



DISCIPLINE SHEET

1. Study programme

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| 1.1. | "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST |
| 1.2. | FACULTY OF DENTISTRY |
| 1.3. | DEPARTMENT DENTISTRY I |
| 1.4. | DISCIPLINE PROSTHODONTICS |
| 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

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|--------------------|--|---------------|----------|-------------------------|----------|
| 2.1. | Discipline name according to the study curriculum: TEMPORO-MANDIBULAR DISORDERS | | | | |
| 2.2. | Discipline code: MD03OP17EN | | | | |
| 2.3. | Discipline type (FD/SD/CD): NOT THE CASE | | | | |
| 2.4. | Discipline optionality (COD/ED/FAD): ED | | | | |
| 2.5. | Lectures tenure: Assoc. Prof. Cristina Bodnar | | | | |
| 2.6. | Practical classes / seminar tenure: Assoc. Prof. Cristina Bodnar | | | | |
| 2.7. Year of study | III | 2.8. Semester | V | 2.9. Evaluation (E/C/V) | C |

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

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|---|-----------|-------------|--------------|-----------|-------------------------------|--------------|
| I. University training | | | | | | |
| 3.1. Number of hours per week | 2 | from which: | 3.2. lecture | 1 | 3.3. practical class/ seminar | 1 |
| 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 | | | | | | 20 |
| Additional documentation activity in the library, on online platforms | | | | | | 2 |
| Specific preparation activities for projects, practical classes, preparation of assignments, reports | | | | | | 8 |
| Preparation for presentations or evaluations, preparation for the final examination | | | | | | 2 |
| Tutoring activity | | | | | | - |
| Other activities | | | | | | - |
| 3.7. Total hours of individual study | | | | | | 32 |
| 3.8. Total hours per semester (3.4.+3.7.) | | | | | | 60 |

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|-------------------------------|----------|
| 3.9. Number of credits | 2 |
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4. Prerequisites (where appropriate)

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| 4.1. curriculum | Knowledge of the morphology of permanent dental arches and the notions of dental occlusion from the 3 rd year Prosthodontics course. |
| 4.2. proficiencies | - |

5. Conditions (where appropriate)

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| 5.1. for lecture activity | Amphitheater is equipped with projection system. Punctuality at the start time of the course. Decent attire and mobile phones turned off. |
| 5.2. for practical class/ seminar activity | - |

6. Learning outcomes*

| Knowledge | Skills | Responsibility and autonomy |
|--|--|--|
| Knowledge about the morpho-physiology and pathology of the temporomandibular joint and masticatory muscles | Application of the conventional and digital occlusal examination protocol | Analysis and acknowledgement of clinical situations that require interdisciplinary collaboration (prosthodontics, ENT, rheumatology, neurology, psychiatry, psychology etc). |
| Notions related to occlusal splints | Application of modern techniques for clinical and paraclinical examination of the patient with temporomandibular disorders | |

7. Discipline objectives (correlated with learning outcomes)

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| 7.1. General objective | Acquiring knowledge to understand the aspects related to the morpho-functionality of the masticatory system, in the context of temporomandibular disorders and orofacial pain. |
| 7.2. Specific objectives | <ol style="list-style-type: none"> 1. Mastering the most modern techniques for clinical and paraclinical examination of patients with temporomandibular disorders. 2. Mastering the protocol for instrumental analysis of mandibular movements. 3. Knowing the steps necessary for mounting dental models in the articulator (conventional; virtual) and occlusal analysis (conventional; digital). 4. Accumulating knowledge regarding the indications, types, design and manufacture of occlusal splints. 5. Stimulating the ability to implement the knowledge acquired in dental practice. 6. Maintaining interest in progress of scientific research in the field of dentistry and interdisciplinary collaboration. |

8. Contents

| 8.1. Lecture | Teaching methods | Observations |
|--|--|--------------|
| 1. Temporomandibular disorders – general concepts | Interactive presentation materials, PowerPoint presentations and educational films | |
| 2. Clinical examination of patients with temporomandibular disorders. The DC/TMD protocol | | |
| DC/TMD protocol questionnaires for the evaluation of patients with temporomandibular disorders | | |
| 4. Decision tree for the diagnosis of pain and other temporomandibular disorders | | |
| 5. Paraclinical investigations for the evaluation of patients with temporomandibular disorders | | |
| 6. Occlusal splints, dental articulators | | |
| 7. Occlusal equilibration and the management of problems in dental patients | | |
| Recent bibliography: | | |
| <p>1. Rosenstiel S, Land M, Walter R, Contemporary Fixed Prosthodontics, Sixth Edition, Elsevier, 2023.</p> <p>2. Ziad Al-Ani, R.Y., Practical procedures in dental occlusion. First ed. 2022: John Wiley & Sons.</p> <p>3. Zonnenberg, A.J.J., J.C. Turp, and C.S. Greene, Centric relation critically revisited-What are the clinical implications? J Oral Rehabil, 2021. 48(9): p. 1050-1055.</p> <p>4. Lee, S.K.Y., T.J. Salinas, and J.P. Wiens, The Effect of Patient Specific Factors on Occlusal Forces Generated: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 52-60.</p> <p>5. Kattadiyil, M.T., A.A. Alzaid, and S.D. Campbell, What Materials and Reproducible Techniques May Be Used in Recording Centric Relation? Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 34-42.</p> <p>6. Goodacre, C.J. and B.J. Goodacre, What Occlusal Scheme Should Be Used with Removable Partial Dentures? J Prosthodont, 2021. 30(S1): p. 78-83.</p> <p>7. Goldstein, G. and J.P. Wiens, The Occlusion Project, Evidence for its Future. J Prosthodont, 2021. 30(S1): p. 3-4.</p> <p>8. Goldstein, G., Y. Kapadia, and S. Campbell, Complete Denture Occlusion: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 72-77.</p> <p>9. Goldstein, G., C. Goodacre, and K. MacGregor, Occlusal Vertical Dimension: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 12-19.</p> <p>10. Goldstein, G. and C. Goodacre, Frankfort Mandibular Plane Angle: Critically Appraised Topic (CAT). J Prosthodont, 2021. 30(S1): p. 61-63.</p> <p>11. Goldstein, G., L. DeSantis, and C. Goodacre, Bruxism: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 91-101.</p> <p>12. Diagnostic Criteria for Temporomandibular Disorders https://ubwp.buffalo.edu/rdc-tmdinternational/tmd-assessmentdiagnosis/dc-tmd/</p> | | |

| 8.2. Practical classes/ seminar | Teaching methods | Observations |
|---|--|--------------|
| 1. Screening for temporomandibular disorders during routine dental examination | Interactive presentation materials, PowerPoint presentations and educational films | |
| 2. Clinical examination of the masticatory muscles | | |
| 3. Clinical examination of the TMJ | | |
| 4. Examination of mandibular mobility | | |
| 5. Analysis of radiographs, CBCT, and MRI examinations | | |
| 6. Diagnosis of demonstrative cases with temporomandibular pathology | | |
| 7. Analysis of mandibular kinesiographs | | |
| Recent bibliography: <ol style="list-style-type: none"> 1. Rosenstiel S, Land M, Walter R, Contemporary Fixed Prosthodontics, Sixth Edition, Elsevier, 2023. 2. Ziad Al-Ani, R.Y., Practical procedures in dental occlusion. First ed. 2022: John Wiley & Sons. 3. Zonnenberg, A.J.J., J.C. Turp, and C.S. Greene, Centric relation critically revisited-What are the clinical implications? J Oral Rehabil, 2021. 48(9): p. 1050-1055. 4. Lee, S.K.Y., T.J. Salinas, and J.P. Wiens, The Effect of Patient Specific Factors on Occlusal Forces Generated: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 52-60. 5. Kattadiyil, M.T., A.A. Alzaid, and S.D. Campbell, What Materials and Reproducible Techniques May Be Used in Recording Centric Relation? Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 34-42. 6. Goodacre, C.J. and B.J. Goodacre, What Occlusal Scheme Should Be Used with Removable Partial Dentures? J Prosthodont, 2021. 30(S1): p. 78-83. 7. Goldstein, G. and J.P. Wiens, The Occlusion Project, Evidence for its Future. J Prosthodont, 2021. 30(S1): p. 3-4. 8. Goldstein, G., Y. Kapadia, and S. Campbell, Complete Denture Occlusion: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 72-77. 9. Goldstein, G., C. Goodacre, and K. MacGregor, Occlusal Vertical Dimension: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 12-19. 10. Goldstein, G. and C. Goodacre, Frankfort Mandibular Plane Angle: Critically Appraised Topic (CAT). J Prosthodont, 2021. 30(S1): p. 61-63. 11. Goldstein, G., L. DeSantis, and C. Goodacre, Bruxism: Best Evidence Consensus Statement. J Prosthodont, 2021. 30(S1): p. 91-101. 12. Diagnostic Criteria for Temporomandibular Disorders https://ubwp.buffalo.edu/rdc-tmdinternational/tmd-assessmentdiagnosis/dc-tmd/ | | |

9. Assessment

| Activity type | 9.1. Evaluation criteria | 9.2. Evaluation methods | 9.3. Percentage of final grade |
|--|--|---|--------------------------------|
| 9.4. Lecture | <p>Requirements for mark 5: Knowledge and application of the DC/TMD protocol for pain diagnosis.</p> <p>Requirements for grade 10: Knowledge of modern clinical and paraclinical methods of diagnosis and treatment for temporomandibular disorders.</p> | Colloquium: oral examination based on the application of the DC/TMD protocol on a clinical case | 100% |
| 9.5. Practical classes/ seminar | <ul style="list-style-type: none"> - Correctness of acquired knowledge and ability to correlate - Correct use of the terminology | Practical evaluation | Pass/Fail |
| 9.5.1. Individual project (if any) | - | - | - |
| Minimum performance standard | | | |
| Knowledge of the DC/TMD protocol for evaluating patients with temporomandibular disorders. | | | |