

Course description

University : <i>University of Prešov</i>	
Faculty/university workplace : <i>Faculty of Health Care</i>	
Code : 6KDH/EMBZB/24	Course title : Embryology of Teeth
Type, scope and method of educational activity: Type of educational activity: <i>Lecture</i> Scope of educational activity: <i>1 hour per week 13 per semester</i> Method of educational activity: <i>Attendance</i>	
Number of Credits : <i>1</i>	
Recommended semester : <i>1st year WT</i>	
Study grade: <i>Bachelor</i>	
Prerequisites:	
Conditions for passing the course: Form of assessment: Final evaluation: <i>During the semester, students are required to prepare a presentation on an assigned topic in the field of embryology (20% of the course grade) and fulfill the conditions of participation according to the Study Regulations of the FM PU. The course ends with an examination (80 % of the course grade).</i> <i>The success criteria (percentage of results in the course evaluation) for the classification levels are as follows:</i> <i>A: 100.00 - 90.00 %; B: 89.99 - 80.00 %; C: 79.99 - 70.00 %; D: 69.99 - 60.00 %; E: 59.99 - 50.00 %; FX: 49.99 and less % at least 50 %. A student scoring less than 50% will be graded FX</i> Student Load : <i>Class participation: 13 hours of student preparation - direct course load</i> <i>PP presentation - 5 hours of student preparation - indirect load</i> <i>Independent study and preparation for continuous assessment 12 hours - indirect workload</i>	
Learning outcomes : <i>Upon completion of the course, students will be able to:</i> Knowledge: <ul style="list-style-type: none"> - Define and interpret basic concepts in dental histology and embryology, - understand the processes involved in the development of the face and oral tissues, - describe the histology of the hard and soft tissues of the oral cavity, - characterise the development of teeth and oral tissues, - schematically illustrate the anatomical structure of the teeth and tissues of the oral cavity. Skills: <ul style="list-style-type: none"> - Apply and implement theoretical knowledge and understanding in practice, - identify and analyse disorders of the formation of the hard tissues of the teeth and soft tissues of the oral cavity, - apply theoretical knowledge in the diagnosis and treatment of oral diseases, - apply knowledge in the motivation and treatment of patients with oral diseases. Competencies: <ul style="list-style-type: none"> - Think critically and make independent and autonomous decisions; - work and collaborate in a team and build their identity as a dental hygienist; - Integrate general knowledge in preventive strategies for the treatment of oral diseases; - diagnose, formulate and implement knowledge to develop relationships with patients and achieve improved oral health. 	
Course content: <i>Cell - division, function, structure and cell division. Epithelial tissues, connective tissues, shape and function of bones, cartilage tissue. Development of the face, oral and nasal cavities. Tooth development, dental bar and enamel organ, replacement and accessory teeth, root formation, formation of tooth beds, tooth eruption. Period of deciduous dentition, topography of permanent tooth germs, period of tooth replacement, eruption of permanent teeth, anomalies and dislocations. Enamel formation - amelogenesis, mineralisation and enamel</i>	

maturation. Dentin formation - dentinogenesis, predentin mineralization, dentin structures. Development of dental cementum, basic tissues of the pulp of the tooth, hinge apparatus of the tooth- gingiva, gingivodental cap, supraalveolar fibre system, intraalveolar fibre system, periodontal function.

Literature :

1. Klika, E.: *Histológia*. Martin: Osveta, 1990
2. Kapeller, Pospíšilová: *Embryológia človeka*. Martin: Osveta, 1991
3. Schumacher, G.-H.: *Anatómia pre stomatológov I., II.*, Martin: Osveta 1992
4. Čarnoká, Z., Kovaľová, E.: *Histológia a embryológia - vývin zuba*. Prešov: FZ PU Prešov, 2008. s. 82
5. Kovaľová, E., Klamárová, T. , Müller, A: *Orálna hygiena IV.*, Prešov: Vydavateľstvo Prešovskej univerzity v Prešove 2012

Language which is necessary to complete the course: *english*

Notes :

The student is obliged to attend 80% of the specified lectures and 90% of the specified practicals.
The conditions for the semester thesis are published on the FZO PU website under the instructions for students in the section "Education and specialisations".
For students with specific needs, an individualized approach is provided based on the recommendation of the faculty coordinator for students with specific needs. Instructions on how to complete the assignment are posted on the faculty's website: <https://www.unipo.sk/public/media/26637/Pravidla-hodnotenia-zataze-studenta.pdf>

Course evaluation:

A	B	C	D	E	FX

Lecteurs :

MUDr. Eva Kovaľová, PhD., guarantor, MUDr. Tatiana Klamárová, PhD., co-guarantor, lecturer, examiner

Date of last change:

31.03.2024

Approved by : *doc. MUDr. Eva Kovaľová, PhD. – guarantor*