

	UČNI NAČRT PREDMETA/COURSE SYLLABUS
Predmet	Medicinska genetika v javnem zdravju
Course title	Medical Genetics in Public Health

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Zdravstvena nega / 2. stopnja	Ni smeri študija	1. / 2. letnik	2. / 3.
Nursing Care / 2 nd Cycle	No study field	1 st / 2 nd year	2 nd / 3 rd

Vrsta predmeta/Course type izbirni/elective

Univerzitetna koda predmeta/University course code 2ZN 1_2 IP5

Predavanja	Seminar	Sem. vaje	Lab. vaje	Teren. vaje	Samost. delo	ECTS
Lectures	Seminar	Tutorial	Laboratory work	Field work	Individ. work	
25		30			155	7

Nosilec predmeta/Lecturer: prof. dr. Borut Peterlin

Jeziki/ Languages: **Predavanja/Lectures:** slovenski/Slovenian
Vaje/Tutorial: slovenski/Slovenian

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisites:
<ul style="list-style-type: none"> Vpis v prvi ali drugi letnik študijskega programa. Študent mora pred izpitom pripraviti in predstaviti ter zagovarjati projektno/raziskovalno nalogo. 	<ul style="list-style-type: none"> A prerequisite for inclusion is enrolment in the first or second year of study. Student has to prepare, present and defend a project/research paper before the exam.

Vsebina:	Content (Syllabus outline):
<ul style="list-style-type: none"> <i>Epidemiologija genetsko pogojenih bolezni</i> <i>Presejanje genetskih bolezni</i> <i>Genetska obravnava na različnih nivojih zdravstvenega varstva</i> <i>Organizacija genetske dejavnosti v zdravstvenem sistemu</i> <i>Genetski dejavniki in okolje – vpliv na zdravje populacije</i> <i>Genomika podprta z dokazi</i> <i>Etični, socialni in pravni vidiki</i> <i>Personalizirana genomska medicina</i> 	<ul style="list-style-type: none"> <i>Genetic epidemiology</i> <i>Screening for genetic diseases</i> <i>Medical genetics on different levels of health care</i> <i>Organisation of genetic services in the healthcare system</i> <i>Genetic factors & environment – impact on the health of population</i> <i>Evidence based genomics</i> <i>Ethical, social & legal implications</i> <i>Personalized genomic medicine</i> <i>Prevention of genetic diseases (concepts of prevention: primary,</i>

<ul style="list-style-type: none"> • <i>Preprečevanje genetskih bolezni</i> (koncepti prevencije: primarno, sekundarno, terciarno preprečevanje genetskih bolezni) 	secondary, tertiary prevention of genetic diseases)
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Temeljna literatura in viri/Readings:

Temeljna literatura/Basic literature

- Peterlin, B. (2014). *Genetika v ginekologiji*. Univerzitetni klinični center, Klinični inštitut za medicinsko genetiko, Ginekološka klinika. Spletna stran: <http://www.dlib.si/?URN=URN:NBN:SI:DOC-J6LIYG8X>.

Cilji in kompetence:

Učna enota prispeva predvsem k razvoju naslednjih splošnih in specifičnih kompetenc:

- celovito kritično razmišljanje, sposobnost analize, sinteze in predvidevanja rešitev s področij zdravstvenih ved, zdravstvene nege in medicine; družboslovnih in humanističnih ved, naravoslovno-matematičnih ter drugih ved (interdisciplinarnost),
- obvladovanje raziskovalnih metod, postopkov, procesov in tehnologije,
- sposobnost kreativne uporabe znanja pri delu v kliničnem okolju,
- sposobnost reševanja kompleksnih problemov v kliničnem okolju z multidisciplinarnim pristopom: analiza situacije, načrtovanje ukrepov, izvedba načrta, vrednotenje in samovrednotenje,
- profesionalna komunikacija s strokovnjaki drugih znanstvenih področij in usposobljenost za delovanje v medpoklicnih timih,
- vsestransko in sistematično obravnavo pacienta glede na relevantne fizične, psihične, socialne, kulturne, duhovne in družbene dejavnike,
- varovanje pacientovega dostojanstva, zasebnosti in zaupnosti podatkov,
- uvajanje in izvajanje sodobnih metod dela v zdravstveni negi in sistemu zdravstvenega varstva.

Objectives and competences:

The learning unit mainly contributes to the development of the following general and specific competences:

- comprehensive critical thinking, the ability to analyse, synthesise and predict solutions in the field of nursing care, humanities, educational, social, organisational, natural mathematical and other sciences (interdisciplinarity),
- mastering research methods, procedures, processes and technology,
- the ability to creatively use knowledge in the clinical environment,
- the ability to solve complex issues in the clinical environment using the multidisciplinary approach: analysis of the situation, planning the measures, implementing the plan, evaluating and self-evaluating,
- professional communication with experts from other scientific fields and qualification to work in interprofessional teams,
- comprehensive and systematic treatment of the patient with regard to relevant physical, psychological, social, cultural, spiritual and social factors,
- protection of patients' dignity, privacy and data confidentiality,
- introduction and implementation of contemporary work methods in nursing care and the healthcare system.

Predvideni študijski rezultati:**Intended learning outcomes:**

<p>Študent/študentka:</p> <ul style="list-style-type: none"> • razume koncept redkih bolezni in pozna pomen genetskih dejavnikov v epidemiologiji bolezni, • razume prispevek genetskih dejavnikov ter dejavnikov okolja k etiologiji pogostih kompleksnih, kroničnih bolezni, • pozna osnove presejanja in uporabo genomskih metod pri presejanju, • pozna organizacijo genetske dejavnosti v zdravstvenem sistemu, • razume koncept personalizirane genomike, • pozna pomen etičnih, socialnih in pravnih implikacij v genetski medicini, • razvije kompetence za genetsko obravnavo na primarnem zdravstvenem nivoju. 	<p>Students:</p> <ul style="list-style-type: none"> • recognize the concept of rare diseases and know the role of genetic factors in epidemiology of diseases, • recognize the role of genetic factors and environment in the etiology of common complex chronic diseases, • know the concept of screening and recognize the role of genomics, • know the organization of genetic services in the healthcare system, • recognize the concept of personalized genomic medicine, • know the implication of ethical, legal and social issues in genomic medicine, • develop competences for genetic treatment at the primary healthcare level.
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Metode poučevanja in učenja:**Learning and teaching methods:**

<ul style="list-style-type: none"> • <i>predavanja</i> z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov), • <i>seminarske vaje</i>: priprava, predstavitev in uspešen zagovor projektne/raziskovalne naloge, • <i>konzultacije</i>. 	<ul style="list-style-type: none"> • <i>lectures</i> with active student participation (explanation, discussion, questions, examples, problem solving); • <i>tutorial</i>: preparation, presentation and a successful defence of a project/research paper, • <i>consultations</i>.
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Načini ocenjevanja:

Delež (v %)

Weight (in %)

Assessment:

<p>Načini:</p> <ul style="list-style-type: none"> • izpit • izdelava, predstavitev in zagovor projektne/raziskovalne naloge <p>Ocenjevalna lestvica: ECTS.</p>	<p>50 %</p> <p>50 %</p>	<p>Types:</p> <ul style="list-style-type: none"> • exam • preparation, presentation and defence of the project/research paper <p>Grading scheme: ECTS.</p>
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