

<b>SURGERY (GENERAL + PEDIATRIC)</b>	
<b>GENERAL INFORMATION</b>	
Course coordinator	Assistant Professor Dalibor Divković, MD, PhD
Assistant/Associate	Professor Roman Pavić, MD, PhD Assoc. Prof. Goran Kondža, MD, PhD Assoc. Prof. Ivan Lovrić, MD, PhD Asst. Prof. Grgur Dulić, MD, PhD Asst. Prof. Tomislav Ištvančić, MD, PhD Asst. Prof. Želimir Orkić, MD, PhD Asst. Prof. Krunoslav Šego, MD, PhD Asst. Prof. Zdenko Boras, MD, PhD Asst. Prof. Ivan Erić, MD, PhD Ivan Koprivčić, MD, PhD Ksenija Musa-Juroš, MD, PhD Borna Kovačić, MD, PhD Bojan Trogrlić, MD Ivan Vlahović, MD Marko Babić, MD Dalibor Kristek, MD Marko Ivanović, MD
Study Programme	Integrated undergraduate and graduate university study of Medicine
Status of the course	Mandatory
Year of study, semester	5 <sup>th</sup> year, 9 <sup>th</sup> semester
ECTS	<b>13</b>
Workload (hours)	Lectures (70); Seminars (49), practical (91)
Expected number of students	70
<b>COURSE DESCRIPTION</b>	
<b>Course objectives</b>	
To know, understand, and independently interpret diseases and conditions that require surgical treatment, their symptoms, and methods of surgical treatment with surgical techniques used in all branches of surgery	
<b>Enrolment requirements and entry competencies</b>	
Passed exam in Internal Medicine	
<b>Learning outcomes at the Programme level</b>	
<b>1.1., 3.5.</b>	
<b>Learning outcomes (5-10)</b>	
After attending lectures, completing seminars and exercises, independent study, and passing the exam, students will be able to:	
<ol style="list-style-type: none"> <li>1. Argue the procedure with the traumatized patient considering the severity of the injury</li> <li>2. Critically assess diagnoses of malignant diseases of the digestive tract and propose therapy</li> <li>3. Evaluate and critically assess acute vascular diseases of the extremities</li> <li>4. Choose the option when treating a minor surgical wound, dressing, and immobilization</li> <li>5. Review findings and indications for myocardial revascularization in the team</li> <li>6. Determine priorities and perform diagnostics of acute abdomen independently and in a team</li> </ol>	

7. Assess the severity and area of the burn and recommend treatment
8. Determine inguinal hernias in adults and children
9. Choose the preparation of the surgical patient for an elective procedure

**Course content**

**Lectures**

Metabolic response to trauma, shock and blood transfusions, wounds and wound healing, surgical infections, basic surgical skills and anastomoses, principles of laparoscopic and robotic surgery, principles of pediatric surgery, principles of oncology, surgical audit and research, surgical ethics and laws, lawful rights of the patients, patient safety and improvement of the quality of surgical treatment, diagnostic X-ray examinations, endoscopic examinations, perioperative care, postoperative care and care of high-risk surgical patients, nutrition and fluid replacement in surgery, one-day surgery, introduction to trauma, early assessment and treatment of severe trauma, traumatic injuries of trunk and extremities, principles of osteosynthesis and external fixation of extremities, basics of war surgery and mass injury, elective orthopedics and sports medicine, pediatric traumatology and orthopedics, skin and subcutaneous tissue, burns, plastic and reconstructive surgery, breast and endocrine gland surgery, basics of cardiac surgeries, basics of thoracic surgery and trauma, venous and arterial vascular diseases, diseases of the thoracoabdominal aorta, hernias of the abdominal wall, peritonitis and diseases of the retroperitoneum, diseases of the esophagus, stomach and duodenum, colon cancer, inflammatory diseases of the small and large intestine, the most common liver tumors and pancreas and their treatment, cholelithiasis and complications, acute abdomen

**Seminars**

Instrumentation used in general surgery, principles of work in the operating room, benign anorectal diseases, colostomy care, congenital anomalies of the digestive tract and treatment options, ileus of the small and large intestine, bariatric surgery, differential diagnosis of jaundice, modern treatment of malignant breast tumor, chronic wound and treatment, principles of war surgery and treatment of war wounds, surgery of malignant skin tumors, treatment of postoperative pain

**Exercises**

Working with surgical instruments, familiarization with laparoscopic equipment, familiarization with extracorporeal circulation, familiarization with osteosynthetic material, control of wound healing and anastomosis, dressing, placement of the urinary catheter and central vein in a surgical patient, prescribing thromboprophylaxis, prescribing antibiotic therapy, preoperative chemoprophylaxis, principles of asepsis and antisepsis, surgical propaedeutics

**Mode of teaching**

Lectures; Seminars; Clinical exercises

**Student obligations**

Attending all forms of classes is mandatory, and the student must pass all knowledge tests. However, they are allowed for excused absences, totalling 30% of all classes. Undone exercise must be passed by colloquium

**Monitoring student work (alignment of learning outcomes, teaching methods, and grading)**

Teaching activity	ECTS	Learning outcome	Student activity	Assessment methods	Grade points	
					Min.	Max.
Lecture	5	1-5	Class attendance	Evidence sheet; evaluation	5	20
Seminar	2	4-9	Class attendance	Evidence sheet;	5	15

				evaluation		
Practical	4	1-5	Class attendance and active participation	Evidence sheet; evaluation	10	15
Final exam	2	1-9	Learning for the oral exam	Orl exam	30	50
<b>Total</b>	<b>13</b>				<b>50</b>	<b>100</b>

*Evaluation of the final exam:*

Student answer	Grade points
The answer meets the minimum criteria	30.0
The average answer with noticeable errors	37.0
The very good answer with minor errors	44.0
The exceptional answer	50.0

*Calculation of final grade:*

Based on the total sum of the points awarded during the course and the final exam, the final grade is determined according to the following distribution:

A – excellent (5): 80-100 grade points; B – very good (4): 70-79,99 grade points; C – good (3): 60-69,99 grade points; D – sufficient (2): 50-59,99 grade points

#### **Required reading (available in the library and through other media)**

Title	Number of copies in the library	Availability through other media
1. Soša T, Sutlić Ž, Stanec Z, Tonković I. Kirurgija. Sveučilište u Zagrebu, Zagreb, 2007.	3	

#### **Additional reading**

1. Williams N, O Connel PR. Bailey & Love's SHORT PRACTICE of SURGERY 27th. CRC Press Taylor & Francis Group. Boca Raton, FL. 2017.

#### **Course evaluation procedures**

Anonymous, quantitative, standardized student survey providing feedback on the course as well as on the work of course coordinators and their assistants/associates is being conducted by the QA Office of the Faculty of medicine Osijek.

#### **Note /Other**

E-learning does not count towards course contact hours, but is being used in teaching and comprises links to various web pages, as well as video and audio materials available on web pages.