DISCIPLINE SHEET

1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT: 2nd
1.4.	DISCIPLINE: PREVENTIVE DENTISTRY
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: PREVENTIVE DENTISTRY I				
2.2.	Discipline code: MD03S01EN				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure: Assoc. Prof. Dr. Cristian FUNIERU				
2.6.	Practical classes / seminar tenure: Teaching assistant Dr. Andreea MOLDOVEANU Teaching assistant Dr. Clara Ilinca BICA				
2.7. Year of study	III	2.8. Semester	V	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	5	from which:	3.2. lecture	2	3.3. practical class/ seminar	3
3.4. Total hours in the study curriculum	70	from which:	3.5. lecture	28	3.6. practical class/ seminar	42
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						28
Additional documentation activity in the library, on online platforms						11
Specific preparation activities for projects, practical classes, preparation of assignments, reports						13
Preparation for presentations or evaluations, preparation for the final examination						11
Tutoring activity						9
Other activities						8
3.7. Total hours of individual study						80
3.8. Total hours per semester (3.4.+3.7.)						150
3.9. Number of credits						5

4. Prerequisites (where appropriate)

4.1. curriculum	Knowledge of: - biochemistry - physiology/pathophysiology - microbiology - behavioral sciences - ergonomics
4.2. proficiencies	To know: - patient management - medical terms - dental office base structure

5. Conditions (where appropriate)

5.1. for lecture activity	- classroom - computer, video projector, blackboard - access to online education tools
5.2. for practical class/ seminar activity	- dental offices, seminar room - dental instruments and materials - devices and materials for the sterilization process

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
K1: Description of the routes for the infectious diseases are spread in dental practice	**S1:** Validate the links between the routes of transmission and patient receptivity, in dental practice	**RA1:** Developing a preventive behavior in relation to the dental treatments management and transmission of infectious diseases
K2: Identify and explain the context of using preventive measures for the infectious diseases' transmission in dental practice	**S2.1:** How to apply and use the PPE in dental practice (e.g. mask, medical glasses, visor, etc.) **S2.2:** Applying the surfaces cleaning and disinfection procedures in dental office **S2.3:** Execution and implementation of the dental instruments processing procedures	**RA2:** The ability of the auto-evaluation in relation to dental practice developed in a safety environment (no infectious risk)
K3: Identifying and classifying the preventive features of saliva	**S3:** Showing and applying preventive oral strategies for patients with salivary gland disfunction	**RA3:** Development of a critical spirit of how the questions should be made for the patients' history. Evaluation of their (students') own ability to find links between the causes and diagnosis of the salivary gland disfunctions

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	Understanding and learning the concepts of infection transmission, disinfection and sterilization in dental office

7.2. Specific objectives	**SPO1**: Transmission routes identifying and prevention of communicable diseases in dental practice (correlated to K1, S1 and RA1) **SPO2:** Describing rules of aseptic techniques in dentistry – the way of protecting patients and dental team from cross-contaminations (correlated to K2, S2.2, S2.3, RA2) **SPO3**: Applying general rules of disinfection and sterilization processes in dental practice (correlated to K2, S2.2, S2.3, RA2) **SPO4:** Identifying and applying the best PPE, depending on the disease route of spreading the type of dental treatment (correlated to K2, S2.1, RA2) **SPO5:** Description of symptoms and complications of patients suffering from salivary gland disfunctions (correlated to K3, S3, RA3)

8. Contents

8.1. Lecture	**Teaching methods**	**Observations**
1. Introduction in preventive dentistry	Interactive exposures of the proposed topics using media and power point presentations	
2. Infection control in dental office: introduction, definition, routes of transmission, antibiotic prophylaxis		
3. Infectious diseases in the dental practice (1): Human spongiform encephalopathy, SARS, Type A influenza, Tuberculosis, type A hepatitis		
4. Infectious diseases in the dental practice (2): Types B, C, D, E hepatitis; Unspecific viral infections – Herpesvirus diseases: varicella (chickenpox), herpes-zoster (shingles)		
5. Infectious diseases in the dental practice (3): Unspecific viral infections – Infection with Epstein-Barr, Cytomegalovirus, Herpes simplex viruses. Other infectious diseases (Rubella, Measles, Scarlet-fever, Mumps)		
6. Infectious diseases in the dental practice (4): Infection with Human Immunodeficiency Virus (HIV)		
7. Test		
8. Exposure control: PPE, principles of dental office designing, dental instrument processing procedures		
9. Test retake + recap		
10. Instruments wrapping; sterilization monitoring; disinfectants and disinfection methods; sterilization methods, surface decontamination protocols; dental unit waterlines aseptic protocols; medical waste management		
11. Saliva: composition, flow rate, roles, xerostomia (therapeutic management) (Part I)		
12. Saliva: composition, flow rate, roles, xerostomia (therapeutic management) (Part II)		
13. Dental plaque microorganisms involved in caries and/or periodontal disease pathology – soft dental deposits (Part I)		

14. Dental plaque microorganisms involved in caries and/or periodontal disease pathology – dental calculus; dental plaque disclosing; halitosis (Part II)		
8.2. Practical classes/ seminar	**Teaching methods**	**Observations**
1. Dental office: base structure, dental unit, surfaces (Spaulding classification), exposure control	Practical sessions (clinical or simulations – hands on), reports, power point presentations, video sessions	
2. Preparing dental office at the beginning, during and at the final of the working day; preparing patients and dental staff		
3. Preventing ross-infections: first video session		
4. Handcare principles and washing techniques		
5. PPE		
6. Dental instruments processing: disinfection, manual and ultrasonic cleaning		
7. Dental instruments rapping and sterilization methods		
8. Preventing cross-infections: second video session		
9. Patient assessment and examination; dental record		
10. Saliva: measuring flow rate, clinical and lab tests		
11. Xerostomia: clinical and lab data; treatment		
12. Dental plaque: definition, detection and disclosure		
13. Plaque disclosure – plaque scores (1)		
14. Recap		

Recent bibliography:

1. Mallonee LF, Boyd LD, Wyche CJ. Wilkin's Clinical Practice of the Dental Hygienist. 13th Edition. Wolters Kluwer, 2021; Jones & Bartlett Learning 5 Wall Street Burlington, MA, USA
2. Miller CH, Palenik CJ. Infection Control and Management of Hazardous Materials for the Dental Team. 6th Edition. 2017 Mosby, Missouri, USA.
3. John J. Textbook of Preventive and Community Dentistry. Third Edition, 2017. CBS Publishers & Distributors Pvt Ltd, CBS PLAZA, 4819/XI Prahlad Street, 24 Ansari Road, Daryaganj, New Delhi-110002, India

Journals:

1. Oral Health and Preventive Dentistry
2. International Journal of Dental Hygiene
3. Community Dentistry and Oral Epidemiology
4. Journal of Public Health Dentistry
5. Community Dental Health

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 elements containing in the proposed topics (lectures); the answers should not contain serious errors.	**Exam (editorial)**	**60%**

	B. Additional knowledge for mark 10 In-depth knowledge of the proposed topics (lectures), knowledge of all bibliography; Generally, correct answers to all questions.	**Test (editorial)**	**30%** Passing the tests with a minimum grade of 5 (in one of two attempts) is mandatory
9.5. Practical classes/ seminar	**A. Knowledge for mark 5:** Basic elements containing in the proposed topics (laboratory sessions); the answers should not contain serious errors. **B. Additional knowledge for mark 10** In-depth knowledge of the proposed topics (laboratory sessions), knowledge of all bibliography; Generally, correct answers to all questions	**Practical assessment – periodic seminars**	**10%**
9.5.1. Individual project (if any)	-	-	-
Minimum performance standard			
Basic knowledge of the infection control procedures in the dental settings			