SYLLABUS APPLICABLE TO THE EDUCATION CYCLE 2021-2027

Academic year: 2026/2027

1. BASIC INFORMATION ABOUT THE SUBJECT/MODULE

Subject/Module Name:	Surgery
Subject/Module Code: *	Ch/F
Name of the Unit Conducting the	Faculty of Medicine, University of Rzeszow
Course:	
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Name of the Unit Implementing the	Department of Surgery, Institute of Medical Sciences
Subject:	
Field of Study:	Medicine
Level of Education:	Uniform Master's Studies
Profile:	General Academic
Form of Studies:	Stationary / non-stationary
Year and Semester of Study:	Year VI, semesters 11, 12
Type of Subject:	Mandatory
Language of instruction	English
Coordinator:	Artur Iwasieczko, MD
Name and surname of the person	Assoc. Prof. Andrzej Komorowski, MD, PhD
conducting / persons conducting	Artur Iwasieczko, MD

 $[\]boldsymbol{\ast}$ optionally, in accordance with the arrangements in the Unit

1.1. Forms of Teaching, Hours, and ECTS Points

Semester (no.)	Lectures	Classes	Conversations	Laboratory	Seminars	Practical	Self- Learning	ECTS Points
11	-	50	-	-	10	-	-	4
12	-	50	-	-	10	-	-	4

1.2. Mode of Teaching

☑ Traditional classes

☐ Classes conducted using distance learning methods and techniques

1.3. Form of course/module completion (from the curriculum) (exam, graded credit, pass/fail credit); Exam

2. PREREQUISITES

Knowledge of the basics of surgery, including: wound management techniques and basic surgical procedures, surgical anatomy, pathophysiology, histopathology, infection treatment, and imaging diagnostics.

3. OBJECTIVES, LEARNING OUTCOMES, PROGRAM CONTENT, AND TEACHING METHODS

3.1. Course Objectives

C1	Mastery of the theoretical foundations regarding the etiology, symptomatology,
	diagnosis, and treatment of acute and chronic surgical conditions.
C ₂	Getting acquainted with surgical wards, operating rooms, and outpatient clinics.
C ₃	Developing skills in examining patients with abdominal conditions and performing basic
	surgical procedures such as bladder catheterization, wound dressing changes, suture
	and drain removal, gastric intubation, venous and arterial catheterization etc
C ₄	Ability to assist during surgical procedures.
C5	Ability to prepare the operating room and administer local anesthesia.
C6	Expanding knowledge with elements of urology, endocrinology, and cardiology
C ₇	Mastery of the theoretical and practical fundamentals in thoracic and general surgery,
	cardiac surgery, transplantology, and vascular surgery

3.2. Learning outcomes

EK (the effect of education)	The content of the learning outcome defined for the course (module).	Reference to direct learning effect
EK_01	causes, symptoms, principles of diagnosis and therapeutic procedures in relation to the most common diseases requiring surgical intervention, taking into account the specifics of childhood, including in particular: 1) acute and chronic diseases of the abdominal cavity,	F. W1

	a) diseases of the chest	
	2) diseases of the chest,	
	3) diseases of the limbs and head,	
	hana frantisma and areas initial	
FIZ	bone fractures and organ injuries;	E \\/-
EK_02	selected issues in the field of pediatric surgery, including	F. W2
	traumatology and otorhinolaryngology, and defects and acquired	
FIZ	diseases that are an indication for surgical treatment in children;	E \\/-
EK_o3	principles of qualification for basic surgical procedures and invasive	F. W ₃
	diagnostic and therapeutic procedures, principles of their	
FIZ	performance and the most common complications;	E \\/.
EK_04	principles of perioperative safety, preparation of the patient for	F. W4
	surgery, performance of general and local anesthesia and	
FIZ	controlled sedation;	E \\/-
EK_05	postoperative treatment with analgesic therapy and postoperative	F. W ₅
FK of	monitoring;	E \\/a :
EK_o6	in the basic scope of the issues of surgical transplantology,	F. W14
	indications for transplantation of irreversibly damaged organs and	
FI	tissues and procedures related to this;	
EK_07	conduct a medical interview with an adult patient;	E. U1.
EK_o8	conduct a medical interview with a child and his/her family;	E. U2
EK_o9	conduct a complete and focused physical examination of an adult	E. U ₃ .
FIX	patient;	
EK_10	conduct a physical examination of a child of any age;	E. U4.
EK_11	interpret laboratory test results and identify causes of deviations	E. U24.
FI	from the norm;	
EK_12	plan specialist consultations;	E. U32
EK_13	assess pressure sores and apply appropriate dressings;	E. U35.
EK_14	treat injuries (apply a dressing or immobilization, dress and suture	E. U ₃ 6
FILE	the wound);	5 11 0
EK_15	maintain the patient's medical records.	E. U ₃ 8
EK_16	assist with a typical surgical procedure, prepare the surgical site	F. U1.
	and locally anaesthetize the surgical area;	
EK_17	use basic surgical instruments;	F.U2.
EK_18	follow the rules of asepsis and antisepsis;	F. U ₃ .
EK_19	dress a simple wound, apply and change a sterile surgical dressing;	F. U4.
EK_20	examine the nipples, lymph nodes, thyroid gland and abdominal	F. U6
	cavity in the aspect of acute abdomen and perform a digital rectal	
	examination;	
EK_21	treat external bleeding;	F. U9
	Social Competencies: The graduate is prepared to:	1
EK_22	establish and maintain a deep and respectful contact with the	K.01
	patient, as well as showing understanding for ideological and	
	cultural differences;	
EK_23	be guided by the patient's best interests;	K02
EK_24	comply with medical confidentiality and patient rights;	K.03
EK_25	take action towards the patient based on ethical principles, with	K.04

	awareness of the social conditions and limitations resulting from the disease;	
EK_26	detect and recognise his/her own limitations and making self- assessment of educational deficits and needs;	K.05
EK_27	promote health-promoting behaviors;	K.o6
EK_28	use objective sources of information;	K.07
EK_29	formulate conclusions from his/her own measurements or observations;	K.08
EK_30	implement the principles of professional camaraderie and cooperation within a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment;	K.09
EK_31	formulate opinions on various aspects of professional activity;	K.10
EK_32	accept responsibility for decisions made in the course of professional activity, including those relating to one's own safety and the safety of others.	K.11

3.3. Program content

A. Practical Classes:

Course Content – Year VI

 Participation in the Daily Work of the Surgical Department 			
Assisting in Surgical Procedures			
Preparation of the Surgical Field			
Performing Simple Local Anesthesia			
Qualification/Disqualification of Patients for Surgery and Surgical Risk Assessment			
Obtaining Informed Consent for Surgery			
Preoperative and Postoperative Patient Care			
Planning Preoperative and Postoperative Diagnostics			
Emergency Management in Surgery			
Patient Examination and Medical History Collection Before and After Surgery			
Performing Pleural Cavity Drainage			
Wound, Abscess, and Infection Management			
Recognition and Treatment of Pressure Ulcers			
Prophylactic and Therapeutic Antibiotic Therapy			
Blood Product Therapy			
Understanding Blood Coagulation Mechanisms			
Principles of Surgical Cancer Treatment			
The Role of Preventive Surgery in Oncology			

B. Seminar Topics:

Course Content – Year VI Review and Repetition of Key Surgical Topics: 1. Organization and Functioning of the Surgical Ward and Operating Room 2. Emergency and Life-Threatening Conditions in Gastrointestinal Surgery 3. Emergency and Life-Threatening Conditions in Vascular Surgery 4. Emergency and Life-Threatening Conditions in Cardiac Surgery 5. Emergency and Life-Threatening Conditions in Thoracic Surgery 6. Emergency and Life-Threatening Conditions in Pediatric Surgery 7. Management of Maxillofacial and Craniofacial Trauma 8. Principles of Surgical Cancer Treatment 9. Tracheostomy – Elective, Urgent, and Emergency Procedures 10. Surgical Risk Assessment Before an Operation

3.4. Teaching Methods

Exercises: Practical training sessions

Seminar: Lecture, Interactive exercises with students, independent student work

Student Preparation and Participation in Research Work:

- Formulating Research Hypotheses based on scientific publications
- **Defining the Research Problem** and developing an appropriate research methodology using well-selected scientific literature
- Working with Scientific Databases to gather relevant information
- Active Participation in planning and conducting research tasks
- Processing and Analyzing Experimental Results
- Performing Statistical Analysis
- Formulating and Interpreting Conclusions based on research findings
- Contributing to the Preparation of Scientific Publications

Independent Student Work: Self-study using textbooks and academic literature.

4. METHODS AND ASSESSMENT CRITERIA

4.1. Methods for Assessing Learning Outcomes:

EK (the effect	Methods for Assessing Learning Outcomes: (Quiz/Test, Oral	Forms of
of education)	Examination, Written Examination, Project, Report,	Educational
	Observation During Classes)	Activites (L,
		PE, S)
EK_01-EK_06	Written quiz with open-ended, closed-ended, and	L, S.
	problem-solving questions.	
EK_07-EK_32	Practical assessment – case analysis.	PE, S

4.2. Conditions for Passing the Course:

All information regarding the rules for conducting and participating in classes is included in the **Regulations for Clinical Classes**, which every student is required to review before the start of the course.

Course Completion Requirements – Year VI

Practical Exercises

The final grade includes:

- Active participation in exercises
- Completion of procedures assigned to the subject in the Clinical Practical Training Logbook
- **Practical assessment** a prerequisite for taking the theoretical exam:
- The student must independently conduct a **complete medical history (subjective examination) and physical examination** of a selected patient.

Passing criteria:

- Correct presentation of basic differential diagnosis
- Proposal of appropriate additional diagnostic tests
- Suggestion of an adequate treatment plan

Final Exam:
Surgery Exam Regulations
The surgery exam takes place after the completion of the entire surgical training cycle, at the end of the 12th semester, during the summer examination session.
The exam consists of two stages :
1. Practical Module
2. Written Module
Exam Passing Criteria:
• The practical exam must be passed first before taking the written exam.
• Passing the practical exam is a prerequisite for admission to the written exam.
Practical Exam:
Practical Exam Module
The practical exam is conducted in selected surgical clinics and departments designated by the Head of the Department of Surgery that provide surgical education.
Assessment Criteria:
Assessment Criteria: During the practical exam, students are evaluated on:
During the practical exam, students are evaluated on:

• Analysis and interpretation of test results

- Diagnostic planning
- Treatment planning and description of therapeutic approaches
- Recognition and management of emergency and life-threatening surgical conditions

Passing the Practical Module:

• Successful completion of the practical exam is a prerequisite for taking the written exam.

Written Exam Module

The written exam is conducted in the form of a single-choice test. The questions cover the entire surgery curriculum as outlined in the program. Grading is based on the percentage of correct answers according to the assessment criteria specified below. The schedule (dates and locations) for both exam modules is determined by the Head of the Department of Surgery for each student group.

Grading scale based on the percentage of correct answers:

o 93-100%: Excellent (5.0)

o 85-92%: Very Good (4.5)

o 77-84%: Good (4.0)

o 69-76%: Satisfactory Plus (3.5)

o 60-68%: Satisfactory (3.0)

o Below 60%: Fail (2.0)

Social Competence Evaluation:

- Continuous assessment by instructors (observations, discussions)
- Peer and patient feedback

5. TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE THE DESIRED RESULT IN HOURS AND ECTS CREDITS

Activity	The average number of hours to complete the activity
Contact hours (with the teacher) resulting from the study	120
schedule of classes	
Contact hours (with the teacher) participation in the	6
consultations, exams	
Non-contact hours – student's own work (preparation for	74
classes, exam, writing a paper, etc.)	
SUM OF HOURS 25 TOTAL NUMBER OF ECTS	200
TOTAL NUMBER OF ECTS	8

6. PROFESSIONAL INTERNSHIPS

- N/A

7. LITERATURE

Basic literature:

Principles and Practice of Surgery 8th edition O. James Garden, Rowan W. Parks, Stephen J. Wigmore, Elsevier

Additional literature:

Essential Surgery, 6th Edition, Philip J. Deakin & Clive R. G. Quick Sabiston Textbook of Surgery, 21st Edition Courtney M. Townsend 100 Cases in Surgery, James A Gossage, Bijan Modarai

Approval of the Head of the Department or Authorized Person.