



Syllabus for academic year: 2020/2021			
Training cycle: 2016/17 - 2020/21			
Description of the course			
Module/Course	Surgery (2)	Group of detailed education results	
		Group code F	Group name Interventional clinical sciences
Faculty	Medicine		
Major	medicine		
Unit realizing the subject	2nd Department of General and Oncological Surgery; Department of Surgical Didactics		
Specialties	not applicable		
Level of studies	Uniform magister studies X* 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>		
Form of studies	X full-time <input type="checkbox"/> part-time		
Year of studies	5	Semester	X Winter X Summer
Type of course	X obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective		
Course	<input type="checkbox"/> major X basic		
Language of instruction	<input type="checkbox"/> Polish X English <input type="checkbox"/> other		
* mark <input type="checkbox"/> with an X			



Number of hours														
Form of education														
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Winter Semester														
Direct (contact) education					9		6							
Online learning (synchronous)	25													
Distance learning (asynchronous)					9		6							
Summer Semester														
Direct (contact) education					9		6							
Online learning (synchronous)	25													
Online learning (asynchronous)					9		6							
TOTAL per year:														
Direct (contact) education					18		12							
Online learning (synchronous)	25													
Online learning (asynchronous)					18		12							
Educational objectives (max. 6 items)														
<p>C1. To make the student know the principles of diagnosing and treating acute and chronic conditions that require surgical intervention, and qualifying the patient for elective and emergency surgical treatment.</p> <p>C2. To make the student familiar with the principles of management of abdominal trauma.</p> <p>C3. To make the student familiar with the principles of diagnosing and treating common gastrointestinal and breast malignant tumours.</p> <p>C4. To make the student familiar with the basic principles of laparoscopic surgical technique.</p>														



Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>
K 01	F.W1	knows and understands the causes, symptoms and signs of most common conditions that require surgical intervention, especially acute and chronic abdominal diseases	oral response, demonstration, test	CC, CSC, L
K 02	F.W3	knows and understands the principles of qualifying for and performing main surgical operations and invasive diagnostic or therapeutical procedures, and their main complications	oral response, test	CC, CSC, L
K 03	F.W4	knows and understands the rules of perioperative safety and preparing the patient for surgical procedures	oral response, demonstration, test	CC, CSC, L
K 04	F.W5	knows and understands the idea of postoperative treatment, including analgesia and monitoring	oral response, test	CC, CSC, L
S 01	F.U2	is able to use correctly basic surgical tools	oral response, demonstration	CC, CSC, L
S 02	F.U3	uses aseptic and antiseptic procedures	oral response, demonstration	CC, CSC, L
S 03	F.U4	is able to manage a simple wound, place and change a standard surgical wound dressing	oral response, demonstration	CC
S 04	F.U6	performs the clinical examination of breasts, lymph nodes, and abdomen, in particular diagnoses acute abdomen and performs digital rectal examination	oral response, demonstration	CC, CSC, L
S 05	F.U9	is able to control external and internal bleeding	oral response, demonstration	CC, CSC, L

****** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories:
communication of knowledge, skills or forming attitudes:

Knowledge: 5

Skills: 4

Social competences: N/A



Student's amount of work (balance of ECTS points)	
Student's workload (Class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	30
2. Online learning hours (e-learning):	80
3. Student's own work (self-study):	30
Total student's workload	140
ECTS points for module/course	5
Comments	E-learning hours include lectures and 50% classes
Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)	
<p>Lectures</p> <p>Winter semester</p> <p>2nd Department of General and Oncological Surgery</p> <ol style="list-style-type: none"> 1. Cancer of the stomach and esophagogastric junction 2. Cancer of the pancreatoduodenal area 3. Surgical tools 4. The role of nutrition in surgery 5. Colorectal and anal cancer – surgical treatment, traditional and laparoscopic 6. Primary and secondary tumors of the liver 7. Palliative surgical procedures 8. Colostomy and ileostomy: surgical technique and ostomy care 9. Benign breast diseases 10. Modern diagnostics in general and oncological surgery <p>Department of Surgical Didactics</p> <ol style="list-style-type: none"> 1. Gastroesophageal reflux disease (GERD) 2. Dysphagia <p>Summer semester</p> <p>2nd Department of General and Oncological Surgery</p> <ol style="list-style-type: none"> 1. Preparing the patient for elective surgical procedures. 2. Perioperative care and ERAS 3. Surgery of the spleen 4. Abdominal wall incisions as access for open surgery 5. Polytrauma. 6. Pilonidal cyst 7. Rare abdominal hernias 8. Parathyroid surgery 9. Legal and ethical aspects of surgery (informed consent, confidentiality, legal complaints) 10. Typical complications of surgical operations 	



Department of Surgical Didactics

1. Esophageal cancer
2. Reconstructive surgery of the esophagus

Seminars

Not applicable

Practical classes (hybrid - 50% hours direct, 50% distant learning)

Winter semester

2nd Department of General and Oncological Surgery

1. Gastric cancer: principles of surgical treatment and postoperative care. Early gastric cancer as compared with advanced tumours. (Direct education, 4 hours)
2. Colorectal cancer: diagnosis and treatment. (Distant learning, 3 hours)
3. Acute abdomen. Treatment of diffuse peritonitis: elimination of the source of infection, treatment of multiple organ failure, "open abdomen" method. (Direct education, 5 hours)
4. Surgical treatment of breast cancer: prophylactic examination, diagnosis, staging, principles of treatment. (Distant learning, 3 hours)
5. Cancers of the pancreas, gallbladder and bile ducts: diagnosis and surgical treatment. (Distant learning, 3 hours)

Department of Surgical Didactics

1. Esophageal cancer: diagnosis and treatment. (Direct education, 3 hours)
2. Modern diagnostic and therapeutic standards in biliary diseases. (Distant learning, 3 hours)
3. Non-neoplastic surgical pancreatic diseases: diagnostic and therapeutic management. (Distant learning, 3 hours)
4. Out-patient surgery: range of procedures and their principles. (Direct education, 3 hours)

Summer semester

2nd Department of General and Oncological Surgery

1. Bleeding from the upper and lower gastrointestinal tract: diagnosis and options of treatment. (Direct education, 5 hours)
2. Minimally invasive abdominal surgery: laparoscopic technique and tools, types of common laparoscopic procedures. (Distant learning, 3 hours)
3. Abdominal trauma: types of injuries, strategy of management, principles of emergency surgical treatment. (Direct education, 4 hours)
4. Ileus and obstruction of the gastrointestinal tract. (Distant learning, 3 hours)
5. Abdominal hernias: elective and emergency surgical treatment. (Distant learning, 3 hours)

Department of Surgical Didactics

1. Diagnosis and treatment of inflammatory bowel diseases. (Direct education, 3 hours)
2. Gastrointestinal stromal tumours. (Distant learning, 3 hours)
3. Anorectal diseases: conservative and surgical management. (Distant learning, 3 hours)
4. Bedsores: prophylaxis and treatment. (Direct education, 3 hours)



Other Not applicable
Basic literature (list according to importance, no more than 3 items) 1. Garden O.J. (Ed.): Principles and practice of surgery. Davidson series. Churchill Livingstone 2012 2. Lawrence P.F. (Ed.): Essentials of Surgery. Williams and Wilkins 1992 3. Kontoyannis A., Sweetland H.: Surgery. Crash Course. Mosby 2008 Additional literature and other materials (no more than 3 items) 1. Zollinger R.M.: Zollinger's Atlas of Surgical Operations. McGraw-Hill Education/Medical 2016
Didactic resources requirements (e.g. laboratory, multimedia projector, other...) Computer with Internet access, multimedia projector
Preliminary conditions (minimum requirements to be met by the student before starting the module/course) Knowledge of anatomy and physiology, skills in taking medical history and performing physical examination. Completed course of Surgery (1) during 4th year of studies.
Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades) The necessary condition is passing the semestral test with a score of at least 60 %. Each absence must be made up for, including rector's days or dean's hours. The credit for e-learning (50% classes and all lectures) is obtained by sending by e-mail correct answers to control questions included in the provided presentations. Lectures are obligatory (online).



Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	Test - score 100% The student knows, understands and explains extensively the pathomechanisms, diagnosis and treatment of all the discussed diseases, including all surgical aspects. The student takes medical history and performs physical examination of the given patient, documents it entirely correctly in writing, proposes the right diagnosis and tests needed to establish it, discusses the differential diagnosis, suggests the adequate method of surgical treatment and discusses the main principles of the operation.
Good Plus (4.5)	Test - score at least 90% The student knows, understands and explains more than 90% of the discussed theoretical topics. The student takes medical history and performs physical examination of the given patient, documents it correctly in writing, proposes a possible diagnosis and tests needed to establish it, suggests the adequate method of surgical treatment and explains its main idea.
Good (4.0)	Test - score at least 80% The student knows, understands and explains more than 75% of the discussed theoretical topics. The student takes medical history and performs physical examination of the given patient, documents it correctly in writing, proposes a possible diagnosis and tests needed to establish it, suggests the adequate method of surgical treatment.
Satisfactory Plus (3.5)	Test - score at least 70% The student knows, understands and explains more than 60% of the discussed theoretical topics. The student takes medical history and performs physical examination of the given patient, documents it acceptably in writing, proposes a possible diagnosis and tests needed to establish it, suggests a generally accepted method of surgical treatment.
Satisfactory (3.0)	Test - score at least 60% The student knows, understands and explains more than 50% of the discussed theoretical topics. The student takes medical history and performs physical examination of the given patient, documents it acceptably in writing, proposes a possible diagnosis, suggests a generally accepted method of surgical treatment.
	Criteria (only for courses/modules ending with e credit)
Credit	Does not apply to the Faculty of Medicine

Grade:	Criteria (examination evaluation criteria)
Very Good (5.0)	Not applicable
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	



Unit realizing the subject	2nd Department of General and Oncological Surgery
Unit address	Borowska 213, Wrocław (USK)
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Person responsible for module	Professor Wojciech Kielan, MD PhD
Coordinator	Professor Wojciech Kielan, MD PhD
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List of persons conducting specific classes				
Full name	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
2nd Department of General and Oncological Surgery				
Adam Skalski	MD, PhD	medical sciences	physician; u.t.	CC, LE
Renata Taboła	MD, PhD, Professor	medical sciences	physician; u.t.	CC
Grzegorz Marek	MD, PhD	medical sciences	physician; u.t.	CC
Wojciech Hap	MD	medical sciences	physician; u.t.	CC
Krzysztof Kurnol	MD	medical sciences	physician; u.t.	CC
Agata Diakun	MD	medical sciences	physician; u.t.	CC
Department of Surgical Didactics				
Katarzyna Augoff	MD, PhD, Professor	medical sciences	lekarz	CC
Michał Geneja	MD, PhD	medical sciences	lekarz	CC
Romualda Wojczys	MD, PhD	medical sciences	lekarz	CC
Michał Aporowicz	MD	medical sciences	lekarz	CC, LE
Bartłomiej Czapla	lek.	medical sciences	lekarz	CC

Date of Syllabus development

30.09.2020

Syllabus developed by

prof. dr hab. Wojciech Kielan ,
dr n. med. Adam Skalski

Signature of Head of teaching unit

Signature of Faculty Dean
Wrocław Medical University
Faculty of Medicine
Vice-Dean for English Studies
prof. Beata Sadowska, PhD