

Subject name Surgery – 3rd 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																				
Field of study		degree	mode	major	specialization															
medical		Uniform Master's	Stationary/non-stationary																	
Surname of instructor (instructors)																				
Type of class, method of implementation and specified number of hours			Amount of ECTS points																	
A.Type of class <ul style="list-style-type: none"> • lecture, • clinical classes, • seminars, • design classes • laboratories, • lectureship, • diploma seminar, • professional internship.* * mark where applicable			Description of awarding ECTS points: <table border="1"> <thead> <tr> <th>Activity</th> <th>Student workload</th> </tr> </thead> <tbody> <tr> <td>Participation in lectures</td> <td>10 hours</td> </tr> <tr> <td>Participation in practical classes</td> <td>35 hours</td> </tr> <tr> <td>Preparation for practical classes and colloquiums</td> <td>10 hours</td> </tr> <tr> <td>Examination preparation</td> <td>5 hours</td> </tr> <tr> <td>Consultations</td> <td>5 hours</td> </tr> <tr> <td>Total number of hours</td> <td>65 hours / 30</td> </tr> <tr> <td>Amount of ECTS points per module</td> <td>2ETCS</td> </tr> </tbody> </table>		Activity	Student workload	Participation in lectures	10 hours	Participation in practical classes	35 hours	Preparation for practical classes and colloquiums	10 hours	Examination preparation	5 hours	Consultations	5 hours	Total number of hours	65 hours / 30	Amount of ECTS points per module	2ETCS
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B.Method of implementation <ul style="list-style-type: none"> • classes in a didactic room • on-line classes/<i>blended learning</i> • classes outside the didactic room 																				
C.Amount of hours in accordance with the approved curriculum Lecture – 10h Clinical classes – 35h																				
Didactic cycle Semester 06																				
Subject status • 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		Forms and methods of passing and general grading criteria or examination requirements <hr/> A. Method of passing <ul style="list-style-type: none"> • examination • passing with a grade* * mark where applicable <hr/> 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

Basic familiarity with medical interview and physical examination. Familiarity with basic laboratory examinations and imaging examinations in interventional procedures. Preparation as far as basic sciences, especially anatomy, physiology, microbiology

Subject aim

Becoming familiar with work at the surgical ward
 Becoming familiar with basic diagnostic techniques in procedurally treated diseases
 Becoming familiar with the principles and basic practical skills used in caring for patients before and after operations and interventional treatment
 Introduction to differential diagnosis in surgically treated diseases

Curriculum**A. Lecture content**

Preparing the patient for surgery (W2-W6)
 Important aspects of examining the patient in a surgical ward (W1-W5)
 Asepticism, and antisepticism in surgical practice (W1, W2, W6)
 Principles of working on the operating block (W6)
 Shock in surgery. Treating hemorrhage patients with blood products. Disruptions of homeostasis and their significance in surgery (W6-W7)
 Infections in surgery and their treatment (W3-W8)
 Basics of fluid and electrolyte balance in surgery (W3-W8)
 Wounds: classification and healing of wounds. Treating wounds. Bedsores (W3-W8)
 Bleeding and hemorrhage from the upper and lower respiratory tract (W1-W2)
 Basics of oncologic surgery (W3-W4)

B. Content of clinical classes

Participation in patient care in a surgical ward (U1-U3, K1-K4)
 Learning to evaluate postoperative wounds, recognizing complications in wound healing (U3-U5)
 Participation in changing bandages in treatment procedures regarding wounds from complications (U3, U5, K1-K4)
 Practical familiarity with preparing the patient for surgery (W2, U1-U8, K1-K4)
 Practical familiarity with caring for the patient during the postoperative period (W2, U1-U8, K1-K4)

Literature

- Podstawy chirurgii. Podręcznik dla lekarzy specjalizujących się w dziedzinie chirurgii ogólnej., vol 1-2 ed. by J.Szmidt: Medycyna Praktyczna 2010
- Andrzej Żyłuk (ed.) Zarys chirurgii. Podręcznik dla studentów i lekarzy w trakcie specjalizacji. Medipage. Warszawa 2016
- J. Kulig and W. Nowak (ed.): Ostry brzuch, Warszawa 2007, Wydawnictwo Lekarskie PZWL
- Current guidelines in surgery

Educational effects:

Effect no	Description of an educational effect	Reference to field of study related effects
Knowledge:		
W1	Knows the genetic, environmental 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:	E.W7

W3	Knows genetic and environmental conditions in the most often occurring cancers	E.W23
W4	Knows the basics of early detection of cancers and the principles of screening in oncology	E.W24
W5	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, d. bone fractures and organ injuries	F.W1
W6	Knows the rules of preoperative safety, preparing the patient for operation, performing and general and local anesthesia, as well as controlled sedation	F.W5
W7	Is familiar with postoperative care, analgesic care and postoperative monitoring	F.W6
W8	Follows the rules of asepticism and antisepticism	F.U3

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	Evaluates the general condition of the patient, as well as his state of consciousness and awareness	E.U7
U4	Plans diagnostic, therapeutic, and preventive actions	E.U16
U5	Follows the rules of asepticism and antisepticism	F.U3
U6	Knows how to use basic surgical instruments	F.U2
U7	Can examine the nipples, lymph nodes, thyroid gland, and the abdominal cavity as far as acute abdomen, as well as performing a rectal examination	F.U6
U8	Performs basic resuscitative procedures with the use of the automated external defibrillator and other rescue procedures and provides first aid	F.U10

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-W8	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
K1-K4		X	X	X	X

Criteria of evaluating educational effects	
Educational effect	Receiving a credit for the subject requires
W01-05	Exhibits familiarity with the educational content on a level of minimum 60% within the framework of a final examination
U1-U8	
K1-K4	Exhibiting skills with regards to practical classes A credit is required in order to be admitted to further classes in the subject