**ACADEMIC DISCIPLINE OVERVIEW**

1. **Program data**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.**  | **FACULTY OF MEDICAL BIOENGINEERING**  |
| **1.3.** | **PROGRAMME:** Physio-kinetotherapy and rehabilitation |
| **1.4.**  | **STUDY FIELD:** Health |
| **1.5.** | **STUDY CYCLE**: UNDERGRADUATE |
| **1.6.** | **STUDY PROGRAMME:** INENGLISH |
| 1. **Subject data**
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| **2.1.** | **Subject: Surgical semiology and surgery RE 1207** |
| **2.2.** | **Module leader: Assoc. Prof. Bradea Costel, Ph-D** |
| **2.3.** | **Seminar leader: Assoc. Prof. Bradea Costel, Ph-D** |
| **2.4. Year of study** | **II** | **2.5. Semester in which is taught** | **I** | **2.6. Evaluation type** | Exam | **2.7. Subject status** | Mandatory/D.D.  |

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

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| **3.1.Number of hours / week** | 2 | **3.2. Courses number of hours / week** | 1 | **3.3. practical classes** | 1 |
| **3.4. Total number of learning hours** | 28 | **3.5. Courses** | 14 | **3.6. practical classes** | 14 |
| **3.7. Distribution of the available time** | Hours |
| **Study based on the manual, lecture support, bibliography and hand notes** | 6 |
| **Supplementary documentation in the library, using specialized platforms via internet and by field work** | 6 |
| **Preparation for seminars / practical classes, study themes, reviews, portfolio, and essays** | 10 |
| **Tutorship** | 2 |
| **Examinations** | 8 |
| **Other activities** | - |
| **3.8. Total hours of individual study** | 22 |
| **3.9. Total hours pes semester** | 50 |
| **3.10. Number of credits** | 2 |

1. **Prerequisites (as needed)**

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| **4.1 Curriculum** | **Anatomy, Biochemistry, Physiology, Physiopathology** |
| **4.2 Skills** | **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** |

1. **Conditions (as needed)**

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| **5.1. Lectures** | **Video logistical support** |
| **5.2. Seminars/Laboratories** | **Students would have protective clothing** |

1. **Specific competences acquired**

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| Professional competences (expressed as knowledge and abilities) | C1.1 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.C1.2 Hypothesis generation and key concepts operation aiming to explain syndromes and /or diseases  |
| Transverse competences (of role, of professional development, personal) |  |

1. **Course objectives (as in the cumulated competences chart)**

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| **7.1 General objective of the discipline** | * 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. |

1. **Contents**

**8. 1. Course**

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|  | **Teaching methods** | **Obs** |
| 1. Changes in skin diseases. In intestinal obstruction, pancreatitis, malabsorption. In venous disease, arteritic, Raynaud, acrocyanosis jaundice, pancreatitis, intestinal malabsorption, diabetes
2. Subcutaneous tissue: edema, lymph nodes. Benign lymphadenopathy, lymphoma, and malignant lymphosarcoma.
3. Surgical infection: boil, hidradenitis, abscess, adenoflegmonulCellulite, gazoasǎ gangrene, tetanus. Asepsis, antisepsis
4. Peripheral arterial disease: venous thrombosis and arterial thrombosis.
5. Chest and abdominal trauma. Diseases of the upper abdomenHernia, cholecystitis, jaundice, pancreatitis, peptic ulcer, gastric cancer.
6. Diseases of the lower abdomen: appendicitis, peritonitis.Intestinal obstruction, colorectal cancer.
7. Diseases of the esophagus, gastric and duodenal ulcers, gastric cancer, organ transplantation.
 | Interactive lecturing, discussions, explanations | 2 hours2 hours2 hours2 hours2 hours2 hours2 hours |

**8.2. Laboratory**

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| 1. Surgical service organization: departments, sectors, offices. Sterilization of surgical instruments and minimally invasive classicSurgical patient examination, observation sheetPreparing surgical patient to surgery: psychological and physicalPostoperative surgical in patient care: local and general2 .Preparation upper digestive tract: gastric and duodenal tubing, bowel preparation3. Local anesthesia and regional incisions, sutures, drainage; and curative bandages: dry, wet, antiphlogistic. Gastrostomy, ileostomy, colostoma.4.Peripheral arterial disease: venous thrombosis and arterial thrombosis.5.Chest and abdominal trauma. Hernia, cholecystitis, pancreatitis, peptic ulcer, gastric cancer.6. Appendicitis, peritonitis. Intestinal obstruction, colorectal cancer.7. Diseases of the esophagus, gastric and duodenal ulcers, gastric cancer, organ transplantation. | Presentation of the diagnostic and disease stage, on patients with chronic ischemic cardiopathy, acute heart attack and heart rhythm anomalies, based on clinical examination and paraclinical testing, along with proper treatment prescription considering disease stage and associated medical conditions.Case reports, interactive discussionsCase reports, interactive discussionsCase reports, interactive discussionsCase reports, interactive discussionsCase reports, interactive discussionsCase reports, interactive discussionsCase reports, interactive discussions | 2 hours2 hours2 hours2 hours2 hours2 hours2 hours |

**Bibliography**

**mandatory**

1. Fauci A., Braunwald E. Et all.: Harrison - Principiile medicinei interne, ediţia a 14 a (a 2-a în limba română), Ed. Teora, Bucuresti, 2004.
2. C.Bradea-„Notiuni de organizarea serviciului chirurgical, nursing, fiziopatologie, semiologie si patologie chirurgicala”,Ed.”Gr.T.Popa”, Iasi, 2002

**selective**

1. Gherasim L. et all.: Ghiduri de practică medicală, Vol. I, Ed. Infomedica, Bucuresti, 1999.
2. Pandele G.I.: Semiologie medicală, Vol. I – U.M.F. Iaşi, 2000.
3. Pandele G.I.: Semiologie medicală, Vol. II – U.M.F. Iaşi, 1994.
4. Postolache P.: Farmacoterapie, vol. I, Ed. Edit Dan, Iaşi 2003.
5. Postolache P., Cojocaru C.: Tehnici şi instrumente utilizate în pneumologie, Ed. Edit Dan, Iaşi 2002.
6. Toma T.P.: Manual de medicină clinică specialităţi, Ed. Medicală S.A., Bucureşti 1997.
7. Ulmeanu V.: Semiologie medicală – Ed. Ex Ponto, Constanţa, 1996.
8. V., Lovin S., Friesen M.: Tratat de reabilitare pulmonară, Ed. Mirton, Timişoara 2009.
9. C.Bradea-„Chirurgie celioscopica”,Ed.Spiru Haret,Iasi,2002
10. E.Tarcoveanu-„Tehnici chirurgicale”, Ed.Polirom, Iasi, 2003
11. **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. |

1. **Evaluation**

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| 10.1. Activity type | 10.2. Evaluation criteria | 10.3. Evaluation method | 10.3 Percentage of the final grade |
| 10.4 Lecture | Lecture subjects | Written exam (single choice questions) | 50% |
| 10.5 Seminar/laboratory | Laboratory subjects | Practical activitySemester tests | 40%10% |
| 10.6 Minimal standards  |
| Minimal pass condition: Ability to identify main symptoms, signs and syndromes, to construe clinical examination and paraclinical testing for diagnosis and treatment of internal medicine and surgical diseases. |

**Date, Course holder signature,**

20.09.2019 Assoc. Prof. Bradea Costel, Ph-D

**Department approval date,**

30.09. 2019 **Head of the Departament Signature**

 Lecturer Matei Daniela Viorelia, Ph-D