Attachment No. 3		Course program of the first cycle of studies			
1.	Course title	Oral medicine and pathology			
2.	Code	DMMOM4			
3.	Study program	Dentistry - integrated first and second cycle of studies			
4.	Organizer of the study program (unit, i.e. institute, department, division)	University "Ss. Cyril and Methodius" in Skopje, Faculty of Dentistry – Skopje, Department of Oral and Periodontal Diseases			
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies			
6.	Academic year/semester	Year	4	Semester	7 and 8
7	Course workload expressed in ECTS credits	8			
8.	Teacher	Teacher in charge: Prof. Dr. Silvana Georgieva; Prof. Dr. Vera Radojkova – Nikolovska Prof. Dr. Aneta Atanasovska – Stojanovska Prof. Dr. Katarina Dirjanska Prof. Dr. Emilija Leveska – Stefanovska Prof. Dr. Stevica Ristoska Prof. Dr. Kristina Mitikj			
9.	Language in which the curriculum is conducted	English			
10.	Necessary prerequisites for taking and passing the course	To have completed all compulsory subjects from the third year and have passed all compulsory subjects from the second year			
11.	Course objectives (competences) and learning outcomes:	Awareness of the rich pathology in the oral cavity at the level of the oral mucosa, through the implementation of basic knowledge in the field of medicine, close cooperation, and the application of a multidisciplinary approach. The systematization of oral pathology into a single whole will facilitate the diagnostic procedure that leads to early and accurate diagnosis, which is a basic prerequisite for fulfilling the ultimate goal, which is successful prevention and therapy of oral diseases. The student will be able to diagnose oral diseases, clarify differential diagnostic dilemmas, and distinguish physiological structures from pathological changes. Ability to conduct a clinical examination of a patient with oral diseases, prescribe therapy, monitor therapeutic results, and resolve possible complications.			
12.	Detailed course content by chapters and units, with learning outcomes for each chapter	Theoretical teaching - lectures Chapter 1 - Introduction to oral medicine and pathology. -Anatomy of the oral cavity and classification of diseases in the oral cavity.....2 classes -Histology of the oral cavity …….....1 class -Oral flora.....1 class -Oral immunity.....1 class -Damage and healing of soft tissues.....2 classes -Pathology of the oral mucosa - efflorescences.....3 classes Results from chapter 1: After studying this chapter, students will be able to identify and describe the anatomical and histological characteristics of the oral cavity. They will acquire basic knowledge of the classification of diseases in the oral cavity, which is the basis for further diagnosis and treatment. Students will be able to understand the interactions between microorganisms and relate them to oral diseases. They will understand the basic mechanisms of oral immunity – nonspecific and specific immune protection, inflammatory processes, different types of cellular abnormalities, as well as the healing of injured soft tissues. They will learn to recognize and categorize primary and secondary efflorescences, describe their characteristics, and relate these lesions to certain diseases for which they are characteristic.			

		Chapter 2 - Pathological changes of the lips and tongue, and palate -Pathological changes of the lips.....3 classes -Pathological changes of the tongue.....3 classes -Pathological changes of the palate.....1 class Results from chapter 2: By studying this chapter, students will be able to distinguish congenital anomalies from acquired pathological conditions of the lips, tongue and palate. They will identify the most common clinical pictures and will develop skills for prevention, diagnosis and planning of appropriate therapy. Chapter 3 – Oral Cavity Injuries and Systemic Diseases - Oral mucosal injuries and side effects.....1 class - Oral changes in hematological diseases……...2 classes - Clinical manifestations of the oral mucosa in cardiovascular and respiratory diseases .....1 class - Clinical manifestations of the oral mucosa in kidney diseases and diseases of the gastrointestinal tract (GIT) ……1 class - Clinical manifestations of the oral mucosa in hormonal and metabolic disorders ……...1 class - Clinical manifestations of the oral mucosa in nutritional disorders and vitamin deficiencies .....1 class - Clinical manifestations of the oral mucosa in neurological and psychosomatic disorders .....1 class Results from chapter 3: Students will learn about the different types of oral mucosal injuries: mechanical, thermal, chemical, and radiation. They will learn to recognize the clinical manifestations of these injuries and understand the mechanisms through which they occur. In addition, the student will learn about treating these injuries. After studying this chapter, students will understand the characteristic oral manifestations in patients with diseases of various organ systems. They will be able to relate changes in the oral cavity to disorders of the organ systems, which is important for early diagnosis and an interdisciplinary approach. Chapter 4 – Age-related oral diseases -Oral medicine in children and the elderly (oral pediatrics and oral gerontology) ……...1 class Results from chapter 4: After this chapter, students will learn about the specifics of age-related oral diseases. They will be able to recognize the most common age-related oral conditions and approach their diagnosis and treatment accordingly. Chapter 5 - Salivary Gland Diseases -Soft, reversible, painful swellings; hard, irreversible, painless swellings and elastic, rubbery, and solitary changes…….1 class -Changes in salivary secretion and sensitivity…….1 class Results from chapter 5: Students will learn about the function of the salivary glands and the disorders that may occur, such as hypo- and hypersalivation. They will learn to recognize inflammatory conditions of these glands, to relate salivary gland diseases to other systemic diseases, in order to establish an accurate diagnosis and suggest appropriate treatment. Chapter 6 - Oral diseases resulting from sexual contact -Lues……..1 class -AIDS……..1 class Results from chapter 6: Upon completion of this chapter, students will be able to recognize the oral manifestations of sexually transmitted diseases such as Lues and AIDS. They will learn about their clinical course, diagnostic approach and the importance of early detection within the general health of the patient. Chapter 7 - Oral Mucosal Infections -Bacterial Infections...3 classes -Fungal Infections...3 classes -Viral Infections...3 classes Results from chapter 7: After this lecture, students will learn about the different

		types of infections affecting the oral mucosa, including non-specific and specific bacterial, viral, and fungal infections. They will be able to differentiate the clinical presentations, understand their pathogenesis, and suggest appropriate diagnostic and therapeutic approaches. Chapter 8 - Oral Aphthous Ulcerations -Stomatitis aphthosa chronica recidivans…….1 class -Other aphthous ulcers……3 classes Results from chapter 8: Upon completion of this chapter, students will be able to distinguish between the different forms of oral aphthous ulcers and their clinical features. They will learn about the etiology, diagnosis, and therapeutic options for each type, with particular focus on chronic and recurrent forms as well as ulcerations associated with systemic diseases. Chapter 9 - Mucocutaneous Bullous Diseases -Erythema exudativum multiforme and Sy. Steven-Johnson…..1 class -Pemphigus vulgaris, pemphigoid bullosus, pemphigoid mucosae oris……..2 classes -Lichen planus, Linear IgA disease……. 2 classes -Dermatitis herpetiformis, Epidermolysis bullosa.....1 class Results from chapter 9: After studying this chapter, students will gain a detailed understanding of the various mucocutaneous bullous diseases that manifest in the oral cavity. They will learn to recognize the specific clinical pictures of the diseases and will develop skills for differential diagnosis and selection of an appropriate therapeutic approach, as well as prevention of complications thereof. Chapter 10 - Systemic Autoimmune Diseases -Rheumatoid Arthritis, Juvenile Chronic Arthritis, Felty's Syndrome, and Lupus Erythematosus……...1 class -Reiter Syndrome, Scleroderma, Morbus Addison, Myasthenia gravis.....1 class Results from chapter 10: Students will learn about systemic autoimmune diseases and their oral manifestations. They will learn to relate oral symptoms to diseases such as Lupus Erythematosus, Reiter Syndrome, and Scleroderma, and will develop the ability for early detection and collaboration with other medical specialties in the treatment of these patients. Chapter 11 - Oral Allergic Reactions –Stomatitis Alergica Medica, Enanthema Fixum, Stomatitis Protetica……..3 classes Results from chapter 11: After studying this chapter, students will be able to recognize the different types of oral allergic reactions, such as stomatitis Alergica Medica, enanthema Fixum, and stomatitis Protetica. They will understand their etiology, clinical manifestations, and develop an approach for allergen identification and selection of appropriate therapy. 12. Chapter - Precancerous and cancerous conditions in the oral cavity -Facultative and obligate precancerous conditions……..3 classes -Carcinoma in the oral cavity……....1 class Results from chapter 12: After studying this chapter, students will acquire basic knowledge about precancerous and cancerous conditions in the oral cavity. They will learn to distinguish between facultative and obligate precancerous conditions and recognize the early signs of precancerous conditions and oral cancer to make a timely diagnosis and refer the patient to appropriate treatment. 13. Chapter - Oral manifestations of immunodeficiencies, vasculitis, paraproteinemias, and amyloidosis - Primary and secondary immunodeficiencies……...1 class - Paraproteinemias, amyloidosis, temporal arteritis, polyarteritis nodosa, hypersensitivity vasculitis, and Wegener's granulomatosis.....1 class Results from chapter 13: Students will be able to identify the characteristic oral manifestations associated with congenital and acquired immunodeficiencies. They will understand how immune system disorders affect oral health and will develop

		skills to approach the diagnosis and treatment of these patients. They will learn about the rare but clinically significant oral manifestations associated with vasculitis, paraproteinemias, and amyloidosis. Total: .....60 classes Practical teaching-exercises 1. Anatomy of the oral cavity…….2 classes 2. Histology of the oral cavity, oral flora. .....2 classes 3. Oral immunity……..1 class 4. Damage and healing of oral soft tissues……....2 classes 5. Inflammations Division of exudative inflammations. Division of inflammations according to duration…….....2 classes 6. Cellular deviations. Cellular adaptations. Cellular accumulations. Oral soft tissue damage, Cellular disintegration-irreversible damage....2 classes 7. Healing of injured tissue Pathology of the oral mucosa .....2 classes 8. Basic pathological processes in the epithelium and fur.....3 classes 9. Approach and anamnesis .....4 classes 10. Clinical examination .....4 classes 11. Further diagnostic procedures.....3 classes 12. Development of the diagnosis, working diagnosis, definitive diagnosis….. 3 classes 13. Hereditary genodermatoses, hereditary and developmental anomalies of the mouth……..1 class 14. Age-related oral diseases.....2 classes 15. Oral diseases as a consequence of systemic disorders ……..3 classes 16. Candidamycotic infections in the mouth .....2 classes 17. Viral infections in the mouth .....3 classes 18. Aphthous lesions .....2 classes 19. Bullous diseases .....2 classes 20. Non-specific bacterial infections .....2 classes 21. Specific bacterial infections .....2 classes 22. Allergic manifestations in the oral cavity …….2 classes 23. Precancerous and cancerous lesions in the oral cavity …….2 classes 24. Diseases of the salivary glands .....2 classes 25. Sexually transmitted diseases .....1 class 26. Clinical and laboratory tests for diagnosis in oral medicine ....2 classes 27. Light and dark changes in the oral mucosa. Pigmentations. Defects and volume increase in the oral cavity ……...2 classes Total .....60 classes		
13	Interrelation of subjects	-Biology; -Dental anatomy and morphology; -Oral biochemistry and physiology; -Microbiology and immunology; -General pathology; -Pharmacology; -Pathological basis of diseases; -Pathological physiology; -Internal medicine; -Dermatovenerology; -Psychiatry; -Infectious diseases;		
14.	Detailed description of the teaching and working methods for the subject	Interactive theoretical and practical teaching (clinical exercises), working in small groups, processing of clinical cases and discussion regarding differential diagnostics and therapy, presentation of novelties in the field of oral medicine, demonstration of methods and additional diagnostic tests used).		
15.	Total available time	240 classes		
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching. Classes	60 classes
		16.2.	Exercises (laboratory, lecture), seminars, teamwork: classes	60 classes
		16.3.	Practice: classes	

17.	Other forms of activities	17.1.	Project assignments: classes		
		17.2.	Independent assignments: classes		
		17.3.	Home study - assignments		120
18	Signature requirements	Theoretical classes: Attendance at 70% of theoretical classes Practical classes. Attendance at all exercises and appropriate replacement of missed exercises.			
19	Method of assessment				
	19.1.	Tests: points		4 tests of 10 points each	
	19.2.	Seminar paper/project, written and oral presentation: points		20	
	19.3.	Final exam: points		40	
20	Grading criteria (points/grade)		from 59 points	5 (five) (F)	
			60 to 68 points	6 (six) (E)	
			69 to 76 points	7 (seven) (D)	
			from 77 to 84 points	8 (eight) (C)	
			from 85 to 92 points	9 (nine) (B)	
			from 93 to 100 points	10 (ten) (A)	
21.	Method of monitoring the quality of teaching		Self-evaluation by students, control of assistants in carrying out practical teaching and assessment of the students' success, as well as the pass rate of students who have passed the course		

22. Literature

22.1. Required literature

Ord. No.	Author	Title	Publisher	Year
1.	Mirjana Popovska, Zlatanka Belazelkovska, Aneta Atanasovska Stojanovska, Vera Radojkova-Nikolovska and Kristina Mitikj	Oral Medicine and Pathology (Textbook)	Faculty of Dentistry – Skopje	2013
2.	Mirjana Popovska, Zlatanka Belazelkovska, Aneta Atanasovska Stojanovska, Vera Radojkova-Nikolovska and Kristina Mitikj	Oral Medicine and Pathology (Practicum)	Faculty of Dentistry – Skopje	2013
3.	Vangel Dimitrovski and Mirjana Popovska-Spasovska	Basics of oral propaedeutics (textbook)	Faculty of Dentistry – Skopje	2002

22.2. Additional literature

Ord. No.	Author	Title	Publisher	Year
1.	Mirjana Popovska-Spasovska, Vangel Dimitrovski and Aneta Atanasovska-Stojanovska	Differential diagnosis of oral lesions (atlas)	Faculty of Dentistry – Skopje	2004
2.	Dragoljub Djukanovic, Dragoljub Dzaic, Svetozar Stanic and Krsto Kovacevic	Oral soft tissue disease – Oral medicine (atlas)	Faculty of Dentistry – Belgrade	2001