



Study program: Doctoral Academic Studies in Biomedical Sciences		
Name of the subject: CURRENT ISSUES IN OPHTHALMOLOGY		
Teacher(s): Vladimir M. Čanadanović, Nikola M. Babić		
Status of the subject: elective		
Number of ECTS points: 20		
Condition:		
Goal of the subject Improving knowledge through research work in the most current areas of ophthalmology important for the quality of vision		
Outcome of the subject Understanding and getting to know certain areas of ophthalmology that enable critical analysis, evaluation and the ability to perform the research process in modern ophthalmological practice. Application of new technological achievements and methods in ophthalmology. Interdisciplinary and independently planned and conducted scientifically based clinical research.		
Content of the subject <i>Theoretical lectures</i> <ol style="list-style-type: none"> 1. Quality of vision and its disorders 2. Modern methods of optical vision correction 3. External diseases of the eye and cornea, immunology of the eye 4. Tissue transplantation in ophthalmology 5. Neuroophthalmology - disorders of vision and oculomotor balance 6. IOP physiology and pathophysiology of narrowed and closed angle glaucoma 7. Lens 8. Vitreoretinal diseases - local manifestations of systemic and genetic diseases 9. Timely diagnosis and treatment of AMD 10. Severe forms of proliferative diabetic retinopathy <i>Practical lectures</i> <ol style="list-style-type: none"> 1. Visual acuity in children and adults, tables and contrast sensitivity, aberrations 2. Color vision 3. Computerized perimetry in glaucoma 4. Electrophysiological test methods (ERG, EOG, EMG) 5. Lasers in ophthalmology 6. Eye biometrics, contact and non-contact, intraocular lenses 7. UBM analysis of the anterior segment of the eye 8. Hydrodynamics and ultrasound in cataract surgery 9. Creating a clinical monitoring program 10. Experiment in ophthalmology 		
Recommended literature <ol style="list-style-type: none"> 1. American academy of ophthalmology. Basic and Clinical Science Course. San Francisco: The foundation of the American academy of Ophthalmology 2018 2. Kanski JJ. Clinical ophthalmology. 4th ed. Oxford: Butterworth-Heinemann; 2017 		
Number of active classes	Theory: 60	Practice: 45
Methods of delivering lectures Lectures, multimedia presentations, practical research work		
Evaluation of knowledge (maximum number of points 100) activity during lectures 10 seminar paper: 40 oral exam: 50		