



Univerza v Mariboru

Medicinska fakulteta

UČNI NAČRT PREDMETA / COURSE SYLLABUS								
Ime predmeta:		Izbrana poglavje iz gastroenterologije in hepatologije						
Course title:		Selected Chapters from Gastroenterology and Hepatology						
Študijski program in stopnja Study programme and cycle		Študijska smer Study option		Letnik Year of study	Semester Semester			
Biomedicinska tehnologija/3. stopnja				2	3 ali 4			
Biomedical Technology/3rd Degree								
Vrsta predmeta (obvezni ali izbirni) / Course type (compulsory or elective)				Izbirni				
				Elective				
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
15	30	SV	LV	RV			135	6
Nosilec predmeta / Course coordinator:		Prof. dr. Pavel SKOK						
Jeziki /Languages:		Predavanja / Lectures:		Slovenščina/Slovene				
		Vaje / Tutorial:		-				
Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:				Prerequisites for enrolling in the course or for performing study obligations:				
Vsebina (kratek pregled učnega načrta):				Content (syllabus outline):				
Sodobno raziskovalno delo na področju gastroenterologije in hepatologije, vrednotenje slikovnih metod in laboratorijskih izsledkov, vloga in pomen različnih točkvalnih sistemov v gastroenterologiji. Predstavljene bodo možnosti in uporaba biotehnologije, genetike in farmakogenomike v diagnostiki in zdravljenju nekaterih boleznih prebavil. Kritično vrednotenje posameznih bioznačevalcev, možnosti sledenja bolezenskih procesov, ocena prognoze in izidov zdravljenja pri različnih boleznih prebavil. Poudarek vsebin bo na sodobnem razumevanju organskih in funkcionalnih boleznih prebavil, imunološkega odgovora v različnih delih prebavne cevi in jeter ter avtoimunskih procesov.				Modern research work in the field of gastroenterology and hepatology, evaluation of imaging methods and laboratory findings, the role and importance of various scoring systems in gastroenterology. Possibilities and the use of biotechnology, genetics and pharmacogenomics in the diagnosis and treatment of certain diseases of the gastrointestinal tract will be presented. Critical evaluation of different biomarkers, the possibilities and follow-up of processes, assessment of the prognosis and outcome of treatment in various diseases of the gastrointestinal tract will be also highlighted. The emphasis of the content will be on the modern understanding of organic and functional gastrointestinal diseases, the immune response in various parts of the digestive tube and liver, and				

<p>Predstavljen bo napredek, ki je bil dosežen v zadnjem obdobju na tem področju.</p> <p>Vsebina predmeta bo obravnavala tudi metodologijo raziskovalnega dela v gastroenterologiji, opredelitev ciljev in namenov ter nekatere etične omejitve. Del vsebine bo posvečen kritični analizi objavljenih znanstvenih prispevkov s področja tematike raziskovalnega dela ter možnosti in omejitvah udejanja na izsledkih temelječe medicine v klinični praksi.</p>	<p>autoimmune processes. The progress that has been made in the recent period in this area will be presented.</p> <p>The content of the course will also address the methodology of research work in gastroenterology, the definition of goals and purposes, and some ethical limitations. A part of the content will also be devoted to a critical analysis of published scientific papers in the field of research work, as well as the possibilities and limitations on implementation of evidence-based medicine in clinical setting.</p>
<p>Temeljna literatura in viri / Reading materials:</p>	
<ul style="list-style-type: none"> – Yamada' s Textbook of Gastroenterology. Editors(s): Daniel K. Podolsky, Michael Camilleri, J. Gregory Fitz, Anthony N. Kalloo, Fergus Shanahan, Timothy C. Wang. John Wiley & Sons, Ltd, 2022. – Timothy C. Wang, Michael Camilleri, Timothy C. Wang, Michael Camilleri – ta vir je na razpolago kot pdf in knjiga: – Textbook of Clinical Gastroenterology and Hepatology. Editors(s): C. J. Hawkey F, Jaime Bosch, Joel E. Richter, Guadalupe Garcia-Tsao, Francis K. L. Chan , Blackwell Publishing Ltd, 2012. – Mednarodne indeksirane revije s področja gastroenterologije: Gastroenterology, American Journal of gastroenterology, Clinical gastroenterology and hepatology, Endoscopy, World Journal of Gastroenterology, Scandinavian Journal of Gastroenterology ipd. 	
<p>Cilji in kompetence:</p>	<p>Objectives and competences:</p>
<p>Usmerjeno spoznavanje področja gastroenterologije in hepatologije, usmeritev na posamezna raziskovalna področja ter usposabljanje za samostojno raziskovanje na tem področju z uporabo temeljnih in sodobnih diagnostičnih tehnologij.</p>	<p>Getting acquainted with different areas of gastroenterology and hepatology, focusing on individual research topics, and training for independent research using basic and modern diagnostic technologies.</p>
<p>Predvideni študijski rezultati:</p>	<p>Intended learning outcomes:</p>
<p>Znanje in razumevanje: pomena znanosti, kritičnega vrednotenja izsledkov raziskav v gastroenterologiji in preverjanje domnev. Zavedanje možnih napak pri analizah, sklepanju in prikazovanju rezultatov. Sposobnost analize znanstveno raziskovalnih prispevkov, vsebinska in kvalitativna.</p>	<p>Knowledge and understanding: knowledge and understanding of science, critical assessment of the research results in gastroenterology and hypothesis testing. Awareness of possibility of false analyse results, conclusions and result presentation. Ability of scientific research contributions, content and quality analyse.</p>
<p>Prenosljive/ključne spretnosti in drugi atributi: nacrtovanje raziskave, pomen natančnosti in točnosti pri zbiranju podatkov in izvajanju raziskave, obdelava in kvantitativna/kvalitativna interpretacija pridobljenih rezultatov v skladu z znanimi dejstvi in pridobljenimi novimi spoznanji.</p>	<p>Transferable/key competences and other abilities: research planning, meaning of precision and accuracy in data collection, carrying out of the research, data processing, quantitative and qualitative interpretation of the obtained results according to known facts in the acquired new knowledge.</p>
<p>Metode poučevanja in učenja:</p>	<p>Learning and teaching methods:</p>
<p>Predavanja (interaktivna predavanja, E-učenje) Seminarji (problemsko usmerjeni seminarji) Samostojno delo</p>	<p>Lectures (interactive, E-learning) Seminars (problem-based seminars) Individual work</p>

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
<p>Način (pisni izpit, ustno izpraševanje, naloge, projekt)</p> <p>Seminarska naloga</p> <p>Poročilo</p>	<p>50 %</p> <p>50 %</p>	<p>Method (written or oral exam, coursework, project):</p> <p>Seminar paper</p> <p>Report</p>
Reference nosilca / Course coordinator's references:		
<p>FIJAČKO, Nino, MASTERSON CREBER, Ruth, GOSAK, Lucija, ŠTIGLIC, Gregor, EGAN, Dominic, CHAKA, Brian, DEBELJAK, Nika, STRNAD, Matej, SKOK, Pavel. Evaluating quality, usability, evidence-based content, and gamification features in mobile learning apps designed to teach children basic life support: systematic search in apps stores and content analysis. JMIR mhealth and uhealth. 2021, vol. 9, issue 7, str. 1-16, ilustr. ISSN 2291-5222. https://mhealth.jmir.org/2021/7/e25437, DOI: 10.2196/25437. [COBISS.SI-ID 72125699].</p> <p>SKOK, Pavel, SKOK, Kristijan. Gut microbiota and the pathophysiology of cardiovascular disease. Archives of Medical Science. 2021, [v tisku][str. 1-24], ilustr. ISSN 1896-9151. https://www.archivesofmedicalscience.com/Gut-microbiota-and-the-pathophysiology-of-cardiovascular-disease,127177,0,2.html, DOI: 10.5114/aoms/127177. [COBISS.SI-ID 57512195], [JCR, SNIP]</p> <p>MAHNIČ, Aleksander, PINTAR, Špela, SKOK, Pavel, RUPNIK, Maja. Gut community alterations associated with Clostridioides difficile colonization in hospitalized gastroenterological patients with or without inflammatory bowel disease. Frontiers in microbiology. Sep. 2022, vol. 13, str. 1-8, ilustr. ISSN 1664-302X. https://doi.org/10.3389/fmicb.2022.988426, DOI: 10.3389/fmicb.2022.988426. [COBISS.SI-ID 120477443], [JCR, SNIP]</p> <p>GORENJAK, Mario, JEZERNIK, Gregor, KRUŠIČ, Martina, SKOK, Pavel, POTOČNIK, Uroš. Identification of novel loci involved in adalimumab response in Crohn's disease patients using integration of genome profiling and isoform-level immune-cell deconvoluted transcriptome profiling of colon tissue. Pharmaceutics. [Online ed.]. Sep. 2022, vol. 14, issue 9, str. 1-16, ilustr. ISSN 1999-4923. https://doi.org/10.3390/pharmaceutics14091893, https://www.mdpi.com/1999-4923/14/9/1893, DOI: 10.3390/pharmaceutics14091893. [COBISS.SI-ID 120609795], [JCR, SNIP]</p>		