



Univerza v Mariboru



MEDICINSKA FAKULTETA

UČNI NAČRT PREDMETA / SUBJECT SPECIFICATION

Predmet:	Fizikalna in rehabilitacijska medicina
Subject Title:	Physical and Rehabilitation Medicine

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Splošna medicina General medicine - EMŠP		4	7

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Klin. vaje Clin work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
15	15		15		45	3

Nosilec predmeta / Lecturer:

Red. prof. dr. Zmago TURK

Jeziki /

Predavanja / Lecture:

Slovensko/Slovene

Languages:

Vaje / Tutorial:

Slovensko/Slovene

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

Prerequisites:

Vsebina:

Študenta seznanimo z osnovnimi informacijami iz fizikalne medicine in rehabilitacije. S področja fizikalne medicine mu predstavimo oblike, in sicer kinezioterapijo, elektroterapijo, mehanoterapijo, hidroterapijo, magnetoterapijo, lasersko terapijo. Dobi osnovne informacije iz področja balneologije in klimatologije – izkoriščanje klimatskih pogojev v terapevtske namene. Osnovni programi fizikalne terapije za posamezne bolezni (travmatologija, ortopedija, nevrologija).

Rehabilitacija: osnovni pojmi razdelitve rehabilitacije na medicinsko, profesionalno in socialno, definicija prizadetosti, oviranosti in okvare.

Ocena delazmožnosti, ocena invalidnosti, poklicno svetovanje, ergonomski pristopi.

Tehnični pripomočki in pomagala – klasifikacija, nomenklatura, standardi.

Protetika in ortotika: rehabilitacija amputiranih, rehabilitacija v otroški dobi.

Gerontološka rehabilitacija: posebnosti fizikalne

Content (Syllabus outline):

The student will receive the basic information on physical medicine and rehabilitation. In the field of physical medicine different types will be presented: kinesiology, electric therapy, mechanic therapy, hydrotherapy, magnetic therapy and laser therapy. Moreover, some basic knowledge in the field of balneology and climatology- using the climatologic and environmental factors for therapeutic reasons. A basic program of physical therapy for certain diseases will be presented (traumatology, orthopedy, neurology).

REHABILITATION: basic information on rehabilitation (medical, professional and social; definition of disability, handicap, impairment.

The assessment of working ability, assessment of handicap and professional consulting as well as ergonomic approach.

Medical aids and devices - classification, standards, definitions.

Prosthetics and orthotic-: rehabilitation of amputated persons, rehabilitation of children.

medicine in rehabilitacije pri starostnikih.

Gerontologic rehabilitation: specific rehabilitation of elderly people.

Temeljni literatura in viri / Textbooks:

1. Fizikalna in rehabilitacijska medicina – Univerza v Mariboru, visoka zdravstvena šola 2002.
2. Specialna fizikalna medicina, Ivo Jajić, Školjska knjiga Zagreb; 2000.
3. Fizikalne medicina. Ivo Jajić i suradnici, medicinska knjiga Zagreb; 1996.
4. Fizikalna revmatološka propedeutika. Ivo Jajić, Medicinska naklada Zagreb; 1994
5. Fizikalne medicina i obća rehabilitacija. Ivo Jajić i suradnici. Medicinska naklada Zagreb; 2000.
6. Kottke, Krusen, Handbook of physical rehabilitation. Saunders, 1990.
7. Edicije Inštituta za rehabilitacijo. Pripomočki in zbirke, izdane v zadnjih 10-tih letih. Diagnostika in terapija za različne invalidnosti, smernice za rehabilitacijsko obravnavo različnih patologij.

Dodatni viri:

1. Mednarodna klasifikacija okvar, prizadetosti in oviranosti. Ljubljana: Inštitut za varovanje zdravja RS in Inštitut RS za rehabilitacijo, 1997.
2. International Classification of Functioning, Disability and Health. Geneva: World Health Organisation, 2001.
3. Kahn J: Principles and practice of electrotherapy. New York: Livingstone, 1991
4. DeLisa JA, Gans BM, eds. Rehabilitation medicine. Principles and practice. Third edition. Philadelphia: Lippincott-Raven, 1998.
5. Wade D. ed. Measurement in neurological rehabilitation. New York: Oxford Medical Publications, 1992.
6. Štefančič M. in sodelavci. Osnove fizikalne in rehabilitacijske medicine – v tisku. Inštitut RS za rehabilitacijo Ljubljana.

Cilji:

Prikazati študentu osnovne informacije stroke Medicinska rehabilitacija kot neposredni del timskega zdravljenja. Informirati ga o metodah fizikalne terapije kot terapevtski program za posamezne bolezni in poškodbe. Seznaniti o možnostih specialista fizikalne medicine na primarni, sekundarni in terciarni ravni. Osnovno informacijo o diagnostiki v fizikalni medicini (EMNG, UZ, termovizija).

Objectives:

Presentation of the basic professional information about the Medical rehabilitation as a direct part of integrated healing. Aim of the course is to inform the student about the methods of physical therapy, therapeutic program for certain diseases and injuries. Moreover, possibilities of physical medicine on the primary, secondary and tertiary level will be presented as well as basic information of diagnostics in physical medicine (Ultrasound, thermovision, EM)

Predvideni študijski rezultati:

Znanje in razumevanje:

Poznavanje strokovnega področja rehabilitacije. Praktično znanje fiziatričnega kliničnega pregleda in poznavanje najpogostejših patoloških stanj, ki potrebujejo rehabilitacijsko obravnavo.

Prenesljive ključne spretnosti in drugi atributi:

Spretnost v prepoznavanju pglavitnih funkcionalnih motenj, ki jih rehabilitacija lahko izboljša. Razumevanje poteka in vloge rehabilitacije v vrnitvi bolnika/poškodovanca v normalno življenje. Poznavanje vloge posameznega člana rehabilitacijskega tima in tako ustrezno usmerjanje obravnave bolnika na primarnem nivoju. Poznavanje tehničnih možnosti za nadomeščanje

Intended learning outcomes:

Knowledge and Understanding of rehabilitation. Practical knowledge on physiatric clinical examination and most often pathologic conditions in need of rehabilitation treatment.

Transferable/Key Skills and other attributes:

Recognition of main functional disorders, which could be improved by rehabilitation.

Understanding of the course and role of the rehabilitation in patient's returning into normal life.

Recognition of the role of each member of the team in patient treatment on primary level.

Knowledge about technical possibilities of replacement of

prizadetih funkcij.

affected functions.

Metode poučevanja in učenja:**Learning and teaching methods:**

Predavanja, vaje, video prezentacija, klinične demonstracije.

Lectures, exercises, video presentations, clinical demonstrations

Načini ocenjevanja:

Delež (v %) /

Assessment:

Weight (in %)

Način (pisni izpit, ustno izpraševanje, naloge, projekt)		Type (examination, oral, coursework, project):
Seminarsko delo	20%	Seminar
Pisni izpit	80 %	Written exam

Reference nosilca / Lecturer's references:

ČELAN, Dušan, PALFY, Miroslav, BRAČUN, Drago, TURK, Zmago, MOŽINA, Janez, KOMADINA, Radko. Measurement of spinal sagittal curvatures using the laser triangulation method. Collegium antropologicum, ISSN 0350-6134, 2012, vol. 36, no. 1, str. 179-186.

[http://www.collantropol.hr/_doc/Coll.%20Antropol.%2036%20\(2012\)%201:%20179%E2%80%93186.pdf](http://www.collantropol.hr/_doc/Coll.%20Antropol.%2036%20(2012)%201:%20179%E2%80%93186.pdf). [COBISS.SI-ID 4215871], [JCR, SNIP, WoS do 5. 5. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus do 1. 1. 2014: št. citatov (TC): 1, čistih citatov (CI): 1, normirano št. čistih citatov (NC): 4]

TURK, Zmago, VAUHNİK, Renata, MIČETIĆ-TURK, Dušanka. Prevalence of nonspecific low back pain in schoolchildren in North-Eastern Slovenia. Collegium antropologicum, ISSN 0350-6134, dec. 2011, vol. 35, no. 4, str. 1031-1035.

[http://www.collantropol.hr/_doc/Coll.%20Antropol.%2035%20\(2011\)%204:%201031%E2%80%931035.pdf](http://www.collantropol.hr/_doc/Coll.%20Antropol.%2035%20(2011)%204:%201031%E2%80%931035.pdf).

[COBISS.SI-ID 4162111], [JCR, SNIP, WoS do 7. 1. 2014: št. citatov (TC): 4, čistih citatov (CI): 4, normirano št. čistih citatov (NC): 17, Scopus do 27. 11. 2013: št. citatov (TC): 5, čistih citatov (CI): 5, normirano št. čistih citatov (NC): 22]

TURK, Zmago, TURK, Eva. Our experience with evaluation of communication among older patients and health

workers. HealthMed, ISSN 1840-2291, 2009, vol. 3, no. 3, str. 195-203. [COBISS.SI-ID 3387455], [JCR, SNIP, WoS do 17. 1. 2013: št. citatov (TC): 2, čistih citatov (CI): 2, normirano št. čistih citatov (NC): 1, Scopus do 4. 7. 2012: št. citatov (TC): 2, čistih citatov (CI): 2, normirano št. čistih citatov (NC): 1]

JESENŠEK PAPEŽ, Breda, PALFY, Miroslav, MERTIK, Matej, TURK, Zmago. Infrared thermography based on artificial intelligence as a screening method for carpal tunnel syndrome diagnosis. Journal of international medical research, ISSN 0300-0605, 2009, vol. 37, no. 3, str. 779-790. [COBISS.SI-ID 3334719], [JCR, SNIP, WoS do 17. 1. 2013: št. citatov (TC): 1, čistih citatov (CI): 1, normirano št. čistih citatov (NC): 0, Scopus do 5. 11. 2013: št. citatov (TC): 6, čistih citatov (CI): 6, normirano št. čistih citatov (NC): 2]

GORIŠEK, Borut, GORIŠEK MIKSIĆ, Nina, KRAJNC, Petra, PAKIŽ, Maja, TURK, Zmago. The role of procalcitonin in gynaecological surgery. Journal of international medical research, ISSN 0300-0605, 2009, vol. 37, no. 3, str. 918-926.

[COBISS.SI-ID 3336511], [JCR, SNIP, WoS do 11. 6. 2013: št. citatov (TC): 2, čistih citatov (CI): 2, normirano št. čistih citatov (NC): 1, Scopus do 24. 4. 2013: št. citatov (TC): 4, čistih citatov (CI): 4, normirano št. čistih citatov (NC): 1]