DISCIPLINE GRID

1. Programme:

1.1.	**CAROL DAVILA UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST**
1.2.	**FACULTY OF DENTISTRY / 3rd DEPARTMENT**
1.3.	DIVISION: **OPHTHALMOLOGY**
1.4.	STUDY DOMAIN: **Health, sectoral regulated within European Union**
1.5.	STUDY LEVEL: **LICENCE**
1.6.	STUDY PROGRAMME: **DENTAL MEDICINE IN ENGLISH**

2. Discipline:

2.1.	DISCIPLINE NAME: **OPHTHALMOLOGY**						
2.2.	LOCATION: **CLINICAL AND EMERGENCY OPHTHALMOLOGY HOSPITAL**						
2.3.	Lectures tenure: **Prof. Potop Vasile** **Lecturer Ciocalteu Alina Mihaela (medical leave)**						
2.4.	Practical classes tenure: **Prof. Potop Vasile** **Lecturer Ciocalteu Alina Mihaela (medical leave)** **Teaching assistant Christiana Diana Maria Dragosloveanu,** **Teaching assistant Dana Margareta Cornelia Dascalescu (child rearing leave)** **Teaching assistant George Balta (pay by the hour)** **Teaching assistant Arghirescu Ana (pay by the hour)**						
2.5. Study year	**III**	**2.6.** Semester	**VI**	**2.7.** Evaluation	**Exam**	**2.8.** Type of discipline	**CD/DD**

3. Estimated total time (hours/semester)

No. hours/week	**3**	out of which	**Lectures: 1**	**Laboratory session: 2**
Total hours out of learning schedule	**42**	out of which	**Lectures: 14**	**Laboratory sessions: 28**

Time distribution	**hours**
Textbook study, lecture support, bibliography and notes	8
Supplementary documentation activity in the library, on online platforms	4
Practical activity support material, homework, portfolio and essays	14
Tutorial activity	1
Examinations	5
Other activities	1
Total hours of individual study	**33**
Total hours per semester	**75**
Credits	**3**

4. Preconditions

4.1. curriculum	- minimum knowledge about eye anatomy and physiology - elementary biology knowledge - elementary head anatomy knowledge
4.2. proficiencies	- no need

5. Conditions

5.1. for lecture activity	Amphitheater, projector, laptop
5.2. for laboratory activity	Amphitheater, projector, laptop, medical examination room

6. Accumulated skills

6.1. Proficiencies ***(knowledge and abilities)***	**I. Knowledge (cognitive dimension)** - to determine the correct diagnosis - to determine the efficient treatment **II. Abilities (functional dimension)** - to identify the problematic situations and to guide them correctly to the specialized department
6.2. Transversal skills ***(role, professional and personal development)***	**III. Role skills** - To identify the objectives, the resources, the stages and the risks - To determine the specific roles and responsabilities in a plurydisciplinary team - To establish social connections and to work efficiently in a team **IV. Professional and personal development skills** - Efficient use of the information sources - Efficient use of the communication resources

7. Objectives (based on the grid of acquired specific skills)

7.1. General Objective	- to acquire the general notions in ophthalmology - to acquire the practical skills needed to examine the patients and to establish the correct diagnosis and optimal treatment
7.2. Specific Objectives	- to conceive the optimal treatment plan for diverse ophthalmological pathologies - to develop the minimal examination practical skills in ophthalmology

8. Content

8.1. Lectures	No. hrs/topic	Teaching method	Obs.
Lecture 1. Ocular anatomy and physiology. Refraction	2	Amphitheatre, projector, laptop	Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lecture 2. Eyelid, lacrimal, orbital and conjunctival disorders. Ocular motility, binocular vision, strabismus	2		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lecture 3. Scleral and corneal disorders. Lens pathology, Cataract	2		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lecture 4. Uveal, retinal and optic nerve disorders. Anterior, intermediate and posterior uveitis. Retinal detachment. Central retinal artery occlusion, central retinal vein obstruction. Optical neuropathies	2		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lecture 5. Intraocular pressure. Glaucomas	2		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lecture 6. Ocular trauma. Concussions, wounds, burns	2		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lecture 7. Ocular tumors	2		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images

8.2 Laboratory Sessions	No. hrs/topic	Teaching method	Obs.
Lab session 1. Visual function examination Visual acuity testing Light perception tests Chromatic perception tests Refraction Refraction disorders and types of treatment	4	Amphitheater, projector, laptop, medical examination room	Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lab session 2. Anterior pole examination (cornea, anterior and posterior chamber, iris, pupil, lens) Biomicroscopy Fluorescein coloring	4		Interactive display of the materials using multimedia tools, PowerPoint

			presentations, didactic videos and images
Lab session 3. Case studies (PowerPoint presentations) Scleritis, keratitis, anterior uveitis Stomatological correlations with these pathologies	4		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lab session 4. Intraocular pressure Types of measuring Visual field examination Case studies (PowerPoint presentations) Chronic glaucoma, acute glaucoma, congenital glaucoma, secondary glaucoma	4		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lab session 5. Red eye differential diagnosis Conjunctivitis, anterior uveitis, acute glaucoma Cataract examination, grading and treatment	4		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lab session 6. Posterior pole examination Ophthalmoscopy Case studies (powerpoint presentations) Central retinal artery occlusion Central retinal vein obstruction Diabetic retinopathy Optic neuritis Ocular trauma – intraocular foreign bodies Concussions, wounds, burns	4		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images
Lab session 7. Case studies Practical examinations using ophthalmological equipment Review of the information presented	4		Interactive display of the materials using multimedia tools, PowerPoint presentations, didactic videos and images

8.3. Bibliography for lectures and laboratory/practical sessions

Marieta Dumitrache – Tratat de Oftalmologie, Editura Universitara “Carol Davila”, Bucuresti, 2012
Breviar de Oftalmologie, Vasile Potop, Editura Universitara “Carol Davila”, Bucuresti, 2013
Jack J. Kanski, John F. Salmon – Clinical Ophtalmology, Ninth edition, ELSEVIER, 2019

9. Corroborating the contents of the discipline with the expectations of epistemic community representatives, professional associations and employers in the fields representative for the program

Knowledge gained in ophthalmology is essential for every graduate of the Stomatology Faculty, mainly:
- basic knowledge about ophthalmic disorders, types of examinations and ways of treatment
- ophthalmology-stomatology disorders and treatment correlations
- recognizing the main urgent disorders in ophthalmology
- prevention of the main ophthalmological complications appeared secondary to the stomatological pathologies

Evaluation

10.1 Evaluation			
Activity type	**Evaluation Criteria**	**Methods of evaluation**	**% out of final grade**
Lecture	**A. Knowledge for mark 5:** - basic knowledge about examination in ophthalmology, diagnosing the main pathologies and ways of treatments - to recognize the main urgent disorders in opthalmology **B. Additional knowledge for mark 10** - advanced knowledge about ophthalmic disorders, types of examination, ways of treatment - ophthalmology-stomatology disorders and treatment correlations	**Exam (multiple choice questions and brief written subject)**	100% (75% + 25%)
Laboratory Sessions	**A. Knowledge for mark 5:** - basic knowledge about the main types of ophthalmological disorders - recognizing the main urgent disorders - correlations between ophthalmology and stomatology **B. Additional knowledge for mark 10** - advanced knowledge about ophthalmic disorders, types of examinations and ways of treatment - ophthalmology-stomatology disorders and treatment correlations	**Practical assessment Written subjects**	Accepted/rejected
Minimum performance standards			
- Minimum 50% at every evaluation			

Date: 10.09.2024

Chair of Ophthalmology Division,
Prof. Dr. Vasile Potop

Department director,
Prof. Dr. Ecaterina Ionescu

Date of the approval in Department Board: