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| | UČNI NAČRT PREDMETA/COURSE SYLLABUS |
| Predmet | Farmakologija |
| Course title | Pharmacology |

| Študijski program in stopnja Study programme and level | Študijska smer Study field | Letnik Academic year | Semester Semester |
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| Fizioterapija / I. stopnja | Ni smeri študija | 2. letnik | 3. |
| Physiotherapy / 1 st Cycle | No study field | 2 nd year | 3 rd |

Vrsta predmeta/Course type obvezni/obligatory

Univerzitetna koda predmeta/University course code FTH 2 UN I

| Predavanja Lectures | Sem. vaje Tutorial | Kab. vaje Cabinet tutorial | Lab. vaje Laboratory work | Teren. vaje Field work | Samost. delo Individ. work | ECTS |
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| 30 | 15 | | | | 45 | 3 |

Nosilec predmeta/Lecturer: doc. dr. Damijana Mojca Jurič

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

| Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: | Prerequisites: |
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| Vpis v drugi letnik študijskega programa. | A prerequisite for inclusion is enrolment in the second year of study. |

| Vsebina: | Content (Syllabus outline): |
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| <ul style="list-style-type: none"> • <i>Osnove farmakologije:</i> farmakokinetika in farmakodinamika zdravil. • <i>Farmakologija avtonomnega živčevja:</i> simpatično in parasimpatično živčevje. • <i>Kardiovaskularni sistem:</i> zdravila za zdravljenje visokega krvnega tlaka, angine pectoris, srčnega popuščanja in motenj srčnega ritma ter zdravila, ki posegajo v strjevanje krvi. • <i>Respiratorni sistem.</i> • <i>Gibalni in mišično-skeletni sistem:</i> mišični relaksanti, zdravila eikozanoidnega | <ul style="list-style-type: none"> • <i>Basics of Pharmacology:</i> pharmacokinetics and pharmacodynamics of drugs. • <i>Pharmacology of autonomic nervous system:</i> sympathetic and parasympathetic nervous system. • <i>Cardiovascular system:</i> drugs for treatment of high blood pressure, angina pectoris, heart failure and cardiac arrhythmias, and drugs that interfere with blood coagulation. • <i>Respiratory system.</i> • <i>Motor and musculoskeletal system:</i> |

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| <p>metabolizma, zdravila za zdravljenje revmatoidnega artritisa in protina.</p> <ul style="list-style-type: none"> • <i>Endokrini sistem</i>: kortikostreoidna zdravila, zdravila za zdravljenje sladkorne bolezni in dislipidemij. • <i>Farmakologija osrednjega živčevja</i>: anksiolitiki in hipnotiki, antidepresivi, antiepileptiki, antipsihotiki, zdravila za zdravljenje migrene, droge. • <i>Bolečina in analgezija</i>: analgetiki, lokalni in splošni anestetiki. • <i>Farmakoterapevtski izzivi - mladi in starostniki</i>. | <p>muscle relaxants, eicosanoid metabolic drugs, drugs for treatment of rheumatoid arthritis and gout.</p> <ul style="list-style-type: none"> • <i>Endocrine system</i>: corticosteroids, drugs for treatment of diabetes and dyslipidemia. • <i>Pharmacology of the central nervous system</i>: anxiolytics and hypnotics, antidepressants, antiepileptics, antipsychotics, drugs for treatment of migraine, drugs of abuse. • <i>Pain and analgesia</i>: analgesics, local and general anesthetics. • <i>Pharmacotherapeutic issues - young and older people</i>. |
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Temeljna literatura in viri/Readings:

Temeljna literatura/Basic literature

- Rang, H.P., Dale, M.M., Ritter, J.M. in Flower, R.J. (2015). *Rang and Dale's Pharmacology*, 8th ed. Edinburgh: Churchill, Livingstone.
- Reznik, J., Keren, O., Morris, J. in Brian, I., (2017). *Pharmacology Handbook for Physiotherapists*, 1st ed., Elsevier Australia.

Priporočljiva literatura/Recommended literature

- Kladnik-Januš, B. (2006). *Farmakologija*. Maribor: Visoka zdravstvena šola.
- Izbrani članki iz zbornikov znanstvenih srečanj, izbrani članki iz domačih in tujih znanstvenih revij, izbrane internetne strani.

Cilji in kompetence:

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

- poznavanje načel fizioterapevtske obravnave,
- ocenjevanje zdravstvenega stanja pacienta, določitev vrste in obsega funkcionalnih omejitev lokomotornega sistema, postavljanje fizioterapevtske diagnoze, predlaganje ustrezne fizioterapevtske obravnave in vodenje predpisane dokumentacije,
- sodelovanje v fizioterapevtskem, interdisciplinarnem in multidisciplinarnem timu,
- ustno in pisno komuniciranje s sodelavci in strokovnjaki drugih strok.

Objectives and competences:

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

- knowledge of the principles of physiotherapy treatment,
- assessing the patient's health status, determining the type and extent of functional restrictions of the locomotor system, setting up a physiotherapeutic diagnosis, proposing appropriate physiotherapy treatments and keeping the prescribed documentation,
- participation in a physiotherapeutic, interdisciplinary, and multidisciplinary team,

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| | <ul style="list-style-type: none"> • oral and written communication with colleagues and experts of other professions. |
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Predvideni študijski rezultati:

Intended learning outcomes:

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| <p>Student/študentka:</p> <ul style="list-style-type: none"> • pozna osnove farmakološkega zdravljenja, • razume želene in neželene učinke, ki jih imajo zdravila na bolnika, • se usposobi za vrednotenje bolnikovega funkcionalnega stanja glede na farmakoterapijo in za pravilno izbiro in uporabo ustreznih fizioterapevtskih postopkov. | <p>Students:</p> <ul style="list-style-type: none"> • know the basics of pharmacotherapy, • understand the indications and side effects of drugs on the patient, • develop skills for evaluation of the patient's functional status with respect to pharmacotherapy, and for the proper selection and use of relevant physiotherapy procedures. |
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Metode poučevanja in učenja:

Learning and teaching methods:

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| <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 seminarske naloge, portfolio (reševanje problemov, študije primera, kritično presojanje, diskusija, refleksija izkušenj, vrednotenje, projektno delo, timsko delo). | <ul style="list-style-type: none"> • <i>lectures</i> with active student participation (explanation, discussion, questions, examples, problem solving), • <i>seminar tutorial</i>: preparation, presentation and a successful defence of a seminar paper, portfolio (problem solving, case studies, methods of critical thinking, discussion, reflection of experience, evaluation, project work, team work). |
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Načini ocenjevanja:

Delež (v %)

Weight (in %)

Assessment:

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| <p>Načini:</p> <ul style="list-style-type: none"> • izpit • izdelava, predstavitev in zagovor seminarske naloge <p>Ocenjevalna lestvica: ECTS.</p> | <p>80 %</p> <p>20 %</p> | <p>Types:</p> <ul style="list-style-type: none"> • exam • preparation, presentation and defence of the seminar paper <p>Grading scheme: ECTS.</p> |
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