



# MEDICAL UNIVERSITY - VARNA

## "Prof. dr Paraskev Stoyanov"

### FACULTY OF DENTAL MEDICINE

Approved with protocol No. 12/2025

Approve:  
DEAN:  
/Assoc.Prof.G. Papanchev, DMD, PhD/



## CURRICULUM

in

"Periodontology  
and diseases of the oral mucosa"

Speciality "DENTAL MEDICINE"

Educational qualification degree "MASTER"

Professional qualification "DOCTOR OF DENTAL MEDICINE"

| Education forms               | Semester             | Horarium-acad.<br>hours per week | Horarium-acad.<br>hours totally |
|-------------------------------|----------------------|----------------------------------|---------------------------------|
| Lectures                      | VI, VII, VIII,<br>IX | 1/1/2/2                          | 90                              |
| Practical exercises           | VI, VII, VIII,<br>IX | 2/2/2/2                          | 120                             |
| Total hours                   |                      |                                  | 210                             |
| Extracurricular<br>employment |                      |                                  | 210                             |
| Forms of control              | Ongoing<br>control   |                                  | Exam – IX semester              |
| Credits ( ECTS )              |                      | 4+2+4+4                          | 14                              |

Abstact

The training in Periodontology aims to familiarize students with the fundamental methods of diagnosis, treatment, and prevention of periodontal diseases. To achieve this, students undergo both simulation-based and clinical training courses, during which they become acquainted with the clinical morphology of the periodontium, the methods of examination of patients with periodontal diseases, the etiology and pathogenesis of periodontal disorders, as well as the principles of their treatment and prevention.

The practical component of the training is designed to develop students' core competencies in the diagnosis and management of the studied nosological entities.

### **Forms of Instruction, Assessment, and Evaluation**

**Forms of assessment:** continuous assessment, seminar participation, colloquium, test, practical examination, and theoretical examination.

**Forms and methods of instruction:** lectures, seminars, discussions, case-based learning, phantom exercises, practical training sessions, and multimedia presentations.

## **Assessment Criteria**

**Grading System:** comprehensive assessment

1. Evaluation of the student's active participation during practical training sessions
2. Colloquium
3. Practical examination
4. Final examination result during the examination session

**Assessment Components:** comprehensive

1. Clinical and paraclinical diagnostics
2. Clinical case management and problem-solving
3. Test assessment
4. Final examination result

Upon completion of the course, students are expected to acquire the following knowledge, skills, and competencies:

- **Knowledge** of the clinical morphology of the periodontium, the etiology and pathogenesis of periodontal diseases, methods for examining patients with periodontal diseases, as well as approaches to their treatment and prevention.
- **Skills** in the comprehensive diagnosis, treatment, and prevention of periodontal diseases.
- **Competencies** related to the etiology and pathogenesis of periodontal diseases, methods of patient examination, and the treatment and prevention of periodontal disorders.

## **Thematic Plan of Lectures and Practical Training**

Lecture Program:

| <b>Lectures in Periodontology for III-Year Students –VI Semester</b>    |      |
|-------------------------------------------------------------------------|------|
| 1. Treatment Planning for Patients with Periodontal Diseases            | 1 ч. |
| 2. Diagnosis and Prognosis. Treatment sequence.                         | 1 ч. |
| 3. Systemic Phase                                                       | 1 ч. |
| 4. Hygienic Phase. Motivational Interview.                              | 1 ч. |
| 5. Mechanical Supragingival Plaque control                              | 1 ч. |
| 6. Chemical Supragingival Plaque control                                | 1 ч. |
| 7. Non-Surgical Therapy – Part I                                        | 1 ч. |
| 8. Non-Surgical Therapy – Part II                                       | 1 ч. |
| 9. Non-Surgical Therapy – Part III                                      | 1 ч. |
| 10. Access flap therapy – Part I                                        | 1 ч. |
| 11. Access flap therapy – Part II                                       | 1 ч. |
| 12. Treatment of furcation involved teeth                               | 1 ч. |
| 13. Endodontic–Periodontal Lesions                                      | 1 ч. |
| 14. Antibiotics in Periodontal Therapy – Systemic Antimicrobial Therapy | 1 ч. |
| 15. Antibiotics in Periodontal Therapy – Local Antimicrobial Therapy    | 1 ч. |

| <b>Lectures in Periodontology for IV-Year Students – VII Semester</b> |      |
|-----------------------------------------------------------------------|------|
| 1. • Clinical Morphology of the Periodontium                          | 1 ч. |
| 2. • Macroscopic and Microscopic Anatomy of the Gingiva               | 1 ч. |
| 3. • Anatomy of the Periodontal Ligament                              | 1 ч. |
| 4. • Anatomy of Cementum                                              | 1 ч. |

|                                                           |      |
|-----------------------------------------------------------|------|
| 5. • Clinical Morphology of Alveolar Bone                 | 1 ч. |
| 6. • Clinical Morphology of the Edentulous Alveolar Ridge | 1 ч. |
| 7. • Periodontal Proprioception and Osseoperception       | 1 ч. |
| 8. • Epidemiology of Periodontal Diseases                 | 1 ч. |
| 9. • Oral Biofilms                                        | 1 ч. |
| 10. • Dental Calculus                                     | 1 ч. |
| 11. • Periodontal Infection                               | 1 ч. |
| 12. • Pathogenesis of Gingivitis                          | 1 ч. |
| 13. • Pathogenesis of Periodontitis                       | 1 ч. |
| 14. • Modifying Factors in Periodontal Disease            | 1 ч. |
| 15. • Occlusal Trauma and the Periodontal Tissues         | 1 ч. |

| <b>Lectures in Periodontology for IV Year Students - VIII Semester</b>                     |      |
|--------------------------------------------------------------------------------------------|------|
| 1. Non-Plaque-Induced Inflammatory Gingival Lesions of Bacterial, Viral, and Fungal Origin | 2 ч. |
| 2. Non-Plaque-Induced Inflammatory Gingival Lesions of Genetic and Systemic Origin         | 2 ч. |
| 3. Non-Plaque-Induced Inflammatory Gingival Lesions of Traumatic Origin                    | 2 ч. |
| 4. Plaque-Induced Gingival Diseases Caused Solely by Dental Plaque Biofilm                 | 2 ч. |
| 5. Plaque-Induced Gingival Diseases Modified by Systemic Risk Factors                      | 2 ч. |

|                                                                     |      |
|---------------------------------------------------------------------|------|
| 6. Periodontitis: Etiology, Pathogenesis, and Clinical Presentation | 2 ч. |
| 7. Periodontitis: Staging and Grading                               | 2 ч. |
| 8. Periodontitis: Diagnosis, Prognosis, and Treatment               | 2 ч. |
| 9. Necrotizing Periodontal Diseases                                 | 2 ч. |
| 10. Periodontal Disease as a Risk Factor for Systemic Diseases      | 2 ч. |
| 11. Periodontal Abscess                                             | 2 ч. |
| 12. Endo-periodontal lesions                                        | 2 ч. |
| 13. Concepts in Periodontal Regeneration                            | 2 ч. |
| 14. Examination of the Patient with Periodontal Diseases            | 2 ч. |
| 15. Periodontal risk assesment                                      | 2ч.  |

| <b>Lectures in Periodontology for V-Year Students – IX Semester</b>          |     |
|------------------------------------------------------------------------------|-----|
| 1.Regenerative therapy.Guided tissue regeneration – principles               | 2 ч |
| 2.Regenerative therapy – barrier membranes and tissue-regenerative Materials | 2 ч |
| 2.Regenerative therapy – methods and techniques                              | 2 ч |
| 3.Regenerative Therapy Using Enamel Matrix Proteins                          | 2 ч |
| 4. Healing process after guided tissue regeneration                          | 2 ч |

|                                                                                                                                                                         |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 5.Mucogingival therapy and plastic periodontal surgery -<br>ods for root coverage using rotative flaps.                                                                 | 2 ч  |
| 6.Mucogingival therapy and plastic periodontal surgery -<br>ods for root coverage using rotative flaps in combination with barrier<br>branes or enamel matrix proteins. | 2 ч  |
| 7.Mucogingival therapy and plastic periodontal surgery -<br>ods for root coverage using rotative flaps in combination with<br>elium graft.                              | 2 ч  |
| 8.Mucogingival therapy and plastic periodontal surgery -<br>ods for root coverage using rotative flaps in combination with<br>pithelium graft.                          | 2 ч  |
| 9. Healing process after root coverage.                                                                                                                                 | 2 ч. |
| 10.Mucogingival therapy and plastic periodontal surgery –<br>methods of gingival augmentation.                                                                          | 2 ч  |
| 11.Surgical treatment of aberrant frenum attachments and<br>gingival deformities.                                                                                       | 2 ч  |
| 12.Пародонтална пластична микрохирургия                                                                                                                                 | 2 ч  |
| 13.Supportive therapy                                                                                                                                                   | 3 ч  |
| 15.Stabilization and Splinting of Teeth with Compromised<br>Periodontal Support                                                                                         | 2 ч  |

## Simulation Exercises in Periodontology

Year III – Semester VI

15 practical sessions, 2 academic hours each

### Session 1

**Topic:** Morphology of the Periodontium  
**Practical Training on Simulation Models**

## **Session 2**

**Topic:** Diagnosis of Periodontal Diseases. Recording the Periodontal Status: Probing Depth, Level of the gingival margin, Clinical Attachment Level, Attachment Loss, and Attachment Gain. Furcation Assessment, Measurement of the Width of Attached Gingiva, and Tooth Mobility.

**Diagnostic Instruments:** Periodontal Probes and Their Application in Diagnosis.  
**Practical Training on Simulation Models**

## **Session 3**

**Topic:** Periodontal Charting  
**Practical Training on Simulation Models**

## **Session 4**

**Topic:** Diagnosis and Prognosis of Periodontal Diseases. Treatment Planning and Treatment Sequence.

**Practical Training on Simulation Models**

## **Session 5**

**Topic:** Supragingival Scaling Using Powered Instruments  
**Practical Training on Simulation Models**

## **Session 6**

**Topic:** Subgingival Debridement of Anterior Teeth. Instrumentation and Sharpening Techniques.

**Practical Training on Simulation Models**

## **Session 7**

**Topic:** Subgingival Debridement of Premolars and Molars  
**Practical Training on Simulation Models**

## **Session 8**

**Topic:** Supragingival Scaling and Subgingival Debridement of an Entire Segment with Completion of a Periodontal Chart.

**Practical Training on Simulation Models**

## **Session 9**

**Topic:** Supragingival Scaling and Subgingival Debridement of an Entire Segment with Completion of a Periodontal Chart.

**Practical Training on Simulation Models**

## **Session 10**

**Topic:** Non-Surgical Periodontal Therapy Including Diagnosis and Treatment Planning. Hygiene Phase. Full-Mouth Treatment on Phantom Models.

**Practical Training on Simulation Models**

## **Session 11**

**Topic:** Non-Surgical Periodontal Therapy Including Diagnosis and Treatment Planning. Hygiene Phase. Full-Mouth Treatment on Phantom Models.

**Practical Training on Simulation Models**

## **Session 12**

**Topic:** Non-Surgical Periodontal Therapy Including Diagnosis and Treatment Planning. Hygiene Phase. Full-Mouth Treatment on Phantom Models.

**Practical Training on Simulation Models**

## **Session 13**

**Topic:** Flap Reflection and Suturing Techniques

**Practical Training on Simulation Models**

## **Session 14**

**Topic:** Surgical Access Procedures – Open Flap Debridement

**Practical Training on Simulation Models**

## **Session 15**

**Topic:** Guided Tissue Regeneration of a Single Tooth

**Practical Training on Simulation Models**

**Assessment:** Evaluation of students' performance on a complete dental segment.

# **Clinical Practical Training in Periodontology**

**Year IV – Semester VII**

**15 practical sessions, 2 academic hours each**

**Session 1**

**Colloquium:** Morphology of the Periodontium, Hygiene Phase, Periodontal Status Assessment, Manual and Powered Instrumentation.

**Session 2**

**Clinical Practical Training:** Patient Management.

**Session 3**

**Seminar:** Plaque-Induced Gingivitis – Clinical Presentation, Differential Diagnosis, Diagnosis, Prognosis, and Disease Progression. Planning of Gingival Therapy. Hygiene Phase.  
**Clinical Practical Training:** Patient Management.

**Session 4**

**Clinical Practical Training:** Patient Management.

**Session 5**

**Seminar:** Non-Plaque-Induced Gingivitis – Clinical Presentation, Differential Diagnosis, Diagnosis, Treatment, Prognosis, and Disease Progression.  
**Clinical Practical Training:** Patient Management.

**Session 6**

**Clinical Practical Training:** Patient Management.

**Session 7**

**Clinical Practical Training:** Patient Management.

**Session 8**

**Seminar:** Periodontitis – Clinical Presentation, Differential Diagnosis, Diagnosis, Prognosis, and Disease Progression.  
**Clinical Practical Training:** Patient Management.

**Session 9**

**Clinical Practical Training:** Patient Management.

### **Session 10**

**Seminar:** Periodontitis Associated with Systemic Diseases – Clinical Presentation, Differential Diagnosis, Diagnosis, Prognosis, and Disease Progression.  
**Clinical Practical Training:** Patient Management.

### **Session 11**

**Clinical Practical Training:** Patient Management.

### **Session 12**

**Seminar:** Treatment of Periodontal Diseases – Periodontal Treatment Planning and the Hygiene Phase.  
**Clinical Practical Training:** Patient Management.

### **Session 13**

**Clinical Practical Training:** Patient Management.

### **Session 14**

**Clinical Practical Training:** Patient Management.

### **Session 15**

**Clinical Practical Training:** Patient Management.

## **Clinical Practical Training in Periodontology**

**Year IV – Semester VIII**

**15 practical sessions, 2 academic hours each**

### **Session 1**

**Clinical Practical Training:** Patient Management

### **Session 2**

**Clinical Practical Training:** Patient Management

### **Session 3**

**Clinical Practical Training:** Patient Management

### **Session 4**

**Clinical Practical Training:** Patient Management

### **Session 5**

**Seminar:** Mechanical and Chemical Control of Supragingival Plaque  
**Clinical Practical Training:** Patient Management

### **Session 6**

**Clinical Practical Training:** Patient Management

### **Session 7**

**Clinical Practical Training:** Patient Management

### **Session 8**

**Clinical Practical Training:** Patient Management

### **Session 9**

**Clinical Practical Training:** Patient Management

### **Session 10**

**Clinical Practical Training:** Patient Management

### **Session 11**

**Seminar:** Pharmacological Therapy of Periodontal Diseases: Local and Systemic Administration; Prescription Writing  
**Clinical Practical Training:** Patient Management

**Session 12**

**Clinical Practical Training:** Patient Management

**Session 13**

**Clinical Practical Training:** Patient Management

**Session 14**

**Clinical Practical Training:** Patient Management

**Session 15**

**Clinical Practical Training:** Patient Management\*\*. \*\*

## **Clinical Practical Training in Periodontology**

**Year V – Semester IX**

**15 practical sessions, 2 academic hours each**

**Session 1**

**Clinical Practical Training:** Patient Management

**Session 2**

**Clinical Practical Training:** Patient Management

**Session 3**

**Seminar:** Regenerative Therapy – Guided Tissue Regeneration and Enamel Matrix Proteins  
**Clinical Practical Training:** Patient Management

**Session 4**

**Clinical Practical Training:** Patient Management

## **Session 5**

**Clinical Practical Training:** Patient Management

## **Session 6**

**Clinical Practical Training:** Patient Management

## **Session 7**

**Seminar:** Mucogingival Therapy and Periodontal Plastic Surgery – Methods for the Treatment of Gingival Recession

**Clinical Practical Training:** Patient Management

## **Session 8**

**Clinical Practical Training:** Patient Management

## **Session 9**

**Clinical Practical Training:** Patient Management

## **Session 10**

**Clinical Practical Training:** Patient Management

## **Session 11**

**Clinical Practical Training:** Patient Management

## **Session 12**

**Clinical Practical Training:** Patient Management

## **Session 13**

**Practical Examination**

## **Session 14**

**Practical Examination**

## **Session 15**

**Practical Examination**

## **Literature**

Recommended basic self-study tool:

Clinical Periodontology and Implant Dentistry, 2 Volumes, 5th Edition  
by Jan Lindhe, Niklaus P. Lang, Thorkild Karring  
ISBN 978-1-4051-6099-5

January 2008, Wiley-Blackwell

Hardcover, 1448 pages

Electronic version:

Clinical Periodontology and Implant Dentistry, 5th Edition  
by Jan Lindhe, Niklaus P. Lang, Thorkild Karring  
ISBN 978-1-1183-5561-9

May 2012, Wiley-Blackwell

Wiley E-Text, 1448 pages

5. Clinical Morphology of the Periodontium: Macroscopic and Microscopic Anatomy of the Gingiva
6. Anatomy of the Periodontal Ligament
7. Anatomy of Cementum
8. Clinical Morphology of Alveolar Bone
9. Periodontal Proprioception and Osseoperception
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11. Oral Biofilms and Dental Calculus
12. Periodontal Infection
13. Pathogenesis of Gingivitis
14. Pathogenesis of Periodontitis
15. Modifying Factors in Periodontal Disease
16. Occlusal Trauma and the Periodontal Tissues
17. Non-Plaque-Induced Inflammatory Gingival Lesions of Bacterial, Viral, and Fungal Origin
18. Non-Plaque-Induced Inflammatory Gingival Lesions of Genetic and Systemic Origin
19. Non-Plaque-Induced Inflammatory Gingival Lesions of Traumatic Origin
20. Plaque-Induced Gingival Diseases: Plaque-Induced Gingivitis and Plaque-Retentive Factors
21. Plaque-Induced Gingival Diseases: Plaque-Induced Gingivitis Modified by Sex Hormones
22. Plaque-Induced Gingival Diseases: Plaque-Induced Gingivitis Associated with Systemic Diseases
23. Plaque-Induced Gingival Diseases: Plaque-Induced Gingivitis Modified by Systemic Medications
24. Periodontitis: Classification of Periodontal Diseases
25. Periodontitis: Staging and Disease Progression
26. Periodontitis: Diagnosis, Prognosis, and Treatment
27. Necrotizing Periodontal Diseases
28. Periodontal Manifestations of Systemic Diseases and Conditions
29. Periodontal Abscess
30. Examination of the Patient with Periodontal Diseases
31. Radiographic Methods of Examination in Patients with Periodontal Diseases
32. Treatment Planning for Patients with Periodontal Diseases
33. Diagnosis and Prognosis
34. Sequence of Periodontal Treatment
35. Systemic Phase of Periodontal Therapy
36. Hygiene Phase and Motivational Interviewing
37. Mechanical Control of Supragingival Plaque
38. Chemical Control of Supragingival Plaque

39. Non-Surgical Periodontal Therapy: Manual and Powered Instrumentation
40. Non-Surgical Periodontal Therapy: Instrumentation Techniques for Debridement
41. Non-Surgical Periodontal Therapy
42. Gingivectomy and Gingivoplasty
43. Surgical access procedures – ENAP, apically positioned flap, modified Widman technique - Ramfjord technique.
44. Management of Furcation Involvement
45. Endodontic–Periodontal Lesions
46. Antibiotics in Periodontal Therapy
47. Regenerative Therapy: Principles of Guided Tissue Regeneration
48. Guided Tissue Regeneration: Barrier Membranes
49. Guided Tissue Regeneration: Tissue-Regenerative Materials
50. Guided Tissue Regeneration: Methods and Techniques
51. Regenerative Therapy Using Enamel Matrix Proteins
52. Mucogingival Therapy and Periodontal Plastic Surgery: Methods for Gingival Augmentation
53. Mucogingival Therapy and Periodontal Plastic Surgery: Root Coverage Procedures Using Rotational Flaps
54. Mucogingival Therapy and Periodontal Plastic Surgery: Root Coverage Procedures Using Grafts
55. Surgical Management of Aberrant Frenula and Mucogingival Attachments
56. Supportive Periodontal Therapy (Maintenance Phase)
57. Stabilization and Splinting of Teeth with Compromised Periodontal Support

**Протокол от:**

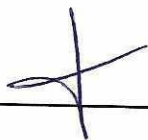
**Катедрен съвет № 135... дата: 21.05.2016г.**

**Факултетен съвет № 01/... дата: 24.05.2016г.**

**Изготвил програмата:**

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Ръководител катедра:



/проф. д-р Борислав Чаушев, д.м./