DISCIPLINE SHEET

1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT III
1.4.	DISCIPLINE OPHTHALMOLOGY
1.5.	STUDY DOMAIN: Health, sectoral regulated within the European Union
1.6.	STUDY LEVEL: I (Bachelor's degree) and II (Master's degree)
1.7.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline

2.1.	Discipline name according to the study curriculum: OPHTHALMOLOGY				
2.2.	Discipline code: MD03S10EN				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure: Professor Vasile Potop MD PhD Lecturer Alina Mihaela Ciocalteu MD PhD Assistant Professor Christiana Maria Diana Dragosloveanu MD PhD Assistant Professor Dana Margareta Cornelia Dascalescu MD PhD				
2.6.	Practical classes / seminar tenure: Professor Vasile Potop MD PhD Lecturer Alina Mihaela Ciocalteu MD PhD Assistant Professor Christiana Maria Diana Dragosloveanu MD PhD Assistant Professor Dana Margareta Cornelia Dascalescu MD PhD Assistant Professor George Balta (pay by the hour) Assistant Professor Arghirescu Ana (pay by the hour)				
2.7. Year of study	III	2.8. Semester	VI	2.9. Evaluation (E/C/V)	E

3. Estimated total time (hours/ semester of teaching and training activity /individual study)

I. University training						
3.1. Number of hours per week	3	from which:	3.2. lecture	1	3.3. practical class/ seminar	2
3.4. Total hours in the study curriculum	42	from which:	3.5. lecture	14	3.6. practical class/ seminar	28
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						21
Additional documentation activity in the library, on online platforms						5
Specific preparation activities for projects, practical classes, preparation of assignments, reports						3

Preparation for presentations or evaluations, preparation for the final examination	10
Tutoring activity	2
Other activities	7
3.7. Total hours of individual study	**48**
3.8. Total hours per semester (3.4.+3.7.)	**90**
3.9. Number of credits	**3**

4. Prerequisites (where appropriate)

4.1. curriculum	Students must have minimal knowledge of anatomy, physiology and pathophysiology of the eye. Basic knowledge of biology and head anatomy.
4.2. proficiencies	No need

5. Conditions (where appropriate)

5.1. for lecture activity	Amphitheater with projection facilities
5.2. for practical class/ seminar activity	Amphitheater with projection facilities Examination rooms

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
- to be able to determine a precise diagnosis - to be able to determine the correct treatment	- to be able to determine a precise diagnosis - to be able to determine the correct treatment - to be able to determine the most precise treatment - to identify the objectives, the resources, the stages, times and risks - effective use of the information sources and communication resources and assisted professional care	- to identify the situations with a high difficulty and to redirect it to the colleagues with the necessary competences - to identify the roles and responsibilities in a pluridisciplinary team and to apply technics of teamwork and doctor-patient relationship - effective use of the information sources and communication resources and assisted professional care

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	- to acquire the general notions in ophthalmology - to determine the most effective ways of communication with the patient and to perfect the way to perform the clinical checkup for every patient in order to determine a correct diagnosis and an optimal treatment
7.2. Specific objectives	- to determine the best treatment plan for each pathology - to determine the minimal practical ability to examine the ophthalmologic patient

8. Contents

8.1. Lecture	Teaching methods	Observations
Course 1 Anatomy and physiology of the eye. Refraction and refractive errors, diagnosis, treatment and complications		Interactive presentations of the material according to the analytical program using multimedia sources, power point

		presentations and didactic movies
Course 2 Eyelid pathology, lacrimal glad orbit and conjunctiva. Eye motility, binocular vision, strabismus		Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
Course 3 Sclera, corneal and lens pathology (cataract)		Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
Course 4 Uveal pathology, retina and optic nerve pathology: anterior, intermediary and posterior uveitis. Retinal detachment. Retinal vascular disease. Optic neuritis		Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
Course 5 Intraocular pressure -physiology. Glaucoma: primary open angle glaucoma, angle closure glaucoma, primary angle closure, congenital glaucoma: diagnosis, treatment and monitoring		Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
Course 6 Ocular trauma: contusion, burns and lacerations		Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
Course 7 Ocular tumors: eyelid, choroidal tumors. Ocular metastasis. Retinoblastoma		Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
Recent bibliography: Kanski Clinical Ophthalmology 8th edition		
8.2. Practical classes/ seminar	**Teaching methods**	**Observations**
CS 1 Visual acuity examination for near and distance. Chromatic examination and light perception. Objective and subjective refraction. Refractive errors correction		**4 hours** Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
CS 2 Anterior pole examination: biomicroscopic examination, corneal examination with fluorescein, iris, lens and pupil		**4 hours** Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
CS 3 Clinical presentations, power point presentations, anterior pole pathology: keratitis, scleritis, iridocyclitis and ophthalmology-dental associations. Clinical demonstrations with power point presentations of blepharitis, conjunctivitis, dacriocistitis, strabismus, ectropion, entropion. Trauma, tumors, orbital cellulitis		**4 hours** Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
CS 4 IOP measurement. Visual field examination. Clinical demonstrations and images with		**4 hours** Interactive presentations of the material

glaucoma: chronic glaucoma, congenital glaucoma and secondary glaucoma		according to the analytical program using multimedia sources, power point presentations and didactic movies
CS 5 Differential diagnosis of the red eye: conjunctivitis, iridociclitis, angle closure glaucoma. Cataract examination with the indications and prognosis		**4 hours** Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
CS 6 Fundus examination methods Clinical presentations, power point presentations of diabetic retinopathy, retinal vein and artery occlusion, diabetis, retrobulbar neuritis, optic abnormalities, optic atrophy Case presentations of ocular trauma: foreign bodies, lacerations, contusions, burns		**4 hours** Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
CS 7 Practical demonstrations with clinical cases, ophthalmologic devices and final recapitulation		**4 hours** Interactive presentations of the material according to the analytical program using multimedia sources, power point presentations and didactic movies
Recent bibliography: Kanski Clinical Ophthalmology 8th edition		

9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage of final grade
9.4. 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 ophthalmology **B. Additional knowledge for mark 10:** - advanced knowledge about ophthalmic disorders, types of examination, ways of treatment - ophthalmology-stomatology disorders and treatment correlations	Multiple choice questionnaire (24 questions x 0,33 points = 8 points) and a written subject 2 points = 10 points	**100%**
9.5. Practical classes/ seminar	**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	Clinical cases and theoretical questions	**0%**

	– ophthalmology-stomatology disorders and treatment correlations		
9.5.1. Individual project (if any)	-	-	-
Minimum performance standard			
Basic knowledge about examination in ophthalmology, diagnosing the main pathologies and ways of treatments To recognize the main urgent disorders in ophthalmology			