complications: water-electrolyte and acid-base disorders, dehydration, overhydration, electrolyte imbalance, acidosis, alkalosis	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W12 (F.W.1)	Knows and understands causes, manifestations, principles of diagnostic and therapeutic management in most frequent illness requiring surgical intervention	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W13 (F.W.3)	Knows principles of the qualification to and performing basic surgical procedures and invasive diagnostic procedures and the most frequent complications	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W14 (F.W.4)	Knows perioperative safety standards, principles of preparation of patient to surgery, performing general and local anesthesia and controlled sedation	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W15 (F.W.5)	Knows procedures of postoperative pain management and postoperative monitoring	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
W16 (F.W.10.2)	Knows principles and value of currently used imaging diagnostic techniques in particular image-guided interventional procedures	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, S, LC
U1 (B.U.12)	Can explain differences between prospective, retrospective, randomized, clinical-controlled studies, case series and basic research and can arrange them according their reliability and scientific evidence	Problem-based oral assessment in the end of each laboratory class and written exam with MCQ in the end of the course	L, LC
U2 (C.U.10)	Can interpret results of microbiological tests	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC

U3 (C.U.15)	Can design regimens of rational antibiotic therapy: empirical and targeted	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC
U4 (F.U.1)	Can assist to general surgical procedure, prepare operating field and apply local anesthesia to the operated area	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC
U5 (F.U.2)	Can use basic surgical instruments	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC
U6 (F.U.3)	Can apply principles of aseptic and antiseptic management	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC
U7 (F.U.4)	Can manage a simple wound, apply and change a sterile surgical dressing	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC
U8 (F.U.6)	Can examine breast, thyroid gland, lymph nodes, abdominal cavity is the aspect of "acute abdomen, can perform rectal digital examination	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC
U9 (F.U.9)	Can manage an external bleeding	Mini-CEX practical exam; completion of a given assignment; project, presentation.	LC
U10 (F.U.12)	Can conduct postoperative monitoring of patient condition using basic vital signs	Mini-CEX practical exam; completion of a given assignment; project, presentation.	L, LC
U11 (E.U.29g)	Can perform basic medical procedures including catheterization of the urinary bladder in male and female patients, insertion of nasogastric tube, gastric lavage, enema	Mini-CEX practical exam; completion of a given assignment; project, presentation.	S, LC
U12 (E.U.30a,b,d,f)	Can assist to and interpret the following medical procedures: transfusion of blood and blood components, drainage of the pleural cavity, paracentesis, fine-aspiration needle biopsy	Mini-CEX practical exam; completion of a given assignment; project, presentation.	S, LC
U13 (E.U.25)	Can apply nutritional therapy including enteral and parenteral nutrition	Mini-CEX practical exam; completion of a given assignment; project, presentation.	L, S, LC
K1	Prepares himself/herself for classes	An extended observation by a supervisor/tutor; 360-degree assessment	LC, S
K2	Participates actively in lab classes and seminars, participates in discussion on given topics	An extended observation by a supervisor/tutor; 360-degree assessment	LC, S
K3	Possesses the ability of analytic and synthetic thinking on the basis of acquired knowledge, thinks creatively	An extended observation by a supervisor/tutor; 360-degree assessment	LC, S

K4	Can collaborate and work in a group assuming different roles	An extended observation by a supervisor/tutor; 360-degree assessment	LC
K5	Shows respect towards patient, his/her family, other students and faculty members	An extended observation by a supervisor/tutor; 360-degree assessment	LC

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):

Lectures:

1. The Rise of Modern Surgery. Evidence-Based Surgery.
2. Aseptic Management, Operating Theatre.
3. Wound Healing and Principles of Suturing. Surgical Bleeding Control and Principles of Electrosurgery.
4. Principles of Preoperative Management, Postoperative Complications and Perioperative Risk Assessment.
5. Emerging Technology in Surgery: Minimally Invasive Surgery, Informatics, Robotics, Electronics.

Seminars:

1. Ethics and Professionalism in Surgery. Safety in the Surgical Environment.
2. Metabolism in Surgical Patient. Nutritional Support. Enhanced Recovery after Surgery – ERAS Protocols.
3. Surgical Symptomatology: Visceral and Somatic Pain, Bleeding, Vomiting, Fever, Gastric Paresis, Ileus and Intestinal Obstruction.
4. Surgical Terminology: Surgical Access, Surgical Procedures, Surgical Reconstruction.
5. Surgical Infections. Antibiotic Prophylaxis and Therapy.
6. Bed Side Surgical Procedures. Outpatient Surgery.

Laboratory class:

1. Aseptic Management, Perioperative Antibiotic Prophylaxis, Operating Theatre, Surgical Instrumentation, Scrubbing and Surgery Assistance, Operating Field.
2. Wound Healing, Surgical Management of Postoperative Wound, Complications of Wound Healing, Drain Management, Surgical Dressing, Negative Pressure Therapy.
3. Principles of Suturing, Suturing Materials, Suturing, Knot Tying and Suture Removal.
4. Small Surgical Procedures: Urinary Catheterization, Nasogastric Intubation, Abscess Incision, Paracentesis, Thoracentesis, Chest Tube Insertion, Ultrasound Guided Fine Needle Aspiration Biopsy.
5. Assessment of Nutritional Status, Parenteral Nutrition, Enteral Nutrition, Feeding Surgical Access, Gastrostomy, PEG, Jejunostomy.
6. Perioperative Complications: Medical and Surgical Complications, Surgical Site Infection, Postoperative Bleeding, Anastomotic Leakage, Deep Vein Thrombosis and Pulmonary Embolism, Perioperative Risk Assessment.
7. Electrosurgery: Basic Electrosurgical Devices, Electrosurgical Cutting and Coagulation, Monopolar and Bipolar Coagulation, Advanced Energy Devices, Electrosurgical Safety Issues.
8. Surgical Synthesis and Anastomosis, Staplers, Stents and Prosthetic Devices.

Obligatory literature:

Sabiston Textbook of Surgery. 20th Edition, Elsevier

Complementary literature:

Schwartz's Principles of Surgery, 10th edition. McGraw-Hill Professional

Requirements for didactic aids (e.g. laboratory, multimedia projector, others...)

multimedia projector,
tv monitors with multimedia connection,
phantoms and training kits

Conditions for obtaining a credit for the subject:

Methods of evaluation: The overall course grade will be determined by student's attitude with attendance to labs, lectures and seminars, in-class activity as well as by the results of final exam, which verifies if the student acquired the knowledge as stated in the syllabus. A passing score confirms the satisfactory fulfilment of course requirements.

Final quiz: Final exam will be conducted in the end of the last lab. It will be composed of 15 MCQ. To pass a student must complete 10 positive (correct) answers. If illness or emergencies prevent a student from meeting deadlines, the coordinator must be notified before the exam date. A different exam (format and/or questions) may be substituted for exam missed for any reason, potentially including an essay-based exam. The use of electronic devices with electronic data bases is not permitted during exam unless specified by course coordinator. Questions for the exam will be drawn from lectures, lab activities and recommended textbooks.

Attendance: Students are allowed to have only one unexcused absence. All learning activities (Lab classes, seminars and lectures) are mandatory. Excused absence must be confirmed in written by appropriate health care provider (in case of illness) or by the Dean's Office representative (in other reasonable circumstances). In the case of absences with excuse the content of classes the student missed shall be made up according to the schedule given by the instructor.

Tardiness: Students are expected to arrive at class on time. Students that arrive 30 minutes after class begins will not be permitted to complete the class. 3 tardiness will be considered 1 complete absence.

Uniforms: Students are expected to attend class in white lab coat and lab shoes for change (otherwise student won't be able to participate in the lab). Students are not permitted to wear heavy outside coats or jackets to any lab (They should be deposited to the hospital cloak room for students). Students are not allowed to wear hats or offending cloth (eg. short pants) and eat or drink during clinical labs (except for breaks in designated areas). Students should be respectful to patients, teaching faculty, other medical staff and to each other. Using mobile phones during the labs is forbidden.

Missed exams/Assignments/Make-up policy: The student may be allowed to make-up an examination under the following circumstances: absence due to serious illness/hospitalization of the student or an immediate family member documented by a health care provider; absence due to family emergency or university related activity confirmed by the Dean in written. To be eligible for a make-up exam under the above circumstances, the student must notify the course coordinator prior to the absence and must make arrangements within 3 days after the absence. Faculty has the right to offer an alternative form of the exam.

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

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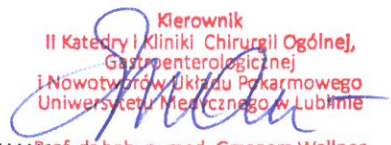
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Signature of the head of the department/clinic

Dean's signature


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Date of submission: