

## UČNI NAČRT PREDMETA / COURSE SYLLABUS

|                      |                    |
|----------------------|--------------------|
| <b>Predmet:</b>      | <b>Nefrologija</b> |
| <b>Course title:</b> | <b>Nephrology</b>  |

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

**Vrsta predmeta / Course type**

Izbirni/Elective

**Univerzitetna koda predmeta / University course code:**

| Predavanja<br>Lectures | Seminar<br>Seminar | Vaje<br>Tutorial | Klinične vaje<br>work | Druge oblike<br>študija | Samost. Delo<br>Individ. Work | ECTS |
|------------------------|--------------------|------------------|-----------------------|-------------------------|-------------------------------|------|
| 15                     | 20                 | 10               |                       |                         | 105                           | 5    |

**Nosilec predmeta / Lecturer:**

Prof. dr. Radovan Hojs  
Prof. dr. Breda Balon Pečovnik

**Jeziki /**

**Predavanja / Lectures:**

Slovensko / angleško Slovene / English

**Languages:**

**Vaje / Tutorial:**

Slovensko / angleško Slovene / 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:**

Uvod in individualno raziskovalno delo na področju nefrologije in dialize – poudarek na tehničnih možnostih oz. uporabi biotehnologije v diagnostiki bolezni, sledenju bolezenskih procesov, oceni prognoze, uporaba (bio)materialov v dializi, itd.

Poudarek je na:

- srčno žilne bolezni pri bolnikih s kronično ledvično odpovedjo (KLO), tudi končno
- proces ateroskleroze pri bolnikih s KLO
- kostne spremembe pri bolnikih s KLO
- metabolizem mineralov pri bolnikih s KLO
- glomerulna filtracija – ocenjevanje
- arterijska hipertenzija pri bolnikih s KLO, vključno z zapleti

**Content (Syllabus outline):**

Introduction and individual research work in the field of nephrology and dialysis – with special emphasis on technical possibilities and use of biotechnology in diagnostics, evaluation and prognosis of diseases, and also use of different (bio)materials in dialysis, etc.

Emphasis is on:

- cardiovascular diseases in patients with chronic renal failure / disease (CRF)
- atherosclerosis in patients with CRF
- bone metabolism in patients with CRF
- glomerular filtration rate – evaluation
- arterial hypertension in patients with CRF (including complications)

**Temeljni literatura in viri / Readings:**

- Brenner BM ed. Brenner & Rector's: The Kidney. 6th ed. W.B. Saunders Company 2000, CD rom
- Davison AM, Cameron JS, Grünfeld JP, Kerr DNS, Ritz E, Winearls CG eds. Oxford textbook of clinical nephrology. 2nd ed. Oxford, New York: Oxford University Press 1998
- Braunwald E, Fauci AS, Kasper DL, Hauser SL, Longo DL, Jameson JL. Harrison's Principles of Internal Medicine, 15th Edition. New York: McGraw-Hill 2001

**Cilji in kompetence:**

Spoznavanje in sposobnost raziskovanja na področju nefrologije in dialize z uporabo različnih tehnologij (npr. ultrazvok itd.), uporaba (bio)materialov

**Objectives and competences:**

To realize and to be qualified in research in the field of nephrology and dialysis with the use of different technologies (ultrasound etc.), use of (bio)material

**Predvideni študijski rezultati:**

**Znanje in razumevanje:**

Poglobljeno znanje posameznega individualnega raziskovanja v nefrologiji in dializi z uporabo različnih tehnologij, razumevanje raznih tehnologij v diagnostiki, sledenju, prognozi in zdravljenju

**Prenesljive/ključne spretnosti in drugi atributi:**

individualno odvisno od raziskovalnega dela

**Intended learning outcomes:**

**Knowledge and understanding:**

To deepen the knowledge in different fields in nephrology and dialysis with the use of different technologies, also understanding of different technologies in diagnostics, evaluation, prognosis and treatment

**Transferable/Key Skills and other attributes:**

- dependent individually of research made

**Metode poučevanja in učenja:**

Predavanja, seminarji in predvsem individualno raziskovalno delo

**Learning and teaching methods:**

Lectures, seminars, tutorials and individual research

**Načini ocenjevanja:**

- sprotno ustno preverjanje, kolokvij po opravljenih predavanjih in seminarju, seminar po končanem individualnem delu, prispevki opravljenega dela (posterske predstavitve, itd.)

**Delež (v %) /**

**Weight (in %)**

**Assessment:**

Simultaneous oral examinations, test after lectures and seminars, seminar after individual work, presentations (poster, oral, etc.)