**ACADEMIC DISCIPLINE OVERVIEW**

1. **Program data**

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| 1.1. Higher education institution | Grigore T. Popa University of Medicine and Pharmacy Iasi |
| 1.2. Faculty | Medical Bioengineering |
| 1.3. Department | Biomedical Sciences |
| 1.4. Field of study | Health |
| 1.5. The cycle of studies | Bachelor |
| 1.6. Study program / qualification | Balneo-physiokinetotherapy and rehabilitation – english language / Physiokinetotherapist |

**2. Discipline data**

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| 2.1. Name of the discipline / Code | **Surgical Semiology and Surgery** | **RE1218** |
| 2.2. Teaching staff in charge with lectures | **Lecturer Bogdan Caba, MD, PhD** |
| 2.3. Teaching staff in charge with practical activities | **Lecturer Bogdan Caba, MD, PhD** |
| 2.4. Year of study | **II** | 2.5. Semester | **2** | 2.6. The type of assessment | **Exam, E2** |
| 2.7. Discipline type | **Mandatory** | **Domain discipline** |

**3. Estimated total time (hours/semester of didactic activity)**

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| 3.1. Number of hours / week: | 3.2. Courses number of hours / week | 3.3. Seminars / practical classes number of hours / week |
| Semester 1 |  |  |  |
| Semester 2 | **2** | **1** | **1** |
| 3.4. Total number of learning hours: | **28** | 3.5. Of which: Courses | **14** | 3.6. Of which: Seminars / practical classes: | **14** |
| 3.7. Distribution of individual study time: | Hours sem. 1 | Hours sem. 2 |
| Study time using course book materials, bibliography and hand notes |  | 6 |
| Supplementary documentation in the library, using specialised platforms via internet and by field work |  | 6 |
| Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays |  | 10 |
| Tutorship |  | 2 |
| Examinations |  | 8 |
| Other activities |  | - |
| Total hours of individual study (*without examinations*) |  | **22** |
| 3.8. Total hours per semester |  | **50** |
| 3.9. Number of credits |  | **2** |

**4. Preconditions (where applicable)**

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| 4.1. of curriculum | Anatomy, Biochemistry, Physiology, Physiopathology |
| 4.2. of competences | Knowledge of the principles of structure and function of the living matter on a molecular, celular, tisular and organ level and their associated diseases determined by various factors and conditions |

5. **Conditions (where applicable)**

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| 5.1. for lectures | Video logistical support |
| 5.2. for seminars / practical classes | Students would have protective clothing |

**6. Specific competences acquired**

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| **Professional competencies** | **C 1.1** | Description of concepts, theories and fundamental notions of human body physiological and pathological mechanism, identification of clinical signs and symptoms, identification on methods and techniques of kinetotherapy. |
| **C 1.2** | Hypothesis generation and key concepts operation aiming to explain syndromes and /or diseases  |

7**.** **Objectives of the study discipline (according to the grid of specific competences acquired)**

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| 7.1. General objective | Accumulation of knwodelge concerning diagnostic and treatment concepts of medical diseases, along with scientific, legal ald ethical reference points, which underlie the medical practice. Internalization and interpretation of diagnosctic and therapy information in internal medicine and surgical with the purpose of argumenting, decision-taking, and practical implementation of principles and ideas from this domain and team work. |
| 7.2. Specific objectives | Knowledge about dignostic and treatment of medical conditionsIdentification of main symptoms, signs and syndromes in medical pathology, paraclinical investigations recommandation needed for definitive diagnosis and treatment options recommandations according to the stage of disease and its associated diseases. |

**8. Contents**

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| **8.1. Lectures** | **Teaching methods** | **Obs** |
| 1 | Changes in skin diseases. In intestinal obstruction, pancreatitis, malabsorption. In venous disease, arteritic, Raynaud, acrocyanosis jaundice, pancreatitis, intestinal malabsorption, diabetes | Interactive lecturing, discussions, explanations | 2 hours |
| 2 | Subcutaneous tissue: edema, lymph nodes. Benign lymphadenopathy, lymphoma, and malignant lymphosarcoma. | Interactive lecturing, discussions, explanations | 2 hours |
| 3 | Surgical infection: boil, hidradenitis, abscess, adenoflegmonulCellulite, gazoasǎ gangrene, tetanus. Asepsis, antisepsis | Interactive lecturing, discussions, explanations | 2 hours |
| 4 | Peripheral arterial disease: venous thrombosis and arterial thrombosis. | Interactive lecturing, discussions, explanations | 2 hours |
| 5 | Chest and abdominal trauma. Diseases of the upper abdomenHernia, cholecystitis, jaundice, pancreatitis, peptic ulcer, gastric cancer. | Interactive lecturing, discussions, explanations | 2 hours |
| 6 | Diseases of the lower abdomen: appendicitis, peritonitis.Intestinal obstruction, colorectal cancer. | Interactive lecturing, discussions, explanations | 2 hours |
| 7 | Diseases of the esophagus, gastric and duodenal ulcers, gastric cancer, organ transplantation. | Interactive lecturing, discussions, explanations | 2 hours |

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| **8.2. Practical activities - practical class**  | **Teaching methods** | **Obs** |
| 1 | Surgical service organization: departments, sectors, offices. Sterilization of surgical instruments and minimally invasive classic. Surgical patient examination, observation sheet. Preparing surgical patient to surgery: psychological and physical. Postoperative surgical in patient care: local and general | Case reports, interactive discussions | 2 hours |
| 2 | Preparation upper digestive tract: gastric and duodenal tubing, bowel preparation | Case reports, discussions | 2 hours |
| 3 | Local anesthesia and regional incisions, sutures, drainage; and curative bandages: dry, wet, antiphlogistic. Gastrostomy, ileostomy, colostomy. | Case reports, discussions | 2 hours |
| 4 | Peripheral arterial disease: venous thrombosis and arterial thrombosis. | Case reports, discussions | 2 hours |
| 5 | Chest and abdominal trauma. Hernia, cholecystitis, pancreatitis, peptic ulcer, gastric cancer. | Case reports, discussion | 2 hours |
| 6 | Appendicitis, peritonitis. Intestinal obstruction, colorectal cancer. | Case report, discussions | 2 hours |
| 7 | Diseases of the esophagus, gastric and duodenal ulcers, gastric cancer, organ transplantation. | Case report, discussion | 2 hours |

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| **8.3. Bibliography:** |
| ***Mandatory:***1.Schwartz’s Principles of Surgery.F.Charles Brunicardi et all,Ed.Mc Graw Hill,11th edition,**2019**,ISBN 97812598353532.Slides from our course,visible on The E Platform of UMF Iasi. |
| ***Elective:*** 3.Plowmand Sharon A., Smith Denise L. **Exercise Physiology. For health, fitness and performance.** 5th ed. Baltimore-Philadelphia, Lippincott Williams, 2019. 4.Basic Surgical Teckniques for Students and residents.St.Georgescu,C.Bradea et all.Ed UMF Iasi.2020. |
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**9. *Correlation of the discipline contents with the expectations of the epistemic community, professional associations, and representative employers from the afferent program field***

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| Knowledge and abilities are established as didactic objectives and specified as such in the analytic programs that are revised yearly. After their analysis by the study discipline staff, these are discussed and approved in the Curricular Committee, towards curricular harmonization among the various study disciplines. Along this entire process systematic evaluation is performed, directly if possible, regarding the correspondence of the contents to the expectations of the academic community and of the representatives of the social community, professional associations, and employers. |

**10. Evaluation**

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| Type of activity | Assessment criteria | Evaluation methods | Contribution to the final grade |
| Lectures | Acquiring theoretical notions and presented in the course | Written exam. MCQ Examination | 80 % |
| Practical activities | Activities carried out in laboratory and conducted quality essays. | Colloquium practical activity | Admitted/ Rejected |
| Individual study | Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays. Study time using coursebook materials, bibliography and hand notes, documentation in the library, using specialised platforms via internet and by field work. | Tests during the semester | 20 % |
| Minimal performance standard:* Ability to identify main symptoms, signs and syndromes,
* To make clinical examination and paraclinical testing for diagnosis and treatment of internal medicine and surgical diseases.
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| Date 14.09.2024 | Holder of course / signature, | Holder of practical activities / signature, |
|  |  Lecturer Bogdan Caba, MD, PhD | Lecturer Bogdan Caba, MD, PhD |

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| Date of approval in the Department Council/Teaching Council,  |
| 19.09.2024 |  | Department director / signature, |
|  |  | Associate Professor Daniela-Viorelia Matei, MD, PhD |