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Univerza v Mariboru
Medicinska fakulteta

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	**Morfologija zob (anatomija in fiziologija ustne votline)**
Course title:	**Tooth Morphology (Oral Anatomy and Phisiology)**

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
Dentalna medicina/Dental Medicine 2. stopnja/2nd cycle		**2**	**3., 4.**

Vrsta predmeta / Course type	Obvezni/ Compulsory
Univerzitetna koda predmeta / University course code:	

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
65	**0**	**65**			**140**	**9**

Nosilec predmeta / Lecturer:	**red. prof. dr. Nataša Ivančić Jokić**

Jeziki / Languages:	**Predavanja / Lectures:**	slovenščina/slovene
	Vaje / Tutorial:	slovenščina/slovene

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisits:**
Pogoji za pristop k izpitu: Opravljene vaje (100%)	Requirements for access to individual knowledge checking: Completed practical work (100%)

Vsebina:	**Content (Syllabus outline):**
Pri predmetu se bo študent seznanil z anatomsko delitvijo ustne votline, na mehka tkiva, zobe in kosti ter njihovo vlogo pri govoru, žvečenju, prebavi in zaužitju hrane ter fiziognomiji obraza. Spozna zobno nomenklaturo (poimenovanje zob) in označuje določene zobne površine. Anatomija zob in histologija zobnega organa predstavlja glavni teoretični in praktični del predmeta. Študent se bo seznanil z morfologijo zob in zobnih lokov mlečne in stalne denticije, prav tako bo seznanjen z morfološkimi značilnostmi zgornjih in spodnjih sekalcev, podočnikov, ličnikov in kočnikov; orientacijske površine in linije v ustni votlini in obrazu ter odnos med zobmi pri fiziološkem stiku (okluzija, artikulacija).	During class, the student will become familiar with the anatomical division of the oral cavity into soft tissues, teeth and bones, and their role in phonation, mastication, digestion and food ingestion, and facial physiognomy. It will be introduced with dental nomenclature and marking certain tooth surfaces. Teeth anatomy and dental tissue histology make up the theoretical and practical part of the lesson. It will become familiar with morphology of teeth and dental arches of deciduous and permanent dentition, will adopt morphological characteristics of upper and lower incisors, canines, premolars and molars; Orientation surfaces and curves in the oral cavity and face, and the relationship between teeth in physiological contact (occlusion, articulation).

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Temeljni literatura in viri / Readings:

1. Nelson SJ. Wheeler's Dental Anatomy, Physiology, & Occlusion. 11th edition. Elsevier Saunders 2019
2. Fehrenbach MJ, Popowics T. Illustrated Dental Embryology, Histology, and Anatomy. 4th edition. Elsevier Saunders 2015
3. Berkowitz B.K.B., Holland G.R. Moxham BJ. Oral anatomy histology & embriology. Fifth edition. Elsevier 2018
4. Fekonja A. Morfološke značilnosti stalnih zob: navodila za vaje. 2025
5. Fekonja A. Stomatognati system. 1. izd. Univerzitetna založba, 2025.

Cilji in kompetence:

Predmet združuje in proučuje anatomske in morfološke podrobnosti vseh zob prve in druge denticije (mlečne in stalne denticije) ter njihove medsebojne odnose in odnose med vsemi anatomskimi strukturami ustne votline ali orofacialnega sistema. Razen morfoloških podrobnosti vključuje tudi fiziološko vlogo zoba, čeljusti in ustne votline kot začetnega dela prebavnega sistema.

Objectives and competences:

The course associates and studies anatomical and morphological details of the teeth in first and second dentition, and their mutual relations and relations of all anatomical structures of the oral cavity, or the oro-facial system. In addition to morphological detail, it includes physiological role of teeth, jaws and mouth as the initial part of the digestive system.

Predvideni študijski rezultati:

Znanje in razumevanje:

Opisati morfološke značilnosti vseh stalnih zob
Razlikovati mlečne zobe od stalnih zob
Oblikovati grizne površine vseh stranskih zob
Oblikovati labialne površine sekalcev
Določiti funkcijo stomatognatskega sistema
Opisati anatomsko-morfološke značilnosti zob in čeljusti
Pojasniti fiziološko funkcijo ustne votline
Primerjati orientacijske ravnine (transverzalno, sagitalno in vertikalno)
Opisati anatomske značilnosti nekaterih delov zoba (krona, vrat, endodontski prostor in korenina)
Opisati in primerjati skupne značilnosti zob v čeljusti
Primerjati in razlikovati nomenklaturo in sisteme označevanja zob v čeljusti in ustni votlini
Registrirati ugotovitve
Razlikovati med topografskimi in anatomskimi značilnostmi zob
Opisati in analizirati anomalije zob
Opisati strukturo zobnega tkiva
Opisati temelje okluzije in artikulacije
Opisati fizikalne lastnosti in kemično strukturo sklenine

Znanja in spretnosti so podrobneje opisane v Katalogu znanj in spretnosti.

Intended learning outcomes:

Knowledge and understanding:

Describe the morphological characteristics of permanent teeth
Distinguish between deciduous and the permanent teeth
Make the occlusal surfaces of posterior teeth
Make the labial surfaces of incisors
Define the function of the stomatognathic system
Describe the anatomical-morphological characteristics of teeth and jaws
Describe physiological function of the oral cavity
Compare transversal, sagittal and vertical planes
Describe the anatomical features of some parts of the tooth (crown, neck, root canal space and root)
Describe and compare common characteristics of teeth in jaws
Compare and distinguish between the nomenclature and systems of marking teeth in the jaw and oral cavity
Make registration of findings
Distinguish between topographic and anatomical properties of the teeth
Describe and analyze the tooth anomalies
Describe structure of dental tissues
Describe the types of occlusion and occlusal position
Describe the physical properties and chemical structure of enamel.

Knowledge and skills are described in more detail in the Catalogue of Knowledge and Skills.

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Metode poučevanja in učenja:	**Learning and teaching methods:**
Predavanja Seminarji Vaje (tekom vaj bodo študenti pripravili risbe zob in izdelali (iz plastelina, gipsa ali podobnega) zobe zaradi boljšega razumevanja morfoloških oblik zob po funkcionalnih skupinah)	Lectures Seminars Tutorial (during the manual exercises, students will draw and make (from plasticine, gypsum or similar) tooth for better understanding of morphological tooth shape by functional groups)

Načini ocenjevanja:	**Delež (v %) / Weight (in %)**	**Assessment:**
Način (pisni izpit, ustno izpraševanje, naloge, projekt)		Type (examination, oral, coursework, project):
Laboratorijsko delo	**25%**	Laboratory work
Študija primera	**25%**	Case study
Pisni izpit	**50%**	Written exam
OPOMBA Študijsko delo študenta se ocenjuje tekom izvajanja študija in s končnim izpitom. **Študijske obveznosti študentov:** Prisotnost študentov na predavanjih (50%) in vajah (80%) Študija primer - Prepoznavanje zoba		NOTES The study work of the student is assessed during the course of the studies and with final exam. **Academic obligations of students:** Student attendance at lectures (50 %) and tutorials (80%). Case study - Recognition of teeth

Reference nosilca / Lecturer's references:

Bakarčić D, Vlah N, Cicvarić O, Petrović D, Šimunović-Erpušina M, Jankovic S, Dragas Zubalj N, Kresina S, Mohoric S, Grzic R, Glibotic Kresina H, **Ivančić Jokić N**. An Oral Health Promotion Model Implemented in Primorje-Gorski Kotar County. Medicina. 2025,61,217.

Ivančić Jokić N, Matičić L, Šimunović-Erpušina M, Petrović D, Cicvarić O, Bakarčić D. Dental Anxiety Among Students of the University of Rijeka. Acta stomatol Croat. 2024;58(2):177-184.

Šimunović-Erpušina M, Bakarčić D, Cicvarić O, Šimunović L, Sotošek V, Petrović D, **Ivančić Jokić N**. Postoperative Morbidity after Dental Treatment under General Anesthesia in Children with and without Disabilities. Medicina 2024, 60, 668. https://doi.org/10.3390/ medicina60040668

Petrović, D, Cicvarić O, Šimunović –Erpušina M, **Ivančić Jokić, N**, Bakarčić D, Bučević Sojčić, P, Jurić H. The Role of Family Factors in the Development of Dental Anxiety in Children. Medicina 2024, 60, 180. https://doi.org/10.3390/ medicina60010180

Cicvaric O, Grzic R, Erpusina SM, **Ivancic Jokic N**, Bakarcic D. Association of masticatory efficiency with deep carious lesions in children. European Archives of Paediatric Dentistry 2023 Oct;24(5):569-575.

Cicvaric O, Grzic R, Simunovic Erpusina M, Simonic-Kocijan S, Bakarcic D, **Ivancic Jokic N**. Association of Masticatory Efficiency and Reduced Number of Antagonistic Contacts Due to Extraction, Changing Dentition or Malocclusion in Children. Dent J. 2023;11:64

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Orlić E, Spalj S, **Ivancic Jokic N**, Bakarcic D, Cicvaric O, Grzic R. Pandemic Financial Stress in Dental Medicine in Croatia. Dent J 2023;11,9

Horvat Aleksijević L, Prpić J, Muhvić Urek M, Pezelj-Ribarić S, **Ivančić-Jokić N**, Peršić Bukmir R, Aleksijević M, Glažar I. Oral mucosal lesions in childhood. Dent J.2022;10:214-226.

Ivancic Jokic N, Cicvaric O, Gavic L, Dujmovic M, Bakarcic D. Maternal dental anxiety and early childhood caries development. International Journal of Clinical Dentistry 2022;15 (4): 685-691.