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| **Naziv predmeta** | | | | | **Zagonetka boli** | | | | | | | | | | |
| **Kod** | MFMI08 | | Godina studija | | | 1-6. | | | | | | | | | |
| **Nositelj/i predmeta** | Prof.dr.sc. Damir Sapunar | | Bodovna vrijednost (ECTS) | | | 2 | | | | | | | | | |
| Suradnici | Prof.dr.sc. Livia Puljak, Tihana Repić, Ivana Vuka | | Način izvođenja nastave (broj sati u semestru) | | | P | | S | V | | | T |  | | |
| 10 | | 10 | 5 | | |  |
| Status predmeta | Izborni | | Postotak primjene e-učenja | | | 0 | | | | | | | | | |
| **OPIS PREDMETA** | | | | | | | | | | | | | | | |
| Ciljevi predmeta | Usvajanje temeljnih znanstvenih i kliničkih informacija neophodnih za razumijevanje fenomena boli. | | | | | | | | | | | | | | |
| Uvjeti za upis predmeta i ulazne kompetencije potrebne za predmet | Nema preduvjeta | | | | | | | | | | | | | | |
| Očekivani ishodi učenja na razini predmeta (4-10 ishoda učenja) | Nakon položenog predmeta student će moći:  - definirati temeljne pojmove povezane s boli  - opisati mehanizam nastanka osjeta boli  - opisati patofiziološke mehanizme koji mogu dovesti do razvitka kronične boli  - objasniti temeljne probleme povezane s istraživanjem boli  - opisati i analizirati čimbenike koji mogu utjecati na percepciju boli  - opisati i definirati pojmove placeba i noceba  - opisati multidisciplinarni pristup liječenju boli  - analizirati i razgovarati o etičkim i kulturnim aspektima fenomena boli | | | | | | | | | | | | | | |
| Sadržaj predmeta detaljno razrađen prema satnici nastave | Temeljne odrednice fenomena boli; Pregled trenutnog znanja anatomije, fiziologije, biokemije i farmakologije važnog za razumijevanje sustava percepcije boli; Teorija nadziranog ulaza; Psihološki aspekti boli, te utjecaj spola, kulture i okolinskih činitelja na odnos prema boli; Definicija i taksonomija boli; Temeljenje razlike akutne i kronične boli; Generalizirani i regionalni bolni sindromi; Metode simptomatske kontrole; Placebo i nocebo; Multidisciplinarni pristup terapiji i dijagnostici; Etički i kulturološki aspekti boli. | | | | | | | | | | | | | | |
| Vrste izvođenja nastave: | ☐ *on line* u cijelosti | | | | | ☐ ☐       (ostalo upisati) | | | | | | | | | |
|
| Obveze studenata | Nazočnost na nastavi 80% predavanja, 90% seminari i 100% vježbe | | | | | | | | | | | | | | |
| Praćenje rada studenata *(upisati udio u ECTS bodovima za svaku aktivnost tako da ukupni broj ECTS bodova odgovara bodovnoj vrijednosti predmeta):* | Pohađanje nastave |  | |  | | |  | | |  | | | | |  |
| Seminarski rad |  | |  | | |  | | | (Ostalo upisati) | | | | |  |
| Pismeni ispit | 2 | |  | | |  | | | (Ostalo upisati) | | | | |  |
|  |  | |  | | |  | | | (Ostalo upisati) | | | | |  |
|  |  | |  | | |  | | | (Ostalo upisati) | | | | |  |
| Ocjenjivanje i vrjednovanje rada studenata tijekom nastave i na završnom ispitu | Pisani ispit | | | | | | | | | | | | | | |
| Obvezna literatura (dostupna u knjižnici i putem ostalih medija) | **Naslov** | | | | | | | | | | **Broj primjeraka u knjižnici** | | | **Dostupnost putem ostalih medija** | |
| Nastavni moduli koje su pripremili nastavnici i koji se nalaze u e-izbornom predmetu na Internetu | | | | | | | | | |  | | | *Dostupno na Internetu* | |
| Dopunska literatura |  | | | | | | | | | | | | | | |
| Načini praćenja kvalitete koji osiguravaju stjecanje utvrđenih ishoda učenja | -Analiza kvalitete nastave od strane studenata i nastavnika,  -Analiza prolaznosti na ispitima,  -Izvješća Povjerenstva za kontrolu provedbe nastave,  -Izvaninstitucijska evaluacija (posjet timova za kontrolu kvalitete Nacionalne agencije za kontrolu kvalitete, uključenje u TEEP). | | | | | | | | | | | | | | |
| Ostalo (prema mišljenju predlagatelja) |  | | | | | | | | | | | | | | |

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| **NAME OF THE COURSE** | | **The Puzzle of Pain** | | | | | | | | | | | | |
| **Code** | MFMI… | | | | Year of study | | | | 1-6 | | | | | |
| Course teacher | Prof. Damir Sapunar, MD, PhD | | | | Credits (ECTS) | | | | 2 | | | | | |
| Associate teachers | Livia Puljak, Ivana Vuka, Tihana Repić | | | | Type of instruction (number of hours) | | | | L | S | | E | | T |
| 10 | 10 | | 5 | |  |
| Status of the course | Elective | | | | Percentage of application of e-learning | | | |  | | | | | |
| **COURSE DESCRIPTION** | | | | | | | | | | | | | | |
| Course enrolment requirements and entry competences required for the course | None | | | | | | | | | | | | | |
| Learning outcomes expected at the level of the course (4 to 10 learning outcomes) | |  | | --- | | Understand and adopt basic scientific and clinical information essential to an understanding of the fields of pain research and multidisciplinary management. | | | | | | | | | | | | | | |
| Course content broken down in detail by weekly class schedule (syllabus) | |  | | --- | | Basic Considerations of Pain; Overview of our current understanding of the anatomy, physiology, biochemistry, and pharmacology of the peripheral nerves, spinal cord, and brain; Gate Control Theory (Melzack and Wall); Psychological aspects of pain, and influences of gender, social, cultural, and environmental factors relevant to pain; Definitions and taxonomy of pain; Fundamental differences in the phenomena of acute and chronic pain; Generalized i Regional Pain Syndromes; Methods for Symptomatic Control; Multidisciplinary pain diagnosis and treatment; Ethical and cultural aspects of pain. | | | | | | | | | | | | | | |
| Format of instruction | ☐ *on line* in entirety | | | | | ☐       (other) | | | | | | | | |
|
| Student responsibilities | In accordance to Rules of studying and Deontological code for USSM students. | | | | | | | | | | | | | |
| Screening student work *(name the proportion of ECTS credits for each* *activity so that the total number of ECTS credits is equal to the ECTS value of the course)* | Class attendance | |  | Research | | |  | Practical training | | | | |  | |
| Experimental work | |  | Report | | |  | (Other) | | | | |  | |
| Essay | |  | Seminar essay | | |  | (Other) | | | | |  | |
| Tests | |  | Oral exam | | |  | (Other) | | | | |  | |
| Written exam | | 2 | Project | | |  | (Other) | | | | |  | |
| Grading and evaluating student work in class and at the final exam | Written exam | | | | | | | | | | | | | |
| Required literature (available in the library and via other media) | **Title** | | | | | | | | **Number of copies in the library** | | **Availability via other media** | | | |
| Online learning modules prepared by the course teachers; available in the e-course on Internet | | | | | | | |  | | Internet | | | |
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| Optional literature (at the time of submission of study programme proposal) |  | | | | | | | | | | | | | |
| Quality assurance methods that ensure the acquisition of exit competences | * Teaching quality analysis by students and teachers * Exam passing rate analysis * Committee for control of teaching reports * External evaluation | | | | | | | | | | | | | |
| Other (as the proposer wishes to add) |  | | | | | | | | | | | | | |