**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.**  | **FACULTY : MEDICINE / DEPARTMENT: SURGERY II** |
| **1.3.** | **DISCIPLINE: ENT** |
| **1.4.**  | **FIELD of STUDY: MEDICINE** |
| **1.5.** | **STUDY CYCLE: BACHELOR**  |
| **1.6.** | **PROGRAMME of STUDY: English**  |
| 1. **Discipline Details**
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| **2.1.** | **Name of the Discipline: ENT** |
| **2.2.** | **Teaching staff in charge with lectures: LECTURER DRAGOS PALADE** |
| **2.3.** | **Teaching staff in charge with seminar activities: LECTURER DRAGOS PALADE, Asistent dr.Florentina Severin** |
| **2.4. Year**  |  | **2.5. Semester** |  | **2.6. Type of evaluation**  |  | **2.7. Discipline regimen**  |  |

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

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| * 1. **Number of hours per week**
 | 7 | **Of which: 3.2. lectures** | 3 | * 1. **seminar/ laboratory**
 | 4 |
| * 1. **Total hours in the curriculum**
 | 52 | **Of which: 3.5. lectures** | 24 | **3.6. seminar/ laboratory** | 28 |
| **Distribution of time**  |  |  |  |  | Hours |
| **Study time using coursebook materials, bibliography and notes**  | **15** |
| **Further study time in the libray, online and in the field** | **10** |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | **5** |
| **Tutoring** | 3 |
| **Examinations** | **5** |
| **Other activities** | 10 |
| **3.7. Total hours of individual study** |  | 48 |
| **3.8. Total hours / semester** |  | 100 |
| **3.9. Number of credits**  |  | 4 |

1. **Prerequisites (where applicable)**

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| **4.1. curriculum** | Nu e cazul |
| **4.2. competences** | Nu e cazul |

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** | Nu e cazul |
| **5.2. for seminar / laboratory delivery** | Nu e cazul |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | * Aquiring knowledges about congenital, traumatic, inflammatory and tumoral pathology in head and neck area.
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| **Transversal Competences (roles, personal and professional development)** | * **Understanding how ENT pathology in connection with other specialities**
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1. **Obiectives of the Discipline (related to the acquired competences)**

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| **7.1. General Obiective** | aquiring the diagnostic methods and treatment stratregy in ENT. |  |
| **7.2. Specific Obiectives**  | emergencies’ management in ENT (respiration, hemorrage , trauma etc) |  |

1. **Contents**

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| **8.1. Lecture** | **Teaching methods**  | **Comments** |
| Nr.1 (2 hours)Clinical anatomy and physiology of the pharynx and Waldeyer’s ring; Acute tonsillitis – etiology, clinical signs and symptoms, treatment. Complications of acute tonsillitis | Powerpoint Presentations  |  |
| Nr.2 (2 hours)Acute and chronic adenoiditis; Acute and chronic infections and inflammatory pathology of the pharynx (chronic tonsillitis, chronic pharyngitis, specific infections); Chronic tonsillitis as focal infection; Benign and malignant tumors of the pharynx | Powerpoint Presentations |  |
| Nr.3 (2 hours)Oral cavity – anatomy, trauma, inflammatory diseases, tumors; Neck congenital fistula and cysts; Differential diagnosis of neck masses.; Clinical anatomy and physiology of esophagus | Powerpoint Presentations |  |
| Nr.4 (2 hours)Foreign bodies in the pharynx and esophagus; Burns and stenosis of the pharynx and esophagus; Tumors of the esophagus; High and low dysphagia ; **Clinical anatomy and** Powerpoint Presentations **physiology of the larynx and tracheo-bronchial tree** | Powerpoint Presentations |  |
| Nr. 5 (2 hours) Acute and chronic infections and inflammatory disorders of the larynx; Benign tumors of the larynx; Malignant tumors of the larynx (etiology, pathology, symptoms, treatment) | Powerpoint Presentations |  |
| Nr. 6 (2 hours)TNM stage system and treatment of the laryngeal cancer; Foreign bodies in the larynx, trachea and bronchial tree;Tracheotomy(techniques, indications);Laryngeal trauma. | Powerpoint Presentations |  |
| Nr. 7 (2 hours)Clinical anatomy and physiology of the nose and paranasal sinuses;Nasal obstruction;Epistaxis – etiopathogeny, treatment;Nasal deformities (choanal atresia and others). | Powerpoint Presentations |  |
| Nr. 8 (2 hours)Trauma of the nose and paranasal sinuses;Nasal furuncle; Acute and chronic rhinitis;Specific infections of the nose and paranasal sinuses; Acute and chronic sinusitis; Complications of the sinusitis  | Powerpoint Presentations |  |
| Nr. 9 (2 hours)Sino nasal allergy; Nasal polyposis; Benign and malignant tumors of the nose and paranasal sinuses; Headaches. | Powerpoint Presentations |  |
| Nr. 10 (2 hours)Clinical anatomy and physiology of the ear;Referred otalgia;Ear deformities;Trauma of the ear. Inflammatory and infectious disorders of the external ear(furunculosis, diffuse external otitis, otomycosis); | Powerpoint Presentations |  |
| Nr. 11 (2 hours)Inflammatory and infectious pathology of the middle ear (and mastoid process).Exocranial complications of otitis media and otomastoiditis (subperiostal abscess of mastoid process, facial nerve palsy, labirynthitis); Endocranial complications of otitis media and otomastoiditis.Hearing loss and hearing aids  | Powerpoint Presentations |  |
| Nr. 12 (2 hours)Salivary glands – clinical anatomy and physiology, paraclinic exams, inflammatory disorders, tumors; Thyroid gland - clinical anatomy and physiology, paraclinic exams, hyper- and hypothyroidism; Inflammatory and tumoral disorders of the thyroid glandCranial nerves diseases; Differential diagnosis of neck masses | Powerpoint Presentations |  |
| **Bibliography**1. V. Costinescu, M. D.Cobzeanu, C. Dinu - Patologie O.R.L.- Patologie cervicală. Tipografia UMF IAŞI. 1998.
2. M. D. Cobzeanu - Curs patologie otolaringologică şi cervico-facială. Ed PIM, 2003
3. M. D. Cobzeanu si colab. – Compendiu de patologie oto-rino-laringologica si chirurgie cervico-faciala, Editura Junimea , Iasi , 2009
4. R. Călăraşu, Tr. Ataman, V. Zainea - Manual de patologie otorinolaringologică şi chirurgie cervico-facială. Ed. Univ. Carol Davila, Bucureşti, 2000.
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| **8.2. Seminar / Laboratory** | **Teaching methods**  | **Comments** |
| * Otolaryngology – generalities;
* E.N.T. examination and health history taking; patient’s record in otolaryngology.
* Instruments and equipments used in otolaryngology.
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| * E.N.T. examination using head mirror.
* Clinical assessment of cranial nerves functions.

Clinical case presentations |  |  |
| * Physical examination in pharyngeal disorders:
1. mouth and pharynx examination with a tongue blade;
2. posterior rhinoscopy.
* Pharyngeal exsudate samples and pharyngeal biopsies samples obtaining techniques
* Clinical case presentations of acute and chronic inflammatory diseases of pharynx; opportunity for students to perform mouth and pharynx examination
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| * Complications of acute and chronic tonsillitis – clinical aspects.
* Techniques of surgical treatment in peritonsillar and retropharyngeal abcesses.
* Physical examination in chronic adenoiditis.
* Indications for tonsillectomy and adenoidectomy; conditions contraindicating tonsillectomy and adenoidectomy.
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| * Physical examinations in pharyngeal tumoral disorders; physical neck lymph nodes examination.
* Malignant tumors (nasopharynx, oropharynx and hypopharynx) – clinical case presentations; physical examination performed by students
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| * Removal techniques of pharyngeal and oesophageal foreign bodies
* Emergency therapy for oesophageal chemical burns.
* Neck masses examination performed by students
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| * Physical examination of larynx.
* Laryngoscope and mirror examination of larynx.
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| * Inflammatory laryngeal disorders in adult and childhood age; clinical case presentations.
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| * Laryngeal tumours – clinical cases.
* Treatment techniques in foreign bodies of larynx, trachea and bronchial tree.
* Tracheotomy – indications, techniques, tracheostoma’s care.
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| * Test paper
* Physical ENT examination performed by students
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| * Symptoms, signs and physical examination in sinonasal disorders.
* Anterior rhinoscopy.
* Maxillary sinus puncture.
* Clinical case presentations
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| * Treatment techniques in epistaxis.
* Nasal fractures reduction techniques.
* Nasal obstruction treatment techniques.
* Nasal foreign bodies removal.
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| * Ear examination techniques.
* Acute and chronic inflammatory disorders of the ear; clinical cases.
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| * Ear canal foreign bodies – removal techniques.
* Ear canal irrigation – indications, contraindications, technique.
* External ear trauma; treatment techniques.
* Ear secretions samples obtaining techniques; myringotomy (timpanocentesis) techniques.
* Incision and drainage technique in external ear canal furuncle.
* Assessment of auditory function – tuning fork tests, hearing measurement (audiometry, tympanometry).
* Hearing loss identification in adult and children.
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| **Bibliography**1. Tr. Ataman - Examinarea otorinolaringologică, Ed. Tehnică Bucureşti,2003
2. Tr. Ataman si colab. – Diagnosticul diferential in otorinolaringologie , Editura Sitech Craiova , 2006.
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1. **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 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. As primary goal the discipline intends to offer the students optimal background for the following years of study in the program for License in Medicine, in the perspective of successfully hiring, immediately after graduation, in residence programs from Romania and other EU countries |

1. **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 | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline** |

**Date: 07.10.2019 Signiture of Didactic Co-ordinator**

**PROF.UNIV.DR. MIHAIL DAN COBZEANU**

 **Signiture of Department Director PROF.UNIV.DR. MIHAIL DAN COBZEANU**