**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** | | | | | | | |
| **1.2.** | **FACULTY : MEDICINE / DEPARTMENT:**  Medical | | | | | | | |
| **1.3.** | **DISCIPLINE:** Pneumology | | | | | | | |
| **1.4.** | **FIELD of STUDY:** HEALTH | | | | | | | |
| **1.5.** | **STUDY CYCLE: BACHELOR** | | | | | | | |
| **1.6.** | **PROGRAMME of STUDY: English** | | | | | | | |
| **2. Discipline Details** | | | | | | | | |
| **2.1.** | **Name of the Discipline:** PNEUMOLOGY | | | | | | | |
| **2.2.** | **Teaching staff in charge with lectures:** Conf. Univ. Dr. Daniela BOIȘTEANU, Șef lucr. Radu Adrian CRIȘAN-DABIJA | | | | | | | |
| **2.3.** | **Teaching staff in charge with seminar activities:** Conf. Univ. Dr. Daniela BOIȘTEANU, Șef lucr. Radu Adrian CRIȘAN-DABIJA, Asist. Univ. Dr. Andrei LUCA, Asist. Univ. Dr. Adina Magdalen ȚURCANU | | | | | | | |
| **2.4. Year** | | **5** | **2.5. Semester** | **I/II** | **2.6. Type of evaluation** | E1/E2 | **2.7. Discipline regimen** | Binding |

**3. Overall Time Estimates (hours/semester of didactic activity)**

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| **3.1. Number of hours per week** | **5** | **Of which: 3.2. lectures** | | **2** | * 1. **seminar/ laboratory** | **3** |
| * 1. **Total hours in the curriculum** | **35** | **Of which: 3.5. lectures** | | **14** | **3.6. seminar/ laboratory** | **21** |
| **Distribution of time** |  |  | |  |  | ore |
| **Study time using coursebook materials, bibliography and notes** | | | | | | 25 |
| **Further study time in the libray, online and in the field** | | | | | | 10 |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | | | | | | 25 |
| **Tutoring** | | | | | | 2 |
| **Examinations** | | | | | | 5 |
| **Other activities** | | | | | | - |
| **3.7. Total hours of individual study** | | |  | | | **65** |
| **3.8. Total hours / semester** | | |  | | | **100** |
| **3.9. Number of credits** | | |  | | | **4** |

**4. Prerequisites (where applicable)**

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| **4.1. curriculum** | Anatomy, Physiology, Physiopathology, Morphopathology, Medical semiology and clinics |
| **4.2. competences** | Not applicable |

**5. Conditions (where applicable)**

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| **5.1. for lecture delivery** | Videoprojector |
| **5.2. for seminar / laboratory delivery** | Not applicable |

**6. Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** |         Conducting an effective case history and proper recording of patient medical history with respiratory conditions.          General and respiratory clinical examination,pathological signs recording and integration into global pathological picture of the patient with respiratory conditions.          Hypothesis of differential diagnosis          Understanding laboratory test results, respiratory functional tests (spirometry, 6 minutes walking test, dyspnea scale, fatigue scale, PEF-metry) and radiological investigations.          Formulating a therapeutic plan and an eventual rehabilitation and prevention plan for the patient with respiratory disease          Recognizing clinical signs and symptoms that suggests tuberculosis diagnosis          Knowing the risk components of epidemiological knowledge of tuberculosis and elementary prevention, risk population, etc.          Knowledge of therapeutic strategy in the treatment of tuberculosis, and any possible side effects of the tuberculostatic medication administration.          Knowledge the practical elements of the fibrobronhoscopic exam, x-ray, pleural punction, and polysomnography   * Knowledge of the tabacology elements, clinical short-term, medium-term and long-term risk of tobacco use, anti-smoking counseling and combat against smoking. |
| **Transversal Competences (roles, personal and professional development)** | * Active listening to the patient, his family or other persons who may give the relevant information concerning the State of health of the patient * Development of empathic communication skills, professional and mutual respect with the patients and their family * Prioritizing information and differentiation of nonessential information. * Explanation of effective, comprehensive and comprehensible procedures, consent and therapeutic strategy to be applied to patients with respiratory disorders * A clinical case presentation -concise, efficient and completely. |

**7. Obiectives of the Discipline (related to the acquired competences)**

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| **7.1. General Obiective** | Acquiring specific practical and theoretical pneumological skills |
| **7.2. Specific Obiectives** | -Examination and presentation of a clinical case with respiratory pathology     Performing and interpretation of specific clinical tests results  - Pulmonary tuberculosis cases management in accordance with current stipulations |

**8. Contents**

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| **8.1. Lecture** | | **Teaching methods** | **Comments** |
| Course 1:  -      Definition, etiology and epidemiology of tuberculosis  -      Pathogenesis of tuberculosis  -      primary tuberculosis of the child-positive and differential diagnosis | | Overview, explaining,  Description, demonstration, exemplification, orientation, case discussions, case presentations |  |
| Course 2:  -      Secondary pulmonary tuberculosis-positive and differential diagnosis (round and hollow opacities) Tuberculosis treatment; Tuberculous pleural effusion  -      Tuberculosis of immunsuppressed patients (diagnosis and treatment);  -      Pulmonary complications of HIV-related | | Overview, explaining,  Description, demonstration, exemplification, orientation |  |
| Course 3:  -      Sarcoidosis  -      Mediastinal pathology | | Overview, explaining,  Description, demonstration, exemplification, orientation |  |
| Course 4:  -      Pleural pathology  -      Bronchopulmonary neoplasms (diagnosis) | | Overview, explaining,  Description, demonstration, exemplification, orientation, case discussions, case presentations |  |
| Course 5:  1) Chronic Obstructive Pulmonary Disease  2) Respiratory Failure | | Overview, explaining,  Description, demonstration exemplification, orientation |  |
| Course 6: lower respiratory tract Infections  -      Lung abscess  -      Community-acquired pneumonia  -      Health care related pneumonias | | Overview, explaining,  Description, exemplification, orientation, demonstration, discussion of case |  |
| Lecture 7:1) Sleep Apnea Syndrome  2) Comorbidities in chronic pulmonary pathology  -      Cor pulmonale  -      Pulmonary embolism  -      Pulmonary hypertension | | Overview, explaining,  Description, demonstration exemplification, orientation, case discussions |  |
| **Bibliography**   1. Référentiel pour la préparation de l’ECN   Collège des Enseignants de Pneumologie  Sous la direction du Pr Charles H. Marquette, 2013   1. ERS Handbook: Respiratory Medicine 2. Course of pneumophtisiology, D Boisteanu, Carol Davila, Bucuresti, 1996 (Teacher’s lectures) 3. Compendiu de specialităţi medico-chirurgicale. Victor Stoica, Viorel Scripcaru. Bucureşti: Editura Medicală, 2016. 2 volume, ISBN 978-973-39-0802-9. | | | |
| **8.2. Seminar / Laboratory** | **Teaching methods** | | **Comments** |
| 1. Clinical examination–particularities of patients with respiratory diseases  Measuring vital signs  Defining the main respiratory diseases: asthma, COPD, pneumonia, pleurisy, pulmonary tuberculosis, lung cancer. | Overview, explaining,  description, demonstration, exem-  plification, orientation, case presentation, achievement of practical procedures (tuberculine skin test, thoracenthesis, etc) | |  |
| 2. Arterial blood gas (ABG) analysis  Interpretation of functional respiratory tests  Hemoptysis  Sarcoidosis | Overview, explaining,  description, demonstration, exem-  plification, orientation, case presentation, achievement of practical procedures (tuberculine skin test, thoracenthesis, etc) | |  |
| 3.Tuberculosis diagnosis  [Procedures for collection and analysis **of**](http://ccs.infospace.com/ClickHandler.ashx?encp=ld%3D20161116%26app%3D1%26c%3Dsosodesk%26s%3Dbysenda%26rc%3Dsosodesk%26dc%3D%26euip%3D89.34.126.114%26pvaid%3D7a9aedeed2794f7d8558e0dd7ef26919%26dt%3DDesktop%26fct.uid%3D9e38de16168346a6953b553901a6a1f0%26en%3D4EFrMFXUv7YrW%252bvGVs5puXj1o3wMpQlY0fPMozidyighM%252b%252fLVtCp1vbRCONiF0lu%26ru%3Dhttp%253a%252f%252fcid.oxfordjournals.org%252fcontent%252f54%252fsuppl_2%252fS140.full%26coi%3D771%26npp%3D6%26p%3D0%26pp%3D0%26mid%3D9%26ep%3D6%26du%3Dcid.oxfordjournals.org%252fcontent%252f54%252fsuppl_2%252fS140.full%26hash%3DC25CF87D8E2F4306B491D6C50B8AA448&ap=6&cop=main-title)  bacteriological sputum exam  Tuberculine skin test | Overview, explaining,  description, demonstration,  exemplification, orientation, case presentation, achievement of practical procedures (tuberculine skin test, thoracenthesis, etc) | |  |
| 4. Bronchoscopy  TB treatment  BCG vaccination | Overview, explaining,  description, demonstration, exemplification, orientation, case presentation, achievement of practical procedures (tuberculine skin test, thoracenthesis, etc) | |  |
| 5. Investigation of sleep apnoea  Methods of assisted ventilation | Overview, explaining,  description, demonstration, exemplification, orientation, case presentation, achievement of practical procedures (tuberculine skin test, thoracenthesis, etc) | |  |
| 6. Thoracentesis.  Current tests for the diagnosis of exudates and transudate in pleural effusion | Overview, explaining,  description, demonstration, exemplification, orientation, case presentation, achievement of practical procedures (tuberculine skin test, thoracenthesis, etc) | |  |
| 7.Standard chest X-ray interpretation  Recognition of lung’s anatomical elements.  Case presentations | Overview, explaining,  description, demonstration, exemplification, orientation, case presentation, achievement of practical procedures (tuberculine skin test, thoracenthesis, etc) | |  |
| **Bibliography**  **Pneumology. Manual for students and young doctors.**  **Slideshare: www.slideshare.com/tmihaescu** | | | |

**9. Correlations between the contents of the discipline and the expectations of the epistemic community, of profesional associations and of employers in the field**

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| Knowledge and skills are set as objectives mentioned as such in teaching and curricula reviewed annually. After analysis within the discipline, they are discussed and approved at the Bureau of Curriculum, in order to harmonize with other disciplines. Throughout the period is assessed systematically as possible direct correlation between content and expectations of the academic community, Nominees of the community, professional associations and employers. As a primary goal, discipline aims to give students optimal preconditions for the next years of study in the program Licence in Medicine in anticipation of successful employment immediately after graduation in residency programs in Romania and other EU countries. |

**10. Evaluation**

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| **Type of activity** | **10.1. Evaluation criteria:** | **10.2. Methods of evaluation** | **10.3. Percentage of final grade** |
| **10.4. Lecture** | Grade for multiple choice test | standardized multiple choice test | 50% |
| **10.5. Seminar / Laboratory** | Average grade of ongoing examinations | ongoing evaluation | 10% |
| Grade for practical examination | practical exam  The exam is a written test, without access to documentation, has duration 1 hour and includes two types of topics: theoretical subject and a clinical case - clinical vignette form | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline** | | | |

**Date: Signiture of Didactic Co-ordinator**

**1/10/2019 Associated Professor Boisteanu Daniela, MD, PhD**

**Signiture of Department Director Professor Laura SOLOVASTRU, MD, PhD**