



Study program: Integrated Academic Studies in Dental Medicine			
Course title: Salivary Theranostics			
Teacher: Duška D. Blagojević, Bojan B. Petrović, Sanja B. Vujkov			
Course status: elective			
ECTS Credits: 3			
Condition: no			
Course aim The aim of the course is to acquaint students with the importance and possibilities of salivary diagnostics of oral and general diseases, as well as the possibilities of local and systemic oral delivery of active medical substances.			
Expected outcome of the course: Knowledge: Allows the student to understand the importance, role and capabilities of salivary theranostics in maintaining oral and general health. Skills: To master basic knowledge in salivary diagnostics that plays an important role in the early detection and prevention of many oral and systemic diseases in a rapid and non-invasive manner. Familiarity with saliva collection techniques, which is a simple, repeatable and inexpensive diagnostic source that can be used to diagnose and monitor various diseases in real time. Detection, knowledge, development and validation of saliva biomarkers that have the potential to reach clinical practice. Mastering technologies and systems that have the potential to enable screening, early detection, prognosis and monitoring of various diseases. Expanding the diagnostic potential of saliva from the oral cavity to the entire physiological system, including personalized individual drug applications			
Course description <i>Theoretical education</i> <ol style="list-style-type: none"> 1. Introduction to the subject of salivary theranostics; The importance of salivary theranostics for oral and systemic health 2. Saliva as a diagnostic fluid 3. Salivary biomarkers in the diagnosis of caries 4. Salivary biomarkers in the diagnosis of periodontal disease 5. Salivary biomarkers in the diagnosis of general diseases 6. Application of microfluidic systems in salivary theranostics 7. The concept of personalized medicine 8. Extraoral microfluidic diagnostic systems 9. Intraoral microfluidic diagnostic systems 10. Intraoral Theranostic Systems 11. Local delivery of oral medicine 12. Buccal delivery of drugs in the oral cavity 13. Sublingual oral drug delivery 14. Salivary theranostics in paediatric dentistry 15. Salivary theranostics in persons with special needs <i>Practical education</i> Practical classes that accompany the theoretical instruction program will be held at the appropriate Chair of the School of Medicine to familiarize the students with the importance of salivary theranostics, as well as to discuss current knowledge of oral hygiene methods and materials.			
Literature <i>Compulsory</i> 1. Koch G, Poulsen S: Paediatric Dentistry - a clinical approach. Copenhagen: Munksgaard, 2001.			
Number of active classes		Theoretical: 30	Practice: 15
Teaching methods: Lectures, Practice			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	20	Written	20
Practices	20	Oral	40
Colloquium		

Essay			
-------	--	--	--