

Subject name Surgery – 5th year	ECTS Code																						
Name of unit teaching the subject THE ZBIGNIEW RELIGA FACULTY OF MEDICAL SCIENCES IN ZABRZE, THE UNIVERSITY OF TECHNOLOGY IN KATOWICE																							
Studies <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 25%;">Field of study</th> <th style="width: 25%;">degree</th> <th style="width: 25%;">mode</th> <th style="width: 25%;">major</th> <th style="width: 20%;">specialization</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">medical</td> <td style="text-align: center;">Uniform Master's</td> <td style="text-align: center;">Stationary/non-stationary</td> <td></td> <td></td> </tr> </tbody> </table>		Field of study	degree	mode	major	specialization	medical	Uniform Master's	Stationary/non-stationary														
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Didactic cycle Semester 09																							
Subject status <ul style="list-style-type: none"> mandatory / facultative 	Language of instruction Polish																						
Didactic methods Lectures with the use of audiovisual techniques, case analysis Presentation, exercises, exercises with patients, exercises with phantoms. Films and direct stream from the operating rooms Visual participations in operations	Forms and methods of passing and general grading criteria or examination requirements <hr style="border-top: 1px dashed black;"/> A. Method of passing <ul style="list-style-type: none"> examination passing with a grade* * mark where applicable <hr style="border-top: 1px dashed black;"/> B. Forms of passing: <ul style="list-style-type: none"> written examination: test / with open questions (exercises)/longer written statement oral examination oral assessment/colloquium completion of a semester assignment: preparation of a design or presentation/conducting research and presenting its results(written/oral)/completion of a specified practical work agreeing on a passing grade based on partial grades received during the course of the semester* 																						

* mark where applicable

C. Basic grading criteria

Individually specified, correspond to the educational effects

Definition of preparatory subjects and initial requirements

Familiarity with surgical anatomy, basics of pathophysiology, diseases treated by procedural methods. Familiarity with the theoretical and practical basics of treating wounds and basic surgical techniques. Familiarity with the basic methods of laboratory diagnosis and diagnostic imaging.

Subject aim

Becoming familiar with rules in a surgical ward and in the operating theatre

Learning the basics of differential diagnosis in disease entities treated with surgical methods

Learning to recognize and plan procedural treatment as far as general, vascular, oncologic, endocrine, and transplant surgery

Learning the knowledge and acquiring practical skills as far as care over surgical patients pre and post procedural treatment

Acquiring knowledge and practical skills as far as treating complications of surgical treatment

Curriculum

A. Lecture content

Contemporary views of treating carotid artery stenosis. Surgical problems with treating aortic aneurysms. Laparoscopic techniques in Transplantology. Beta-cell replacement therapy. Cancers of the large intestine. Stomach cancers.

B. Content of clinical exercise classes

Becoming familiar with organization of work and patient care in a surgical ward and with the division of tasks and competencies (W1, K1-K4)

Participation in caring for patients in the operating theatre as well as familiarity with the division of tasks and competencies (W1, U1-U2,4, K1-K4)

Becoming familiar with the mode of hospitalization in a surgical ward, recommendations for emergency admittance and planned admittance (W1, K1-K4)

Learning how to evaluate post-surgical wounds and recognizing complication in healing (U8-U10)

Participation in changing dressing and in medical procedures concerning wounds from complications (U8-U10)

Practical familiarity with preparing the patient for operation (W3, W5, U4-U6)

Practical familiarity with patient care in the post-operative period (W3, W5, W7, U1-U8)

Analysis of the treatment process from the first contact with the doctor to the end of surgical treatment of selected patients (W1-W9, U1-U8, K1-K4)

Practical exercises regarding solving clinical problems in the preoperative period with selected patients (W1-W9, U1-U13, K1-K4)

Evaluation of imaging tests at radiological and surgical councils (W3-W5, W9)

Evaluating histopathological tests at surgical and anatomo-pathological meetings (W3-W5)

Literature

1. Podstawy chirurgii. Podręcznik dla lekarzy specjalizujących się w dziedzinie chirurgii ogólnej., vol 1-2 ed. by J. Szmidt: Medycyna Praktyczna 2010

2. O. James Garden, Andrew W. Bradbury, John L.R. Forsythe, Rowan W. Parks (ed.): Chirurgia. Podręcznik dla studentów, 1st edition of the Polish edition: T Popiela, Wrocław 2009, Wydawnictwo Elsevier Urban & Partner

Educational effects:		
Effect no	Description of an educational effect	Reference to field of study related effects
Knowledge:		
W1	Knows the genetic and epidemiologic conditions of the most frequent diseases	E.W1
W2	Knows and understands the causes, symptoms, rules of diagnosis and therapeutic behavior as far as the most frequent internal diseases occurring in adults as well as their complications: Arterial diseases and venous diseases Diseases of the digestive system, including diseases of: mouth, esophagus, stomach, duodenum, intestines, pancreas, liver, bile ducts, and gallbladder, Anaphylactic shock, angioedema, hydroelectrolytic disorders, acid-base disorders, dehydration and water retention disorders, electrolyte disturbances, and acidosis and alkalosis	E.W7
W3	Knows the principles of combination therapy in oncology, algorithms of diagnostic and therapeutic behavior in the most often occurring cancers	E.W26
W4	Knows and understands the causes, symptoms, rules of diagnosis and therapeutic behavior as far as the most frequent diseases requiring surgical intervention, taking into account differences when it comes to children especially: a. acute and chronic diseases of the abdominal cavity b. chest diseases c. diseases of the limbs and head	F.W1
W5	Knows the principles of qualifying for and performing basic surgical procedures, and invasive diagnostic and therapeutic procedures	F.W3
W6	Knows the most frequent complications of the above-mentioned procedures	F.W4
W7	Knows the rules of preoperative safety, preparing the patient for operation, performing and general and local anesthesia, as well as controlled sedation	F.W5
W8	Possesses knowledge regarding the currently performed imaging tests, especially is familiar with: a. radiologic symptomatology of basic diseases, b. instrumental methods and imaging techniques used to carry out medical procedures, c. indications, contradictions, and preparation of the patient for particular types of medical examinations as well as contradictions to using contrast agents	F.W10
W9	Knows the current guidelines of cardiopulmonary resuscitation for newborns, children, and adults	F.W8
Abilities:		
U1	Conducts a medical interview with an adult patient	E.U1
U2	Conducts a full and targeted physical examination of an adult patient	E.U3
U3	Recognizes direct life-threatening conditions	E.U14
U4	Plans diagnostic, therapeutic, and preventive actions	E.U16
U5	Interprets laboratory tests and identifies reasons for deviations	E.U24
U6	Assists with a typical surgical procedure, can prepare the operative field, perform a local anesthesia of the operated site	F.U1
U7	Knows how to use basic surgical instruments	F.U2

U8	Follows the principles of asepticism and antisepticism	F.U3			
U9	Can treat a simple wound, put on and change a sterile surgical bandage	F.U4			
U10	Can treat internal bleeding	F.U9			
Social competencies:					
K1	Can establish and maintain a deep, full of respect contact with the patient				
K2	Puts the well-being of the patient above everything else				
K3	Protects patient confidentiality and patient rights				
K4	Is aware of his own limitations and the need for constant learning				
Methods used in the verification of educational effects					
Educational effect	Type of grade				
	colloquiums	Solving problems during exercise classes	Solving problems in groups	Oral examination	Written examination
W1-W9	X	X	X	X	X
U1		X	X	X	X
U2		X	X	X	X
U3		X	X	X	X
U4		X	X	X	X
U5		X	X	X	X
U6		X	X	X	X
U7		X	X	X	X
U8		X	X	X	X
U9		X	X	X	X
U10					
K1-K4		X	X	X	X

Verification of the educational effects:

A condition for receiving credit for classes and taking the examination is:

- attendance at all seminars and exercise classes implemented within the framework of the class (attendance will be taken in all classes, student who is late for class is required to notify the person taking attendance in order to mark his name on the list). Absences must be made up in a form agreed upon with the person responsible for didactics
- receiving a positive mark ("average" or higher) in all tests finishing each class

On the last day of exercise classes the students take a written test whose content is directly connected with the issues presented during class.

The final examination consists of 25 questions for which either 0 points or 1 point can be awarded.

Failing the exam means taking a makeup examination (oral or written depending on the decision of the assistant in charge of colloquiums, agreed upon with the person responsible for didactics).

Passing the written examination means a student is allowed to take a practical examination.

The practical examination (patient+simulator) checks the student's abilities as far as:

- F.U1 familiarity with the principles of assisting with a typical surgical procedure, preparing the operational field and local anesthesia of the operated site;
- F.U2. using basic surgical instruments;
- F.U3. applying the principles of asepticism and antisepticism;
- F.U4. treating simple wounds, putting on and changing sterile surgical bandages;
- FU5. Inserting peripheral venous catheters;
- F.U6. examining the nipples, lymph nodes, thyroid gland, and the abdominal cavity as far as acute

abdomen, as well as performing a rectal examination;

- F.U9. treating internal bleeding;
- E.U35. evaluating bedsores and using the appropriate dressing;

Criteria of evaluating educational effects					
Educational effect	For a grade of 3	For a grade of 3.5	For a grade of 4	For a grade of 4.5	For a grade of 5
W01-05	Exhibits familiarity with the educational content on a level of 60%-69%	Exhibits familiarity with the educational content on a level of 70%-76%	Exhibits familiarity with the educational content on a level of 77%-84%	Exhibits familiarity with the educational content on a level of 85%-92%	Exhibits familiarity with the educational content on a level of 93%-100%
U01-10	Exhibits familiarity with the educational content on a level of 60%-69%	Exhibits familiarity with the educational content on a level of 70%-76%	Exhibits familiarity with the educational content on a level of 77%-84%	Exhibits familiarity with the educational content on a level of 85%-92%	Exhibits familiarity with the educational content on a level of 93%-100%