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| 1.  | Subject                                                                                                                                                                  | <b>DENTAL EQUIPMENT AND DEVICES</b>                                                                               |                            |                   |              |
| 2.  | Code                                                                                                                                                                     | DSO213                                                                                                            |                            |                   |              |
| 3.  | Study Program                                                                                                                                                            | Study Program of Integrated studies in dental medicine                                                            |                            |                   |              |
| 4.  | Organizing Institution (Unit, Institute, Chair, Department)                                                                                                              | Ss. Cyril and Methodius University in Skopje, Faculty of Dentistry, Department of Prosthodontics                  |                            |                   |              |
| 5.  | Educational degree (first or second cycle)                                                                                                                               | Integrated study                                                                                                  |                            |                   |              |
| 6.  | Study year/semester                                                                                                                                                      | 2/3                                                                                                               | 7.                         | Number of credits | 2            |
| 8.  | Teacher                                                                                                                                                                  | Professors teaching at the Department of prosthetic dentistry                                                     |                            |                   |              |
| 9.  | Preconditions                                                                                                                                                            | /                                                                                                                 |                            |                   |              |
| 10. | Teaching goals: To present dental equipment, devices and tools used in dental office.                                                                                    |                                                                                                                   |                            |                   |              |
| 11. | <b>Brief content</b>                                                                                                                                                     |                                                                                                                   |                            |                   |              |
|     | <b>Theoretical course</b>                                                                                                                                                |                                                                                                                   |                            |                   | <b>Class</b> |
|     | Introduction in dental practice equipment, devices and tools, terminology.                                                                                               |                                                                                                                   |                            |                   | 1            |
|     | Dental practice equipment - dental unit.                                                                                                                                 |                                                                                                                   |                            |                   | 1            |
|     | Compressors and dental instruments.                                                                                                                                      |                                                                                                                   |                            |                   | 1            |
|     | Multipurpose dental instruments and air (abrasion) polishing devices.                                                                                                    |                                                                                                                   |                            |                   | 1            |
|     | Intraoral cameras, diagnostic devices.                                                                                                                                   |                                                                                                                   |                            |                   | 1            |
|     | Dental devices used in endodontics.                                                                                                                                      |                                                                                                                   |                            |                   | 1            |
|     | Dental devices used in periodontology.                                                                                                                                   |                                                                                                                   |                            |                   | 1            |
|     | Dental devices used in oral surgery.                                                                                                                                     |                                                                                                                   |                            |                   | 1            |
|     | Dental devices used in prosthetic dentistry.                                                                                                                             |                                                                                                                   |                            |                   | 1            |
|     | Digital dental X-ray machines and tools.                                                                                                                                 |                                                                                                                   |                            |                   | 1            |
|     | Curing lights and radiometer.                                                                                                                                            |                                                                                                                   |                            |                   | 1            |
|     | Lasers in dentistry.                                                                                                                                                     |                                                                                                                   |                            |                   | 1            |
|     | Chairside digital dentistry.                                                                                                                                             |                                                                                                                   |                            |                   | 1            |
|     | Digital technology, 3-D printing.                                                                                                                                        |                                                                                                                   |                            |                   | 1            |
|     | Infection control systems, personal protective equipment.                                                                                                                |                                                                                                                   |                            |                   | 1            |
|     | <b>Total</b>                                                                                                                                                             |                                                                                                                   |                            |                   | <b>15</b>    |
|     | <b>Seminars</b>                                                                                                                                                          |                                                                                                                   |                            |                   | <b>Class</b> |
|     | Elaboration of topics from the relevant material, presentation of the topics by the students and active involvement of the students until discussion of the given topic. |                                                                                                                   |                            |                   | 15           |
| 12. | Methods of studying: class room oriented lectures, interactive lectures, group work, seminar paper                                                                       |                                                                                                                   |                            |                   |              |
| 13. | Total available time                                                                                                                                                     | 60 classes                                                                                                        |                            |                   |              |
| 14. | Organization of the course                                                                                                                                               | 15 classes - theoretical course, 15 classes- seminars, 30 classes - home individual learning and other activities |                            |                   |              |
| 15. | Forms of teaching activities                                                                                                                                             | 15.1.                                                                                                             | Theoretical course         |                   | 15 classes   |
|     |                                                                                                                                                                          | 15.2.                                                                                                             | Practical course, seminars |                   | 15 classes   |
| 16. | Other forms of                                                                                                                                                           | 16.1.                                                                                                             | Project tasks              |                   |              |

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|     | activities                                          | 16.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Individual tasks                                                        |                                    |                     |      |
|     |                                                     | 16.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Individual (home) learning                                              |                                    |                     |      |
| 17. | Method of assessment                                | 17.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tests                                                                   |                                    |                     |      |
|     |                                                     | 17.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Active participation, seminar paper/project (oral/written presentation) |                                    |                     |      |
|     |                                                     | 17.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Final (oral) exam                                                       |                                    |                     |      |
| 18. | Grading criteria (points / grade)                   | Up to 59 points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |                                    | 5 (five) (F)        |      |
|     |                                                     | from 60 to 67 points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                    | 6 (six) (E)         |      |
|     |                                                     | from 68 to 75 points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                    | 7 (seven) (D)       |      |
|     |                                                     | from 76 to 84 points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                    | 8 (eight) (C)       |      |
|     |                                                     | from 85 to 93 points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                    | 9 (nine) (B)        |      |
|     |                                                     | from 94 to 100 points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                    | 10 (ten) (A)        |      |
| 19. | Requirement for signature and taking the final exam | <p>The student is required to actively follow all of the planned activities.</p> <p>Conditional criteria for assessment of knowledge:</p> <p>In order to get a signature, the student should obtain minimum points in theoretical courses, and to present seminar paper;</p> <p>In order to take the final exam, the student should obtain the minimum points from activity and test;</p> <p>If the student has not obtained the minimum points in the continual assessments, he/she in next exam session will have paper part of the exam (40 points) and final exam (60 points)</p> |                                                                         |                                    |                     |      |
| 20. | Language of the course                              | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |                                    |                     |      |
| 21. | Method for evaluation of the quality of education   | Anonymous student's evaluation of the subject and teachers involved in the educational activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |                                    |                     |      |
| 22. | <b>Literature</b>                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |                                    |                     |      |
|     | 22.1.                                               | <b>Mandatory textbooks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         |                                    |                     |      |
|     |                                                     | No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Author                                                                  | Title                              | Publisher           | Year |
|     |                                                     | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Gordana Kovachevska                                                     | Zabotehничki aparati i instrumenti | Gordana Kovachevska |      |
|     |                                                     | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sonja Apostolska                                                        | Ergonomija                         | Sonja Apostolska    | 2014 |
|     |                                                     | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Jagoda Bajevska                                                         | Dentalna keramika                  | Jagoda Bajevska     |      |
|     | 22.2.                                               | <b>Additional literature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                         |                                    |                     |      |
| No. |                                                     | Author                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Title                                                                   | Publisher                          | Year                |      |
| 1   |                                                     | Emilija Bajraktarova Valjakova                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lectures                                                                | Emilija Bajraktarova Valjakova     | 2019                |      |