


**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>Predmet:</b>	<b>Morfologija zob (anatomija in fiziologija ustne votline)</b>
<b>Course title:</b>	<b>Tooth Morphology (Oral Anatomy and Physiology)</b>

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 Ivančič Jokić

**Jeziki /**
**Predavanja / Lectures:** slovenščina/slovene

**Languages:**
**Vaje / Tutorial:** slovenščina/slovene

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

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 morfološki 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).

**Content (Syllabus outline):**

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. 11th edition. Elsevier Saunders 2019
2. Fehrenbach MJ, Popowics T. Illustrated Dental Embryology, Histology, and Anatomy. 4<sup>th</sup> edition. Elsevier Saunders 2015
3. Berkowitz B.K.B., Holland G.R. Moxham BJ. Oral anatomy histology & embriology. Fifth edition. Elsevier 2018

**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 anatomske-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 nomenklaturu 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.

**Metode poučevanja in učenja:****Learning and teaching methods:**

Predavanja Seminarji Vaje (tekem 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)
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**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 %  <b>Študijske obveznosti študentov:</b>  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 %  <b>Academic obligations of students:</b> Student attendance at lectures (50 %) and tutorials (80%).  Requirements for access to individual knowledge checking:  Completed practical work (100%)
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**Reference nosilca / Lecturer's references:**

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. <https://doi.org/10.1007/s40368-023-00819-w>

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

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.

**Jokic NI**, Kristic J, Cicvaric O, Simunovic-Erpusina M, Stanfel D, Bakarcic D. Preschool teachers' knowledge and attitudes about dental trauma in Rijeka, Croatia: a cross-sectional study. J Oral Res 2021; 10(4):1-7.



Farkaš M, **Ivančić Jokić N**, Mavrinac M, Tambić A. Antibiotic Prescribing Habits and Antimicrobial Resistance Awareness of Dental Practitioners in Primorsko-Goranska County, Croatia. *Microbial Drug Resistance*. DOI:10.1089/mdr.2020.0478

**Ivančić Jokić N**, Bakarčić D, Cicvarić O, Šimunović-Erpušina M, Zukanović A, Hefler G, Nastić V. Knowledge, attitudes and habits regarding oral health among nurses of Clinical hospital center Rijeka. *SG/NJ* 2021;26:19-23.

Bakarčić D, Lajnert V, **Jokić NI**, Gržić R. Masticatory efficiency in children with cerebral palsy. *European Archives of Paediatric Dentistry*. 2021; 22:77–82. <https://doi.org/10.1007/s40368-020-00529-7> (Published online 28.4.2020)