COURSE OF STUDY: Medicine and Surgery (LM41)
ACADEMIC YEAR: 2024/25
INTEGRATED COURSE: MEDICAL-SURGICAL SPECIALTIES 3 (TOT 11 CFU/ECTS)
ACADEMIC SUBJECTS:

- **HEMATOLOGY**
- **GASTROENTEROLOGY**
- **MEDICAL ONCOLOGY**
- **GASTROINTESTINAL SURGERY**
- **SURGICAL ONCOLOGY**

CANALE: AK

General information	
Year of the course	*IV*
Academic calendar (starting and ending date)	*I semester*
Credits(CFU/ETCS):	*2*
SSD	*Hematology MED/15*
Language	*Italiano*
Mode of attendance	*Mandatory*

Professor	
Name and surname	Pellegrino Musto
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Telephone	080 5593471 080 5478966
Department and address	*Hematology direction, Chini building, third floor*
Virtual room	
Office Hours (and modalities: e.g., by appointment, on line, etc.)	*Contact the professor by email*

Work schedule			
Hours			
Totals	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
28	*24*	*4*	*0*
CFU/ETCS			
3			

General information	
Year of the course	*IV*
Academic calendar (starting and ending date)	*I semester*
Credits(CFU/ETCS):	*2*
SSD	*Gastroenterolgy MED/12*
Language	*Italiano*
Mode of attendance	*Mandatory*

Professor	
Name and surname	*Giuseppe Losurdo*
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Telephone	*0805594430*
Department and address	*IV floor pavillion" Vecchie cliniche chirurgiche" (at Gastroenterology direction)*
Virtual room	
Office Hours (and modalities: e.g., by appointment, on line, etc.)	*Contact the professor by email*

Work schedule			
Hours			
Totals	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
28	*24*	*4*	*0*
CFU/ETCS			
3			
General information			
Year of the course	*IV*		
Academic calendar (starting and ending date)	*I semester*		
Credits(CFU/ETCS):	*2*		
SSD	*Oncology MED/06*		
Language	*Italiano*		
Mode of attendance	*Mandatory*		

Professor	
Name and surname	*Camillo Porta – Cives Mauro*
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Telephone	*080-5594167*
Department and address	*IV floor pavillion" Vecchie cliniche chirurgiche"*
Virtual room	*Su appuntamento previo contatto e-mail*
Office Hours (and modalities: e.g., by appointment, on line, etc.)	*camillo.porta@uniba.it*
Work schedule	*Contact the professor by email*

Hours			
Totals	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
28	*24*	*4*	*0*
CFU/ETCS			
3			
General information			
Year of the course	*IV*		
Academic calendar (starting and ending date)	*I semester*		
Credits(CFU/ETCS):			
SSD	*General Surgery MED/18*		
Language	*Italiano*		
Mode of attendance	*Mandatory*		

Professor	
Name and surname	Marcella Rinaldi
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Telephone	338/2182556
Department and address	*Direction of Surgery Unit "Rubino"*
Virtual room	

Office Hours (and modalities: e.g., by appointment, on line, etc.)	*Wednesday h.13-14*

Work schedule			
Hours			
Totals	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
12	*12*	*0*	*0*
CFU/ETCS			
1			

General information	
Year of the course	*IV*
Academic calendar (starting and ending date)	*I semester*
Credits(CFU/ETCS):	1
SSD	*General Surgery MED/18*
Language	*Italiano*
Mode of attendance	*Mandatory*

Professor	
Name and surname	Marcella Rinaldi
e- mail	marcella.rinaldi@uniba.it
Telephone	338/2182556
Department and address	*Direction of Surgery Unit "Rubino"*
Virtual room	
Office Hours (and modalities: e.g., by appointment, on line, etc.)	*Wednesday h.13-14*

Work schedule			
Hours			
Totals	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
12	*12*		
CFU/ETCS			
1			
Learning Objectives	*Provide the necessary knowledge to correctly apply methodologies for detecting clinical, functional, and laboratory findings, interpreting them according to pathophysiological, diagnostic, and prognostic criteria*		
Course prerequisites	*Knowledge of normal anatomy, pathophysiology, and human biology.*		

Teaching strategies	*Frontal lectures in the classroom (frontal teaching), with the help of slides and videos presented in lessons. Practical lessons in the ward and/or outpatient clinics. Integration with the recommended textbook.*

Expected learning outcomes in terms of ***Knowledge and understanding on:***	*Knowledge of the main pathological conditions in the field of blood diseases, oncology, gastroenterology, digestive system surgery, and oncological surgery;*

Applying knowledge and understanding on: ***Soft skills:***	*particularly concerning etiopathogenesis, clinical manifestations, instrumental and laboratory diagnostics, and an overview of therapy.* *Application of acquired knowledge to real and/or simulated clinical cases.* *To be able to take a medical history and perform a physical examination in a patient* *Autonomy of judgment* • *At the end of the course, the student should be able to:* *Formulate diagnostic hypotheses in front of clinical cases* *Develop differential diagnoses* *Suggest clinical, laboratory, and instrumental exams* *Apply knowledge of molecular biology and precision medicine to formulate a diagnosis* *Propose a possible therapeutic pathway.* • *Communication skills* *At the end of the course, the student must be able to:* *Describe the main blood diseases, neoplasms, and digestive system diseases o Identify signs/symptoms of a patient suffering from blood diseases, neoplasms, and digestive system diseases* *Conduct a proper medical history and physical examination* *At the end of the lessons, the student should have acquired:* *The ability to independently learn under the guidance of a teacher/tutor about blood diseases, oncology, gastroenterology, surgery of the digestive system, and oncological surgery, particularly in terms of etiopathogenesis, clinical manifestations, diagnostics, and an overview of therapy.* *The ability to formulate clinical hypotheses comprehensively, integrating them with other knowledge acquired in other fields of internal medicine* *A foundation for a clinical approach to the patient, to be further developed in future teachings.*
Content knowledge (Hematology)	1. *Hematopoietic stem cell and pathophysiology of hematopoiesis: Introduction to hematopoietic stem cells, with particular attention to the mechanisms of self-renewal, differentiation, and neoplastic transformation.* 2. *Hematological diagnostics: Overview of the main diagnostic techniques used in hematology.* 3. *Anemias: Classification, pathogenesis, diagnosis, and treatment overview of the main forms of anemia, focusing on the underlying pathophysiological mechanisms and clinical picture.* 4. *Myelodysplastic syndromes: Pathogenesis, diagnosis, and an overview of therapeutic approaches for myelodysplastic syndromes.* 5. *Chronic myeloproliferative neoplasms: Clinical and molecular characteristics of the main myeloproliferative neoplasms. Focus on diagnostic criteria and differential diagnosis.* 6. *Acute leukemias (myeloid and lymphoid): In-depth study on diagnostic criteria and clinical management.* 7. *Chronic lymphocytic leukemia: Clinical picture, analysis of diagnostic strategies, and differential diagnosis.* 8. *Lymphomas: Review of the main subtypes of lymphoma, focusing on molecular, clinical, diagnostic aspects, and differential diagnosis.* 9. *Monoclonal gammopathies: Description of monoclonal gammopathies of uncertain significance, multiple myeloma, amyloidosis.* 10. *Rare lymphoid neoplasms: Discussion on diagnostic criteria and management of less common lymphoid neoplasms.*

	11. *Thrombocytopenias and coagulation disorders: Exploration of causes, clinical aspects, diagnosis, and differential diagnosis of the main pathologies involving platelets and coagulation.* 12. *Cellular therapy in hematology: Overview of the use of cellular therapies, including stem cell transplants and CAR-T cell therapies, in the treatment of hematological diseases.*
Texts and readings	*Manuale di Ematologia, a cura di Paolo Corradini e Robin Foa', Minerva Medica, 2020* *Corso di Malattie del sangue e degli organi emolinfopoietici, Tura et al. 2020 Esculapio* *Ematologia, a cura di N. Giuliani e A. Olivieri, Idelson Gnocchi, 2020*
Notes, additional materials	
Repository	*Materials and slides provided by the teacher*
Content knowledge (Gastroenterology)	Esophageal Pathophysiology Motor and inflammatory pathology of the esophagus Esophageal motor disorders: achalasia, diffuse esophageal spasm Gastroesophageal reflux disease Gastroduodenal Pathophysiology Acute and chronic gastritis Gastric and duodenal peptic disease Dyspepsia • Classification • Pathophysiology • Clinical approach to the dyspeptic patient Pancreatic Pathophysiology Pancreatitis Acute pancreatitis Chronic pancreatitis Endocrine tumors of the pancreas Cystic tumors of the pancreas Liver Pathophysiology Jaundice and cholestasis • Jaundice • Bilirubin metabolism • Classification of jaundice • Cholestasis Cirrhosis and its complications Ascites: Etiology, diagnosis, complications Hyperammonemia and hepatic encephalopathy Hepato-renal syndrome Chronic liver diseases • Acute and chronic viral hepatitis • Autoimmune hepatitis • Drug-induced liver pathology • Alcoholic liver disease • Congenital liver diseases: Wilson's disease and genetic hemochromatosis • Biliary tract diseases: Primary sclerosing cholangitis and primary biliary cirrhosis Hepatocarcinoma Overview of liver transplantation and liver failure Constipation and diarrhea. • Constipation (Physiology, Pathogenesis, Diagnostic approach)

	• Diarrhea (Definition, Clinical characteristics, Pathophysiological mechanisms, Diagnostic investigations) Malabsorption • Pathophysiology • Classification • Diagnosis Celiac disease SIBO (Small Intestinal Bacterial Overgrowth) Carbohydrate intolerance Food allergies Eosinophilic disorders of the digestive tract Chronic inflammatory bowel diseases • Crohn's disease • Ulcerative colitis Irritable bowel syndrome Colon diverticulosis Colorectal polyps and carcinoma Overview of instrumental diagnosis in gastroenterology • Ultrasound Endoscopy
Texts and readings	*Manuale di Gastroenterologia UNIGASTRO 2022-25*
Notes, additional materials	*The manual features additional online content on clinical cases and in-depth fact sheets* *https://colmadunigastro.it/didattica/manuale*
Repository	*Materials and slides provided by the teacher*
Content knowledge (Oncology)	General Part • Epidemiology and risk factors; • Approach to the patient with cancer; • Staging of tumors; • Pathogenetic mechanisms of carcinogenesis, metastasis, and tumor progression; • Molecular diagnostics; • Oncological Therapies: cytotoxic chemotherapy; • Oncological Therapies: targeted therapies; • Oncological Therapies: hormonal therapies; • Oncological Therapies: immunotherapy and principles of tumor immunology; • Criteria for evaluating response in Oncology; • Clinical studies in Oncology; • Paraneoplastic syndromes. Diagnostic framework and main therapeutic strategies for the following neoplasms: • Lung neoplasms; • Prostate cancer; • Bladder tumor; • Kidney tumors; • Neoplasms of the male and female genital tract; • Melanoma and Non-Melanoma Skin Tumors; • Breast carcinoma; • Hepatocarcinoma and biliary tract neoplasms; • Neoplasms of the gastro-enteric tract (esophagus, stomach, colorectum, GIST); • Neuroendocrine tumors and carcinomas; • Primary and secondary skeletal neoplasms; • Soft tissue sarcomas.

Texts and readings	*Collegio degli Oncologi Medici Universitari. Manuale di Oncologia Medica. Edizioni Minerva Medica, ed. 2021*
Notes, additional materials	
Repository	*Materials and slides provided by the teacher*
Content knowledge (Oncological Surgery)	• Thyroid neoplasms • Breast neoplasms • Esophageal neoplasms • Stomach neoplasms • Small intestine neoplasms • Large intestine neoplasms • Liver and biliary tract neoplasms • Pancreatic neoplasms
Texts and readings	*Gallone Galliera Chirurgia* *Dionigi Chirurgia* *Sabiston Trattato di Chirurgia*
Notes, additional materials	
Repository	*Materials and slides provided by the teacher*
Content knowledge (Digestive system surgery)	*The course is structured into frontal teaching with cognitive objectives, and interactive teaching with theoretical-practical lessons in small groups (AFP= professional training activity). The program is structured as follows:* *SURGERY OF THE DIGESTIVE SYSTEM* *Diaphragm pathology. Non-traumatic diaphragmatic hernias: hiatal hernias, sliding, paraesophageal; gastroesophageal reflux. Traumatic diaphragmatic hernias. Esophageal and gastric pathology: Esophageal diverticula, Esophageal achalasia, Gastroesophageal reflux disease, Gastric ulcer, Zollinger-Ellison Syndrome. Pathology of the duodenum and small intestine: Duodenal ulcer. Intestinal infarction, Intestinal intussusception. Meckel's diverticulum. Pathologies of the large intestine: Chronic inflammatory bowel diseases, Acute appendicitis, Diverticulosis and diverticular disease of the Colon, Hemorrhoids, Rectal prolapse, Anal fissure, Abscesses, Anorectal fistulas. Pathologies of the liver and biliary tract: Acute and chronic cholecystitis, choledocholithiasis, surgical jaundice and their classification, bilio-digestive fistulas. Hepatic echinococcosis. Portal hypertension. Liver transplantation. Pathologies of the pancreas: Acute and chronic pancreatitis. Hernias of the abdominal viscera and their complications: Inguinal, Femoral, Umbilical, Epigastric or linea alba hernias, Internal hernias. Digestive hemorrhages: Upper and Lower Digestive Tract Peritonitis: Acute diffuse, chronic, localized peritonitis. Clinical forms of peritonitis. Subphrenic abscesses. Pelvi-peritonitis. Intestinal obstruction: definition, etiopathogenic classification, pathophysiology.*
Texts and readings	*Dionigi R. Chirurgia: Basi teoriche e chirurgia generale-Chirurgia specialistica vol.1-2. Edra editore.* *Minni. Chirurgia Generale. Zanichelli editore.* *Townsend, Beauchamp, Evers. Sabiston. Trattato di chirurgia. Edra editore.*
Notes, additional materials	
Repository	*Materials and slides provided by the teacher*
Assesment	
Assesment methods	*Assessment through an oral interview. Two-three questions on topics covered in the syllabus. The level of knowledge of the diseases and the quality of the oral*

	presentation will be evaluated. Simple questions or clinical scenarios may be proposed, on which the student can express themselves regarding diagnostic hypotheses and clinical pathways. The final evaluation will be collective with the other teachers belonging to the integrated course.
Assesment criteria	• *Knowledge and understanding of blood diseases. Effective knowledge of medical terminology.* • *Knowledge and understanding applied to clinical cases, regarding the approach to the patient.* • *Autonomy of judgment: Formulate diagnostic hypotheses, differential diagnosis, know what are the tools for instrumental and laboratory diagnosis, including genomic and molecular analysis.* • *Assessment of the student's communication skills: conduct an interview with the patient aimed at an adequate anamnestic approach.*
Final exam and grading criteria	*The final grade is given out of thirty. The exam is considered passed when the grade is greater than or equal to 18. The final evaluation of the grade is collective, taking into account the weighted average based on the credits of each teaching module.*
Further information	