


UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Ortodontija (predklinika)
Course title:	Preclinical Orthodontics

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		5	9

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
30	15				45	3

Nosilec predmeta / Lecturer: red. prof. dr. Stjepan Špalj

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

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

Vsebina:	Content (Syllabus outline):
Rast in razvoj kraniofacialnega sistema in zobovja. Metode spremljanja rasti in razvoja. Ključi okluzije. Odtiskovanje, odlitki in izdelava študijskega modela. Oblikovanje in laboratorijska izdelava retencijskih zapon, labialnega loka in peres. Oblikovanje in namestitve vijakov. Polimerizacijske tehnike izdelave snemnih ortodontskih aparatov. Biostar tehnika. Varjenje in spajkanje. Izdelava snemnih plošč. Izdelava funkcionalnih aparatov. Konstrukcija interceptivnih aparatov. Konstrukcija nesnemnih aparatov. Poliranje snemnih ortodontskih aparatov. Okluzija in artikulator. Filozofija in neurofiziologija konstrukcijskega griza.	Growth and development of craniofacial complex and dentition. Methods of monitoring the growth and development. Keys of occlusion. Taking impressions, casting and forming plaster models. Design and laboratory manufacture of retention clasps, labial bow and springs. Design and incorporation of screws. Polymerization techniques in manufacture of removable orthodontic appliances. Biostar technique. Spot welding and soldering. Construction of base plate. Construction of functional appliances. Construction of interceptive appliances. Construction of fixed appliances. Polishing mobile orthodontic appliances. Bite tray and fixator. Philosophy and neurophysiology of construction bite.

Temeljni literatura in viri / Readings:

- Proffit WR, Fields HW Jr. Contemporary orthodontics, 4th edition. St. Louis: Elsevier 2007.
- Ovsenik M, Farčnik F, Drevenšek M, Zupančič S, Volk J. Ortodontska diagnostika. Ljubljana: Medicinska fakulteta, Katedra za čeljustno in zobno ortopedijo, 2005
- Primožič, J, Ovsenik, M. ČELJUSTNA IN ZOBNA ORTOPEDIJA I. RAZPOZNAVA ČELJUSTNIH IN ZOBNIH NEPRAVILNOSTI: Ljubljana: Medicinska fakulteta, Katedra za čeljustno in zobno ortopedijo, 2017

Cilji in kompetence:
Objectives and competences:



Cilj predmeta je izobraziti študente o rasti in razvoju kraniofacialnega sistema in denticije, prepoznavanju nepravilnosti, predkliničnih ortodontskih postopkih ter oblikovanju in konstrukciji snemnih in nesnemnih ortodontskih aparatov.	The goal is to educate students about the growth and development of craniofacial structures and dentition, basic of malocclusions, preclinical laboratory orthodontic procedures and design, and construction of removable and fixed orthodontic appliances.
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Predvideni študijski rezultati:**Intended learning outcomes:**

Študentje naj bi razumeli filozofijo oblikovanja snemnih in nesnemnih ortodontskih aparatov, poznavanje laboratorijskih postopkov odlitkov in oblikovanja mavčnih modelov ter načine izdelave aparatov. Poznati morajo metode spremljanja rasti in razvoja kraniofacialnega sistema ter prepoznati nepravilnosti.

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

Students should be able to understand the design philosophy of removable and fixed orthodontic appliances, be familiar with laboratory procedures of casting and forming plaster models and ways of constructing appliances. They must be familiar with methods of monitoring growth and craniofacial development and to identify malocclusions.

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

Lectures
Seminars

Načini ocenjevanja:**Delež (v %)****Assessment:****Weight (in %)**

<p>Način (pisni izpit, ustno izpraševanje, naloge, projekt)</p> <p>Končni izpit je sestavljen iz:</p> <ul style="list-style-type: none"> - ustnega teoretičnega 80 % in - praktičnega dela izpita 20 %. 	<p>80%</p> <p>20%</p>	<p>Type (examination, oral, coursework, project):</p> <p>The final exam consists of the:</p> <ul style="list-style-type: none"> - oral theoretical part 80% of and - practical part 20 %.
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Reference nosilca / Lecturer's references:

1. Pavlic A, Trinajstic Zrinski M, Katic V, **Spalj S**. Neoclassical canons of facial beauty: Do we see the deviations? J Craniomaxillofac Surg. 2017;45:741-7. (CC, IF: 1.592)
2. Katalinic A, Trinajstic Zrinski M, Roksandic Vrancic Z, **Spalj S**. Influence of manual screwdriver design in combination with and without predrilling on insertion torque of orthodontic mini-implants. Implant Dent. 2017;26:95-100. (CC, IF: 1.023)
3. **Spalj S**, Novsak A, Bilobrk P, Katic V, Trinajstic Zrinski M, Pavlic A. Mediation and moderation effect of the big five personality traits on the relationship between self-perceived malocclusion and psychosocial impact of dental esthetics. Angle Orthod. 2016;86:413-20. (CC, IF: 1.579)
4. **Spalj S**, Katic V, Vidakovic R, Slaj M, Slaj M. History of orthodontic treatment, treatment needs and influencing factors in adolescents in Croatia. Cent Eur J Public Health. 2016;24:24:123-7. (CC, IF: 0.525)
5. Sasso A, Legovic M, Mady Maricic B, Pavlic A, **Spalj S**. Secular trend of earlier onset and decelerated development of third molars: Evidence from Croatia. Forensic Sci Int. 2015;249C:202-6. (CC, IF: 1.950)
6. Lukez A, Pavlic A, Trinajstic Zrinski M, **Spalj S**. The unique contribution of elements of smile aesthetics to psychosocial well-being. J Oral Rehabil. 2015;42:275-81. (CC, IF: 1.926)
7. Gavric A, Mirceta D, Jakobovic M, Pavlic A, Trinajstic Zrinski M, **Spalj S**. Craniodentofacial characteristics, dental esthetics-related quality of life, and self-esteem. Am J Orthod Dentofacial Orthop. 2015;147:711-8. (CC, IF: 1.690)
8. Katic V, Mandic V, Jezek D, Barsic G, **Spalj S**. Influence of various fluoride agents on working properties and surface characteristics of uncoated, rhodium coated and nitrified nickel-titanium orthodontic wires. Acta Odontol Scand. 2015;73:241-9. (CC, IF: 1.171)
9. **Spalj S**, Lajnert V, Ivankovic L. The psychosocial impact of dental aesthetics questionnaire-translation and cross-cultural validation in Croatia. Qual Life Res. 2014;23:1267-71. (CC, IF: 2.486)



10. Katic V, Curkovic HO, Semenski D, Barsic G, Marusic K, **Spalj S**. Influence of surface layer on mechanical and corrosion properties of nickel-titanium orthodontic wires. *Angle Orthod.* 2014;84:1041-8. (CC, IF: 1.225)