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|-----|------------|-----------------------|-------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------|
| 22. | Literature |                       |                                                                   |                                                        |                                       |
|     | 22.1.      | Required literature   |                                                                   |                                                        |                                       |
|     |            | Ord. number           | Author                                                            | Title                                                  | Publisher                             |
|     |            | 1.                    | Department of Pharmacology with Toxicology                        | Authorized Lectures                                    |                                       |
|     |            | 2.                    | Rang and Dale: H.P. Rang, M.M. Dale, J.M. Ritter, R.J. Flower     | Pharmacology                                           | Akademski pečat<br>2013               |
|     | 22.2.      | Additional literature |                                                                   |                                                        |                                       |
|     |            | Ord. number           | Author                                                            | Title                                                  | Publisher                             |
|     |            | 1.                    | Goodman & Gilman: Lawrence Brunton, John Lasso, Kate Parker       | The Pharmacological Basis of Therapeutics              | Tabernakul<br>2011                    |
|     |            | 2.                    | Varagic V, Milosevic P:                                           | Farmakologija                                          | Elit Medika<br>23 Izdanje<br>2012     |
|     |            | 3.                    | Bertram G. Katzung, Marieke Kruidering-Hall and Anthony J. Trevor | Pharmacology, Examination & Board Review, 12th Edition | Mc Graw-Hill Education, LANGE<br>2019 |

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| Attachment No. 3 |                                                                                           | Course program for the first cycle of studies                                                                                                                                                                                                                                                                                                                                                                                                                 |   |          |   |
| 1.               | Course title                                                                              | Oral hygiene                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |          |   |
| 2.               | Code                                                                                      | DMMOH2                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |          |   |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 | Semester | 4 |
| 7.               | Course workload expressed in ECTS credits                                                 | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |          |   |
| 8.               | Teacher                                                                                   | Responsible teacher: Prof. Dr. Kristina Mitikj<br>Prof. Dr. Maja Pandilova                                                                                                                                                                                                                                                                                                                                                                                    |   |          |   |
| 9.               | Language in which the curriculum is conducted                                             | English                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |          |   |
| 10.              | Necessary prerequisites for listening and taking the class                                | All compulsory subjects from the first year have been listened to                                                                                                                                                                                                                                                                                                                                                                                             |   |          |   |
| 11.              | Course objectives (competences) and learning outcomes:                                    | The purpose of the course is to acquire a broader knowledge of oral hygiene and its importance for general and oral health. Students are trained to identify dental plaque, remove soft and hard deposits, and educate the patient on techniques and means of maintaining oral hygiene.<br>Students acquire skills to achieve optimal oral hygiene in patients with prosthodontic, orthodontic aids, and implants, as well as in patients with special needs. |   |          |   |
| 12.              | Detailed course content by chapter and units, with the learning outcomes for each chapter | Theoretical Teaching - Lectures<br>1. Chapter<br>- Introduction to the subject and patient care - 1 class<br>- Anamnestic data related to oral hygiene and detection of dental plaque - 1 class                                                                                                                                                                                                                                                               |   |          |   |

|     |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  |               |
|-----|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------|
|     |                                                                          | program from the first cycle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                  |               |
|     |                                                                          | <ul style="list-style-type: none"><li>- Dental plaque indices - 1 class</li><li>- Tartar indices - 1 class</li><li>- Plaque control - 1 class</li><li>- Maintenance of oral hygiene at home - 1 class</li><li>- Teeth brushing techniques - 1 class</li><li>- Care for interdental spaces – 1 class</li></ul> Results from chapter 1: The student will focus on education on methods for determining dental plaque and tartar, the most commonly used techniques for brushing teeth, as well as indications and proper use of means for maintaining additional oral hygiene<br><br>2. Chapter <ul style="list-style-type: none"><li>- Pharmacological preparations in the maintenance of oral hygiene - 1</li><li>- Outpatient removal of dental plaque and tartar - 1 class</li><li>- Tooth pigmentation and its removal - 1 class</li><li>- Maintenance of oral hygiene in orthodontic, prosthodontic, and implant patients - 1 class</li><li>- Maintenance of oral hygiene in patients with special needs - 1 class</li><li>- Motivation, re-motivation of patients, evaluation, and maintenance of the achieved results - 1 class</li></ul> Results from chapter 2: The student will be introduced to pharmacological preparations for oral hygiene and will be educated about the methods of removal of dental plaque, tartar, and pigmentation, as well as certain specifics related to oral hygiene maintenance in patients with orthodontic, prosthodontic aids, and patients with special needs.<br>Total: .....15 classes<br><br>Practical teaching - exercises <ul style="list-style-type: none"><li>- From the first chapter 10 classes</li><li>- From the second chapter 20 classes</li></ul> Total .....30 classes |                                                                  |               |
| 13  | Interrelation of subjects                                                | Oral biochemistry,<br>Basis of Periodontology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |               |
| 14. | Detailed description of the teaching and working methods for the subject | Interactive classes (theoretical) work in small groups for exercises, presenting seminars, and other forms provided by the joint ECTS criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  |               |
| 15. | Total Available Time                                                     | 90 classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |               |
| 16. | Forms of teaching activities                                             | 16.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lectures- theoretical teaching. classes                          | 15            |
|     |                                                                          | 16.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Exercises (laboratory, auditorium), seminars, teamwork: classes  | 30            |
|     |                                                                          | 16.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Practice: classes                                                |               |
| 17. | Other forms of activities                                                | 17.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Project assignments: classes                                     |               |
|     |                                                                          | 17.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Independent assignments: classes                                 |               |
|     |                                                                          | 17.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Home study                                                       | 45            |
| 18  | Signature requirements                                                   | Regular attendance and activity at lectures (minimum 60%). Regular attendance and activity at exercises (minimum 90%). If the student does not score the minimum number of points (24 points) required to pass the exam through continuous assessment, the student will take a test (40 points) and a final exam (60 points) in the next session.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                  |               |
| 19  | Method of grading                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  |               |
|     | 19.1.                                                                    | Tests: points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30                                                               |               |
|     | 19.2.                                                                    | Seminar work/project, written and oral presentation: points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Activity and participation in lectures and exercises – 10 points |               |
|     | 19.3.                                                                    | Final exam: points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60 points                                                        |               |
| 20  | Evaluation criteria (points/grade)                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | up to 59 points                                                  | 5 (five) (F)  |
|     |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | from 60 to 68 points                                             | 6 (six) (E)   |
|     |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | from 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)  |

|     |                                              |                                                                                                                                                                                               |                                                                                   |                        |                               |      |
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| 21. | Method of monitoring the quality of teaching | Self-evaluation by students, assistant control during the practical teaching and assessment of the achieved student success, as well as the pass rate of students who have passed the subject |                                                                                   |                        |                               |      |
| 22. | Literature                                   |                                                                                                                                                                                               |                                                                                   |                        |                               |      |
|     | 22.1.                                        | Required literature                                                                                                                                                                           |                                                                                   |                        |                               |      |
|     |                                              | Ord. number                                                                                                                                                                                   | Author                                                                            | Title                  | Publisher                     | Year |
|     |                                              | 1.                                                                                                                                                                                            | Minovska, Pandilova, Ivanovski                                                    | Oral hygiene           | Faculty of Dentistry - Skopje | 2004 |
|     |                                              | 2.                                                                                                                                                                                            | Mirjana Popovska, Vera Radojkova Nikolovska                                       | Oral hygiene           | Faculty of Dentistry - Skopje | 2013 |
|     |                                              | 3.                                                                                                                                                                                            | Mirjana Popovska, Marija Nakova, Vera Radojkova Nikolovska, Zlatanka Belazelkoska | Oral hygiene practicum | Faculty of Dentistry - Skopje | 2013 |
|     | 22.2.                                        | Additional literature                                                                                                                                                                         |                                                                                   |                        |                               |      |
|     |                                              | Ord. number                                                                                                                                                                                   | Author                                                                            | Title                  | Publisher                     | Year |
|     |                                              | 1.                                                                                                                                                                                            | Ivanovski, Pandilova,                                                             | Oral health            | Faculty of Dentistry - Skopje | 2009 |

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| Attachment No. 3 |                                                                              | Course program for the first cycle of studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |          |   |
| 1.               | Course title                                                                 | Biostatistics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |          |   |
| 2.               | Code                                                                         | DMMBS2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |          |   |
| 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.<br>Faculty of Medicine - Skopje,<br>Department of Epidemiology with Statistics and IT                                                                                                                                                                                                                                                                                                                                                                                                              |   |          |   |
| 5.               | Degree (first, second, third cycle)                                          | Integrated first and second cycle studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |          |   |
| 6.               | Academic year/semester                                                       | Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 | Semester | 4 |
| 7.               | Course workload expressed in ECTS credits                                    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |          |   |
| 8.               | Teacher                                                                      | Prof. Dr. Beti Zafirova-Ivanovska - Teacher in charge<br>Prof. Dr. Vesna Velikj-Stefanovska<br>Prof. Dr. Irina Pavlovska                                                                                                                                                                                                                                                                                                                                                                                                                           |   |          |   |
| 9.               | Language in which the curriculum is conducted                                | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |          |   |
| 10.              | Necessary prerequisites for taking and passing the course                    | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |          |   |
| 11.              | Course objectives (competences) and learning outcomes:                       | Objectives of the subject program (competences):<br>1. Acquiring knowledge about the basics of medical statistics, terms, units of measurement.<br>2. Acquiring theoretical and practical knowledge for the analysis of statistical series by applying adequate statistical methods.<br>3. Acquiring theoretical and practical knowledge in the field of demographic and vital statistics, as well as the application of the acquired knowledge in practice.<br>4. Acquiring theoretical and practical knowledge of the foundations, concepts, and |   |          |   |