2023/2024

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:	**Prof. dr. sc. Nataša Ivančić Jokić/Prof. Nataša Ivančić Jokić, MD,PhD**

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

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisits:**

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).

Temeljni literatura in viri / Readings:

1. Nelson SJ. Wheeler's Dental Anatomy, Physiology, & Occlusion. Tenth edition. Elsevier Saunders 2015
2. Fehrenbach MJ, Popowics T. Illustrated Dental Embryology, Histology, and Anatomy. 4th edition. Elsevier Saunders 2016

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3. 3. Berkowitz B.K.B., Holland G.R. Moxham BJ. Oral anatomy histology &embriology. Fifth edition. Elsevier 2018

Cilji in kompetence:	**Objectives and competences:**
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.	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:	**Intended learning outcomes:**
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.	**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.
Metode poučevanja in učenja:	**Learning and teaching methods:**

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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) Študijsko delo študenta se ocenjuje tekom izvajanja študija in s končnim izpitom. Vaje 25 % Prepoznavanje zoba 25 % Pisni zaključni izpit 50 % **Študijske obveznosti študentov:** Prisotnost študentov na predavanjih (50%) in vajah (80%) Pogoji za pristop k izpitu: Opravljene vaje (100%)	**25%** **25%** **50%**	Type (examination, oral, coursework, project): The study work of the student is assessed during the course of the studies and with final exam. Exercises 25 % Recognition of teeth 25 % Final written exam 50 % **Academic obligations of students:** Student attendance at lectures (50 %) and tutorials (80%). Requirements for access to individual knowledge checking: Completed practical work (100%)

Reference nosilca / Lecturer's references:

1. Verzak Ž, **Ivančić Jokić N**, Modrić VE, Bakarčić D, Karlović Z, Ulovec Z, Negovetić Vranić D. Psychosocial and economic status of the parents with children with and without tooth trauma. Psychiatria Danubina. 2016;28:428-433.
2. **Ivancic Jokic N**, Bakarcic D, Grzic R, Majstorovic M, Sostarek M. What general medicine students of University of Rijeka know about dental avulsion? Eur J Dent Educ. 2016; 31 doi:10.1111/eje.12235 (Epub ahead of print)
3. Negovetić Vranić D, **Ivančić Jokić N**, Bakarčić D, Carek A, Rotim Ž, Verzak Ž. Dental fear in children with repeated tooth injuries. Acta Clin Croat 2016;55:259-264.
4. **Ivančić Jokić N**, Bakarčić D, Nastić V, Majstorović M, Negovetić Vranić D. Disanje na usta kao uzrok orofacijalnih anomalija Paediatr Croat. 2014;58:114-118.
5. Bakarčić D, **Ivančić Jokić N**, Negovetić Vranić D, Majstorović M, Vukić Lušić D, Blečić E, Gržić R. Guidelines for teeth fluoridation with respect to fluoride concentration in Primorje-Gorski Kotar County. Paediatr Croat 2014;58:25-30.
6. **Ivančić Jokić N**, Bakarčić D, Janković S, Malatestinić G, Dabo J, Majstorović M, Vuksan V. Dental caries experience in Croatian school children in Primorsko-goranska county. Cent Eur J Public Health 2013;21:39-42.
7. R. Gržić, D. Bakarčić, I. Prpić, **N. Ivančić Jokić**, A. Sasso, Z. Kovač, V. Lajnert. Dental Health and Dental Care in Children with Cerebral Palsy. Coll Antropol. 35(2011)3:765-774.
8. D. Bakarčić, V. Lajnert, I. Vlašić Cicvarić, **N. Ivančić Jokić**, S. Hrvatin, R. Gržić, I. Prpić. Utječe li mentalna retardacija na žvačnu učinkovitost kod djece sa cerebralnom paralizom?. Paediatr Croat 2011;55:243-246.