Univerza v Mariboru

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	**Klinična imunologija**
Course title:	**Clinical Immunology**

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	Klinične vaje work	Druge oblike študija	Samost. Delo Individ. Work	ECTS
15	20	10			105	5

Nosilec predmeta / Lecturer:	Prof. dr. Ivan Krajnc
Jeziki / Languages: Predavanja / Lectures:	Slovenščina
Vaje / Tutorial:	Slovenščina

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):**
Vsebina študijskega predmeta klinična imunologija zajema proučevanje novih metodologij za diagnostiko, spremljanje in presojanje zdravljenja sistemskih avtoimunskih bolezni in drugih vnetnih bolezni z avtoimuno patogenezo. Študij bo osredotočen na proučevanje celične (celični markerji, mediatorji celičnega avtoimunskega odgovora) in humoralne imunosti (protitelesa pomembna za diagnostiko, spremljanje in zdravljenje avtoimunsko pogojenih bolezni). Laboratorijska dognanja bodo vrednotena skladno s kliniko. Študij bo predstavljal povezavo med kliničnim delom, kliničnim znanstvenim raziskovanjem ter novimi spoznanji laboratorijske imunologije. Poudarek bo na naslednjih bolezenskih entitetah: - sistemski lupus eritematosus - mešana bolezen vezivnega tkiva - Sjogrenov sindrom - dermatomiozitis/polimioziits - sistemska skleroza - sistemski vaskulitisi - revmatoidni artritis - spondiloartritisi	The study programme will be based on lectures covering new methods in diagnostics, monitoring and management of systemic autoimmune diseases and other inflammatory diseases with autoimmune pathogenesis. It will include studies of cellular (the role of various lymphoid subsets and antigen presenting cells in autoimmunity) and humoral immunity (auto -antibodies as markers of disease activity, useful in diagnosis and management of autoimmune diseases). Laboratory studies will be evaluated in the clinical context. Topics that will be discussed represent link between patient care, clinical research and new developments in laboratory immunology, with focus on : - systemic lupus erythemathosus - mixed connective tissue disease - Sjögren's syndrome - dermatomyositis/polymyositis - systemic sclerosis - systemic vasculitis - rheumatoid arthritis - spondyloarthritis

Temeljni literatura in viri / Readings:

- Edward D, Harris MD, Ralph C, Budd M, Genovese G, Firestein J, Sargent C, Sledge. Kelley's Textbook Of Rheumatology . W.B. Saunders Company (2004), ISBN: 0721601413
- Roitt I., Brostoff J., Male D.Immunology. Mosby; 6th edition (2001), ISBN: 0723431892
- Janeway C.A. Jr., Travers P., Walport M., Capra J.D. Immunobiology - the immune system in health and disease. Garland Publishing; 5th edition (2001), ISBN: 081533642X
- Vozelj M. Temeljna imunologija. DZS (2001)
- Isenberg DA, Maddison PJ, Woo P, Glass D.Oxford Textbook of Rheumatology. Oxford University Press; 3rd Bk&CD edition (2004), ISBN: 0198509480
- McCarty DJ, Koopman WJ. Arthritis and Allied Conditions: A Textbook of Rheumatology. Williams & Wilkins; 12th edition (January 1, 1993) ISBN: 0812114302

Cilji in kompetence:	**Objectives and competences:**
Cilj študija klinične imunologije je prenesti spoznanja laboratorijske diagnostike avtoimunskih bolezni v klinično prakso ter uporaba omenjenih spoznanj pri načrtovanju diagnostike in zdravljenja avtoimunskih bolezni. Poseben poudarek bo namenjen spremljanju aktivnosti bolezni v neposredni korelaciji s kliničnimi znaki in posameznimi laboratorijskimi podatki.	The main objective of the study programme is to implement recent advances in basic (laboratory) immunology into clinical praxis and to make use of laboratory studies in the diagnosis and management of autoimmune diseases. Special emphasis will be on new markers of disease activity and their correlation with clinical signs, which will provide new insights and diagnostic valuable options for monitoring disease activity in patients with autoimmune diseases.
Predvideni študijski rezultati:	**Intended learning outcomes:**
Znanje in razumevanje: Osvojitev novih znanj s področja celične in humoralne imunosti, ki jih bo možno neposredno aplicirati v proces zdravljenja in spremljanja avtoimunskih bolezni.. **Prenesljive/ključne spretnosti in drugi atributi:** Odvisno od raziskovalnega segmenta in projekta	**Knowledge and understanding:** The main objective is to give an updated view on our current understanding of autoimmune diseases and to provide advanced academic, laboratory and research training in modern immunology, with emphasis on the interface between the basic and clinical aspects of the subject. Upon completion of this program participants should be able to identify current problems and issues in clinical immunology and to evaluate clinical and laboratory information on patients in the diagnosis and management of autoimmune diseases **Transferable/Key Skills and other attributes:** depends on research project
Metode poučevanja in učenja:	**Learning and teaching methods:**
Predavanja, seminarji, vaje. Individualno raziskovalno delo.	Lectures, seminars, labor. work Individual research work

Načini ocenjevanja:	**Delež (v %) / Weight (in %)**	**Assessment:**
Kolokviji iz posameznih laboratorijskih področij, raziskovalne naloge in projekti.		exams, research projects