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| Study program : DENTISTRY |
| Type and level of studies: Integrated academic studies, Level 1/2 |
| Course unit: Cytology and histology with embryology |
| Course directors : Professor Irena Tanaskovic, MD, DSc, MSc Professor Zoran Milosavljevic, MD, DSc, MSc |
| Language of instruction : ENGLISH |
| ECTS: 7, mandatory |
| Prerequisites: |
| Semester: WINTER SEMESTER |
| Course unit objective: Acquiring knowledge and skills in cytology, histology and embryology. |
| <p>Learning outcomes of Course unit: On completion of the course, the student should be able to:</p> <ul style="list-style-type: none"> • use common microscopic methods to study cells, tissues and organs in the laboratory. • describe different types of cells, especially human cells; functional and structural similarities and dissimilarities between them. • describe basic structure and function of nuclei, organelles and other cellular components. • understand fundamental facts regarding structure, cellular arrangement and microscopic anatomy features of human tissues. • understand fundamental characteristic about structure and basic function of human organs within the organ systems especially the oral cavity structures • understand human prenatal development and morphological changes of the human embryo with emphasizes on development of the oral cavity |
| <p>Course unit contents</p> <p>Lectures <i>Histology and embryology begins with a brief introduction to histological methods for light microscopy and describes the general principles of tissue preparation and examination. The course then goes on to discuss the characteristic of the cell structure, morphology of various cell types, cellular arrangements that form the four primary tissues (epithelium, connective tissue, muscle, nerve), and the microscopic anatomy of human organs within organ systems. Also, in this course, students learn human prenatal development from fertilization to birth as well as the morphological changes that take place during the development of teeth and oral cavity structures</i></p> <p>Laboratory sessions <i>Microscopy, Cytoplasm and nucleus, Epithelial tissue and glands, Connective tissue, Muscular tissue, Nervous tissue, Digestive System, Cardiovascular System, Respiratory System, Urinary System, Endocrine System, Female Reproductive System, Male Reproductive System, Eye and Ear, Nervous System, Teeth, Gums, Oral mucosa</i></p> |
| <p>Teaching material</p> <ul style="list-style-type: none"> • Junqueira's Basic Histology, 16th ed, McGraw Hill - Lange, 2016 by A.L. Mescher • Langman's Medical Embryology 11th ed., Sadler, T W, (Thomas W.); Langman, Jan. Philadelphia : Wolters Kluwer Lippincott Williams & Wilkins, c2010. |

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| Number of active teaching hours | | | | Other classes |
| Lectures: 60 | Lab sessions: 30 | Other forms of classes: | Homework: | |
| Teaching methods: Lectures, laboratory sessions, clinical problems solving | | | | |
| Examination methods (maximum 100 points) | | | | |
| Exam prerequisites | No. of points: | Final exam | No. of points: | |
| Student's activity during lectures | 30 | Oral examination | 70 | |
| Labs/tests | | | | |
| Seminars/homework | | | | |
| Project | | | | |
| Other | | | | |

| Grading system | | |
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| Grade | No. of points | Description |
| 10 | 91-100 | Excellent |
| 9 | 81-94 | Exceptionally good |
| 8 | 71-84 | Very good |
| 7 | 61-74 | Good |
| 6 | 51-64 | Passing |
| 5 | < 51 | Failing |