



Attachment 1: Course Syllabus Template

Degree Programme in Medicine and Surgery *Academic Year 2026 / 2027*

INTEGRATED COURSE (I.C.): General Surgery

NUMBER OF CFU (ECTS credits): 9

SSD (Academic Discipline Code): MED/18

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PREREQUISITES

Basic knowledge of cervical, thoracic, and abdominal anatomy is required, along with understanding of physiology, pathophysiology, common signs/symptoms, and main diagnostic techniques.

LEARNING OBJECTIVES

- Acquire appropriate knowledge of surgical pathologies.
- Learn methodological tools for accurate clinical diagnosis.
- Analyze laboratory tests, instrumental examinations, endoscopic and radiological procedures (invasive and non-invasive), and personalized surgical treatments.
- Evaluate and resolve clinical surgical problems, balancing benefits, risks, and costs according to evidence-based medicine principles.

EXPECTED LEARNING OUTCOMES

The course focuses on the acquisition of the following knowledge and skills:

- Understanding diagnostic criteria and treatment principles for general and oncological surgery, emergency, thoracic, bariatric, endocrine, and breast surgery.
- Appropriate use of diagnostic techniques and integration into patient therapy.
- Surgical indications, timing, strategies, planning, techniques, and management of complications.

DD 1: Knowledge and understanding

- Understand the surgical diseases affecting various organ systems.
- Gain the necessary clinical and surgical methodology to address the main surgical pathologies.
- Knowledge of risk management in surgery.

DD 2: Applying knowledge and understanding

- Interpret laboratory tests, instrumental, endoscopic, and radiological exams (both invasive and non-invasive) to perform the most appropriate personalized surgical treatment.
- Learn the functionality of diagnostic tools, when to use them, and how to perform them.

DD3: Making judgements

- Recognize the importance of in-depth knowledge of topics in line with proper medical education.
- Identify the critical role of correct theoretical knowledge of the subject in clinical practice.
- Acknowledge the potential applications of acquired skills in future career paths.
- Assess the significance of the knowledge gained in the broader process of medical education.

DD4: Communication skills

- Present topics orally in an organized and coherent manner.
- Use appropriate scientific language aligned with the subject of discussion

DD5: Learning skills

By the end of the course, students will be able to independently update their knowledge of general surgery through critical appraisal of textbooks, scientific literature, and clinical guidelines. They will be able to identify their own learning needs and integrate acquired knowledge with clinical experience, developing an approach to learning grounded in evidence-based medicine and continuing professional development.

SYLLABUS**GENERAL SURGERY**

- Acute abdomen and trauma in surgery;
- Colonic polyps: indications for surgical treatment; rectal abscess, anorectal fistula, and pilonidal disease: surgical management;
- Abdominal wall surgery: inguinal and incisional hernias;
- Functional and benign surgical disorders of the esophagus, stomach, duodenum, and small intestine;
- Diseases and abnormalities of the diaphragm: hiatal hernia, diaphragmatic hernias, and post-traumatic hernias;
- Clinical presentation and surgical management of right- and left-sided colon cancer, colorectal cancer, esophageal cancer, gastric cancer, small bowel cancer, pancreatic cancer, peritoneal malignancies, retroperitoneal malignancies, and sarcomas;
- Inflammatory bowel disease (IBD): indications for surgery;
- Diverticular disease of the colon: surgical treatment options;
- Gallstone disease: indications for surgery.

Endocrine and Bariatric Surgery

- Principles of thyroid, parathyroid, and adrenal gland surgery;
- Parathyroid surgery (surgical anatomy, primary, secondary, and tertiary hyperparathyroidism);
- Adrenal gland surgery (surgical anatomy, Cushing's syndrome, primary hyperaldosteronism, pheochromocytoma, adrenal incidentaloma, adrenocortical carcinoma);
- Neuroendocrine tumors of the digestive tract (GEP-NET);

Bariatric surgery: treatment of obesity and related disorders

Breast Surgery

- Benign and malignant breast diseases: surgical treatment principles.
- Principles of modern oncoplastic surgery.

COURSE STRUCTURE

The course is structured into 100 hours of frontal teaching and 2.5 hours of practical exercises for each CFU (ECTS credits). Lessons will be conducted using educational tools such as PowerPoint/Keynote presentations with explanatory diagrams, illustrations, and representations that describe clinical scenarios and anatomical and pathophysiological structures. Videos and animations will also be used to complement the processes described in class. Attendance is mandatory.

COURSE GRADE DETERMINATION

The assessment of students' preparation will consist of a written test with 31 multiple-choice questions covering all teaching modules, with only one correct answer per question. Students will have 60 minutes to complete the exam.

To pass the exam, students must answer at least 18 questions correctly. To achieve the maximum score (30/30), students must provide 30 correct answers. Honors (30L) is awarded for answering all 31 questions correctly.

The written test may be supplemented by an oral exam if the student wishes to improve their grade.

- **18–20:** Barely sufficient knowledge and understanding of the topics; sufficient analytical and synthesis skills and independent judgment.
- **21–23:** Routine knowledge and understanding of the topics; correct analytical and synthesis skills with coherent logical reasoning.
- **24–26:** Fair knowledge and understanding of the topics; good analytical and synthesis skills.
- **27–29:** Comprehensive knowledge and understanding of the topics; significant analytical and synthesis skills, and good independent judgment.
- **30–30L:** Excellent level of knowledge and understanding of the topics; remarkable analytical, synthesis, and independent judgment skills.

OPTIONAL ACTIVITIES

In addition to lectures, students will have the opportunity to participate in seminars, research placements, and clinical placements on surgical wards.

REFERENCE TEXTS

- Sabiston Textbook of Surgery, 19th Edition. The Biological Basis of Modern Surgical Practice.
- DeVita et al. Cancer: Principles & Practice of Oncology;
- Shields et al. General Thoracic Surgery;
- Current Surgical Therapy 14th Edition by John L. Cameron MD (Editor), Andrew M. Cameron MD PhD FACS (Editor)
- Schwartz's Principles of Surgery 11th Edition by F. Brunicaudi (Author) et al.
- Srivastava's Manual of Surgery 5th Edition by Sriram Bhat (Author)
- Current diagnosis and treatment Surgery di Gerand Doherty 15 ed. Lange McGraw- Hill education
- Zollinger's Atlas of Surgical Operations, Tenth Edition 10th Edition by Robert Zollinger (Author), E. Ellison (Author)
- Netter's Surgical Anatomy and Approaches (Netter Clinical Science) 2nd Edition by Conor P Delaney MCh PhD FRSCI (Gen) FACS (Author)
- Top Knife: The Art and Craft of Trauma Surgery by Dr Asher Hirshberg MD FACS (Author), Dr

Kenneth L Mattox MD FACS (Author), Mary K Allen (Editor), Dr Scott Weldon (Illustrator)

- Pocket Guide to the Operating Room Fourth Edition by Maxine A. Goldman BS RN (Author)