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| | UCNI NACRT PREDMETA/COURSE SYLLABUS |
| Predmet | Fizioterapija pri ortotiki in protetiki |
| Course title | Physiotherapy in Orthotics and Prosthetics |

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| Študijski program in stopnja Study programme and level | Študijska smer Study field | Letnik Academic year | Semester Semester |
| Fizioterapija / I. stopnja | Ni smeri študija | 3. letnik | 5. |
| Physiotherapy / I st Cycle | No study field | 3 rd year | 5 th |

Vrsta predmeta/Course type

obvezni/obligatory

Univerzitetna koda predmeta/University course code

FTH 3 UN 2

| 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 | | 30 | | | 60 | 4 |

Nosilec predmeta/Lecturer:

Jeziki/
Languages:

Predavanja/Lectures:

slovenski/Slovenian

Vaje/Tutorial:

slovenski/Slovenian

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

Prerequisites:

Vpis v tretji letnik študijskega programa.

A prerequisite for inclusion is enrolment in the third year of study.

Vsebina:

Content (Syllabus outline):

- *Vloga fizioterapevta ter diplomiranega ortotika in protetika pri aplikaciji ortoz in protez ter pri uporabi ostalih medicinskih pripomočkov.*
- *Fizioterapija pri protetiki spodnjih udov. Predoperativni program fizioterapije. Amputacije. Zgodnja fizioterapevtska obravnava.*
- *Program fizioterapije za pripravo na protetično oskrbo. Proteze: razvrstitev in način delovanja. Analiza hoje. Učenje hoje*

- *The role of the physiotherapist and certified orthotist and prosthetist in the application of orthoses, prostheses, and other medical aids.*
- *Physiotherapy in the field of lower limb prosthetics. Pre-operative physiotherapy programme. Amputations. Early physiotherapeutic treatment.*
- *Physiotherapy programme for preparation for prosthetic care. Prostheses: classification and functioning. Gait analysis. Learning to walk*

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| <p>s protezo. Najpogostejše napake pri hoji s protezo.</p> <ul style="list-style-type: none"> • <i>Fizioterapija pri protetiki zgornjih udov in obraza (tudi estetske proteze).</i> Program fizioterapije pred in po amputaciji. Proteze/epiteze: razvrstitev in način delovanja. Aktivnosti za povrnitev funkcije uda. • <i>Uporaba ortoz v fizioterapiji.</i> Ortoze – razvrstitev in način delovanja. Ortoze za spodnje ude. Ortoze za zgornje ude in glavo. Spinalne ortoze. Ortoze pri športu. Programi fizioterapije pred in med uporabo ortoz. • <i>Vloga fizioterapevta pri izbiri in učenju uporabe ortoze.</i> • <i>Ortopedska obutev in ostali medicinski pripomočki.</i> • <i>Uporaba medicinskih pripomočkov pri osebah z različnimi diagnozami.</i> • <i>Ocenjevanje uspešnosti uporabe proteze, ortoze in drugih medicinskih pripomočkov.</i> <p><i>Kabinetne vaje:</i></p> <ul style="list-style-type: none"> • Seznanitev z protezami, ortozami in ostalimi medicinskimi pripomočki. • Nameščanje protez, ortoz in ostalih medicinskih pripomočkov. • Trening hoje. • Trening funkcionalnih aktivnosti ob uporabi medicinskih pripomočkov. | <p>with a prosthesis. Common prosthetic gait deviations.</p> <ul style="list-style-type: none"> • <i>Physiotherapy in the field of upper limb prosthetics and epitheses.</i> Physiotherapy programme before and after the amputation. Prostheses/epitheses: classification and functioning. Activities to restore the limb function. • <i>Using orthoses in physiotherapy.</i> Orthoses – classification and functioning. Lower limb orthoses. Upper limb orthoses. Head orthoses. Spinal orthoses. Orthoses in sports. Physiotherapy programmes before and between the use of orthoses. • <i>The role of a physiotherapist in the process of selection and in teaching how to use the orthosis.</i> • <i>Orthopaedic shoes and other medical aids.</i> • <i>Using medical aids in patients with different diagnoses.</i> • <i>Assessing the effectiveness of the prosthesis, orthosis and other medical aids.</i> <p><i>Cabinet exercises:</i></p> <ul style="list-style-type: none"> • Getting acquainted with prostheses, orthoses and other medical aids. • Application of prostheses, orthoses and other medical aids. • Gait training. • Training of functional activities using medical aids. |
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Temeljna literatura in viri/Readings:

Temeljna literatura/Basic literature

- Burger H. (ur.) (2001). *Ortopedska obutev in ortoze.* Zbornik predavanj/XII. Dnevi rehabilitacijske medicine, 16. in 17. marec 2001-I.izd. Ljubljana: IRSR.
- Burger H. (ur.) (2002). *Amputacije in protetika.* Zbornik predavanj/XIII. Dnevi rehabilitacijske medicine, 15. in 16. marec 2002-I.izd. Ljubljana: IRSR.

Priporočljiva literatura/Recommended literature

- Hsu J. D., Michael J. W. (eds.) (2008). *AAOS Atlas of orthoses and assistive devices 4th ed.* Philadelphia: Mosby, Elsevier.
- Krajbich, J. I., Pinzur, M. S., Potter, B. K. in Stevens, P. M. (eds.) (2016). *Atlas of amputation and limb deficiencies 4th ed.* Rosemont IL. Bone and Joint Initiative.

Cilji in kompetence:

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

Objectives and competences:

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

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| <ul style="list-style-type: none"> • sprejemanje odgovornosti za določanje in doseganje lastnih rezultatov dela in/ali rezultatov dela heterogene skupine na področju izbire in aplikacije medicinskih pripomočkov, • avtonomnost pri strokovnem delu in sprejemanju odločitev o izboru medicinskih pripomočkov, • zaznavanje potreb po spremembah v praksi, razvijanje in kritično uvajanje novih pristopov, ki temeljijo na z dokazi podprti praksi aplikacije medicinskih pripomočkov, • ocenjevanje zdravstvenega stanja pacienta, določitev vrste in obsega funkcionalnih omejitev lokomotornega sistema, postavljanje fizioterapevske diagnoze, predlaganje ustrezne fizioterapevske obravnave in vodenje predpisane dokumentacije in dokumentacije o medicinskih pripomočkih, • prepoznavanje, spoštovanje, upoštevanje in vključevanje individualnih potreb pacientov v njihovo fizioterapevsko obravnavo, • uporabo naprav in pripomočkov za izvajanje fizioterapije ob aplikaciji medicinskih pripomočkov, • evalviranje rezultatov in učinkovitosti terapije ter aplikacije medicinskih pripomočkov (kritična refleksija), • sodelovanje v fizioterapevskem, interdisciplinarnem in multidisciplinarnem timu, • ustno in pisno komuniciranje s sodelavci in strokovnjaki drugih strok. | <p><i>specific competences:</i></p> <ul style="list-style-type: none"> • taking responsibility for determination and achievement of personal results and/or the results of heterogeneous team in selection and application of medical aids, • autonomy in professional work and decision-making for the right selection of medical aids, • identifying needs for changes in practice, developing and critically introducing new approaches, based on the evidence-based practice on application of medical aids, • evaluating the patients' health status, defining types and extent of functional limitations of the locomotor system, delivering the physiotherapeutic diagnosis, suggesting the appropriate physiotherapeutic treatment, and keeping record of the required documentation and documentation about medical device, • recognising, respecting, considering and including the individual needs of patients into their physiotherapeutic treatment, • using the aids and devices for performing physiotherapy along with the application of medical aids, • evaluating results and effectiveness of the therapy and application of medical aids (critical reflexion), • cooperating in physiotherapeutic, interdisciplinary and multidisciplinary teams, • spoken and written communication with colleagues and other experts. |
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Predvideni študijski rezultati:

Študent/študentka:

- se usposobi za prepoznavanje motenj gibanja, drže in motenj funkcije, ki zahtevajo uporabo medicinskih pripomočkov,
- pozna vrste protez in ortoz ter ostale medicinske pripomočke,
- razume delovanje in funkcijo posamezne ortoze/proteze in medicinskega pripomočka,

Intended learning outcomes:

Students:

- develop skills for recognition of motor disorders, body posture disorders and functional disorders, which need the use of medical aids,
- know the type of prostheses/orthoses and other medical aids,
- recognise the functioning of different types of prostheses/orthoses and other medical aids,

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| <ul style="list-style-type: none"> • poznavanje medicinskih pripomočkov in njihove funkcije ter pravilnega nameščanja, • razvije sposobnost prepoznavanja uspešnosti namestitve in uporabe medicinskih pripomočkov. | <ul style="list-style-type: none"> • know all medical aids, their functions and proper application, • develop the ability to recognise the successful application and use of medical aids. |
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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, individualno in skupinsko delo), • <i>kabinetne vaje</i>: demonstracija, simulacija, študija primera, razgovor, razprava. | <ul style="list-style-type: none"> • <i>lectures</i> with active student participation (explanation, discussion, questions, examples, problem solving, individual and group work), • <i>cabinet tutorial</i>: demonstration, simulation, case studies, conversation, discussion. |
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Načini ocenjevanja:

Delež (v %)

Weight (in %)

Assessment:

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| <p>Način za predmete s P in KV (do 30 ur):</p> <ul style="list-style-type: none"> • pisni izpit • študija primera/seminar <p>Ocenjevalna lestvica: ECTS.</p> | <p>80 %</p> <p>20 %</p> | <p>Types:</p> <ul style="list-style-type: none"> • written exam • case study/seminar <p>Grading scheme: ECTS.</p> |
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