

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

Predmet:	Izbrana poglavja iz gastroenterologije in hepatologij
Course title:	Selected Chapters from Gastroenterology and Hepatology

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Biomedicinska tehnologija/Biomedical Technology 3. stopnja/3rd Degree		2	3 ali 4

Vrsta predmeta / Course type

Izbirni/Elective

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klin. vaje work	Druge oblike študija	Samost. Delo Individ. Work	ECTS
15	30				105	5

Nosilec predmeta / Lecturer:

Prof. dr. Pavel SKOK

Jeziki /	Predavanja / Lectures:	Slovenščina / Slovene; Angleščina / English
Languages:	Vaje / Tutorial:	Slovenščina / Slovene; Angleščina / English

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

Kandidat mora doseči 300 ECTS na predhodnem študiju.

Graduate degree 300 ECTS

Vsebina:**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 bolezni 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 bolezni prebavil, imunološkega odgovora v različnih delih prebavne cevi in jeter ter avtoimunskih procesov. Predstavljen bo napredek, ki je bil dosežen v zadnjem obdobju na tem področju.

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 možnostih in omejitvah udejanja na izsledkih temelječe medicine v klinični praksi.

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 autoimmune processes. The progress that has been made in the recent period in this area will be presented. 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.

Temeljni literatura in viri / Readings:

- 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, 2006.
- 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.

Cilji in kompetence:

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.

Objectives and competences:

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.

Predvideni študijski rezultati:

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.

Prenesljive/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.

Intended learning outcomes:

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.

Transferable/Key Skills and other attributes:

research planning, meaning of precision and accuracy in data collection, carrying out of the research, data processing, quantitative and

Metode poučevanja in učenja:

interaktivna predavanja,
E-učenje,
problemsko usmerjeni seminarji

Learning and teaching methods:

Interactive lectures,
E-learning,
problem-based seminars

Načini ocenjevanja:

Delež (v %) / Weight (in %)

Assessment:

• seminar s kolokvijem • prispevki opravljenega dela/raziskovanja med študijem v 2.letniku	50 % 50 %	• seminar with a colloquium • research contributions (oral/poster presentations/papers) during the study in the 2nd year
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