DISCIPLINE SHEET

1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT
1.4.	DISCIPLINE ALLERGOLOGY AND CLINICAL IMMUNOLOGY
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: ALLERGOLOGY AND CLINICAL IMMUNOLOGY				
2.2.	Discipline code: MD04S12				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure: PROF. DR. BUMBACEA ROXANA SILVIA LECTURER DR. ALI SELDA				
2.6.	Practical classes / seminar tenure: ASST. PROF. DR. VINTILA MIHAELA RUXANDRA ASST. PROF. DR. CORCEA SABINA LOREDANA				
2.7. Year of study	IV	2.8. Semester	VIII	2.9. Evaluation (E/C/V)	C

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

I. University training						
3.1. Number of hours per week	4	from which:	3.2. lecture	2	3.3. practical class/ seminar	2
3.4. Total hours in the study curriculum	28	from which:	3.5. lecture	14	3.6. practical class/ seminar	14
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						12
Additional documentation activity in the library, on online platforms						4
Specific preparation activities for projects, practical classes, preparation of assignments, reports						2
Preparation for presentations or evaluations, preparation for the final examination						10
Tutoring activity						2
Other activities						2
3.7. Total hours of individual study						32
3.8. Total hours per semester (3.4.+3.7.)						60

3.9. Number of credits	2

4. Prerequisites (where appropriate)

4.1. curriculum	
4.2. proficiencies	

5. Conditions (where appropriate)

5.1. for lecture activity	Lecture hall (equipped with video projector, laptop, laser pointer, power extension cord and microphone)
5.2. for practical class/ seminar activity	Lecture halls (equipped with video projector, laptop, laser pointer, power extension cord and microphone)/ hospital wards

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
The student is capable to recognize, analyze, and interpret pathological mechanisms, clinical and laboratory manifestations, and the diagnostic and therapeutic principles relevant to immune-allergic diseases.	The student integrates, adapts, and appropriately applies diagnostic methods and personalized therapeutic techniques in the management of patients with immune-allergic diseases.	The student coordinates, integrates, and contributes, under appropriate supervision, to therapeutic and care plans for patients with immune-allergic diseases.

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	Understanding and applying diagnostic and therapeutic principles in the main allergic conditions relevant to dental medicine. Diagnosis and initial management of allergic emergencies.
7.2. Specific objectives	Application of ethical and professional conduct during allergic reactions. Implementation of preventive and protective measures for patients with an allergic history. Effective communication with the patient and with interdisciplinary professionals in critical situations.

8. Contents

8.1. Lecture	Teaching methods	Observations
Lecture 1. Anaphylaxis – Part I: general data, etiology, pathophysiological mechanisms,	All lectures are delivered orally, with electronic course materials (PowerPoint) projected using a	

clinical presentation, positive and differential diagnosis.	video projector; the lectures are continuously updated.	
Lecture 2. Anaphylaxis – Part II: Non-pharmacological and pharmacological management		
Lecture 3. Diagnostic principles in allergic diseases.		
Lecture 4. Urticaria and Angioedema – general data, etiology, pathophysiological mechanisms, clinical presentation, positive and differential diagnosis, therapeutic approach.		
Lecture 5. Asthma and Allergic Rhinitis – general data, pathophysiological mechanisms, clinical presentation, positive and differential diagnosis, therapeutic approach.		
Lecture 6. Allergic and irritant contact dermatitis - general data, etiology, pathophysiological mechanisms, clinical presentation, positive and differential diagnosis, therapeutic approach.		
Lecture 7. Drug-Induced Hypersensitivity Reactions – general data, etiology, pathophysiological mechanisms, clinical presentation, positive and differential diagnosis, therapeutic approach.		

Recent bibliography:

1. Lecture Notes in Allergology and Clinical Immunology (Microsoft Word format).
2. Allergy Essentials. O'Hehir, Robyn E.; Holgate, Stephen T.; Khurana Hershey, Gurjit K. et al. 2nd ed. Philadelphia PA USA: Elsevier, 2022.
3. Cardona V, Ansotegui IJ, Ebisawa M, et al. World allergy organization anaphylaxis guidance 2020. World Allergy Organ J. 2020;13(10):100472.
4. Zuberbier T, et al. The international EAACI/GA²LEN/EuroGuiDerm/APAAACI guideline for the definition, classification, diagnosis, and management of urticaria. Allergy. 2022 Mar;77(3):734-766.

5. Levy, M.L., Bacharier, L.B., Bateman, E. et al. Key recommendations for primary care from the 2022 Global Initiative for Asthma (GINA) update. npj Prim. Care Respir. Med. 33, 7 (2023).
6. Brockow K, Wurpts G, Trautmann A, et al. Guideline for allergological diagnosis of drug hypersensitivity reactions: S2k Guideline of the German Society for Allergology and Clinical Immunology (DGAKI) in cooperation with the German Dermatological Society (DDG), the Association of German Allergologists (ÄDA), the German Society for Pediatric Allergology (GPA), the German Contact Dermatitis Research Group (DKG), the German Society for Pneumology (DGP), the German Society of Otorhinolaryngology, Head and Neck Surgery, the Austrian Society of Allergology and Immunology (ÖGAI), the Austrian Society of Dermatology and Venereology (ÖGDV), the German Academy of Allergology and Environmental Medicine (DAAU), and the German Documentation Center for Severe Skin Reactions (dZh). Allergol Select. 2023;7:122-139.

8.2. Practical classes/ seminar	**Teaching methods**	**Observations**
PC 1. Allergy History Technique	Oral presentations with electronic support (PowerPoint), illustrated through demonstrative materials and clinical cases.	
PC 2. Concepts of "Good Clinical Practice" (GCP) and "Good Laboratory Practice" (GLP)."		
PC 3. In Vivo Allergy Skin Tests (prick, intradermal, patch) and In Vitro Tests.		
PC 4. Drug Provocation Tests.		
PC 5. Emergency medications for allergic diseases and training on How to Use the EpiPen.		
PC 6. Inhaled therapy in asthma. General aspects of allergen immunotherapy.		
PC 7. Clinical cases		

Recent bibliography:

1. Allergy Essentials. O'Hehir, Robyn E.; Holgate, Stephen T.; Khurana Hershey, Gurjit K. et al. 2nd ed. Philadelphia PA USA: Elsevier, 2022.
2. Ansotegui IJ, et al . IgE allergy diagnostics and other relevant tests in allergy, a World Allergy Organization position paper. World Allergy Organ J. 2020 Feb 25;13(2):100080.
3. Birch K, Pearson-Shaver AL. Allergy Testing. [Updated 2023 Jul 24]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing;
4. Barbaud A, Garvey LH, Torres M, Laguna JJ, Arcolaci A, Bonadonna P, Scherer Hofmeier K, Chiriac AM, Cernadas J, Caubet JC, Brockow K. EAACI/ENDA position paper on drug provocation testing. Allergy. 2024 Mar;79(3):565-579.

5. Romano A, et al. Towards a more precise diagnosis of hypersensitivity to beta-lactams - an EAACI position paper. Allergy. 2020 Jun;75(6):1300-1315.
6. Spirometry: step by step". V.C. Moore. *Breathe* 2012; 8: 232-240. Breathe (Sheff). 2022 Sep;18(3):115217.
7. Stanojevic S, et al. ERS/ATS technical standard on interpretive strategies for routine lung function tests. Eur Respir J. 2022 Jul 13;60(1):2101499.

9. Assessment

Activity type	**9.1. Evaluation criteria**	**9.2. Evaluation methods**	**9.3. Percentage of final grade**
9.4. Lecture	- Accuracy and precision of theoretical knowledge. - Ability to integrate and correlate pathophysiological mechanisms with the clinical presentation and therapeutic principles. - Coherence and clarity of reasoning in written responses. - Appropriate and consistent use of specialized medical terminology.	Written examination with 30 single-choice questions and 3 essay-type questions.	60%
9.5. Practical classes/ seminar	- Accuracy of diagnostic and therapeutic reasoning. - Ability to apply theoretical knowledge in solving clinical cases. - Ability to correlate clinical data with investigations and therapeutic management.	Oral examination with a clinical case including 4 questions related to diagnosis and treatment.	40%

9.5.1. Individual project (if any)			

Minimum performance standard

- Acquisition of skills in the positive diagnosis of anaphylaxis and the use of adrenaline in its treatment.
- Acquisition of skills in the diagnosis and treatment of angioedema with severe localization.
- Acquisition of skills in the positive diagnosis of an asthma attack and the use of a Beta-2 agonist inhaler in asthma crisis.
- Knowledge of the indications for allergological skin testing to dental anesthetics.
- Acquisition of skills in the positive diagnosis of contact dermatitis.