Svaki novi izborni predmet za ak. god. 2017./2018. treba biti napisan u ovoj tablici na HR i EN jeziku

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Naziv predmeta** | | | | | Teratologija – uzimanje lijekova u trudnoći | | | | | | | | | | |
| **Kod** | MFMI… | | Godina studija | | | 1-5 | | | | | | | | | |
| **Nositelj/i predmeta** | doc.dr.sc. Sandra Kostić | | Bodovna vrijednost (ECTS) | | | 3 | | | | | | | | | |
| Suradnici | izv.prof. dr.sc. Katarina Vukojević, prof.dr.sc. Mirna Saraga Babić, doc. dr.sc. Snježana Mardešić, doc.dr.sc. Ivana Mudnić | | Način izvođenja nastave (broj sati u semestru) | | | P | | S | V | | | T |  | | |
| 30 | | 0 |  | | |  |
| Status predmeta | Izborni | | Postotak primjene e-učenja | | | 0 | | | | | | | | | |
| **OPIS PREDMETA** | | | | | | | | | | | | | | | |
| Ciljevi predmeta | Razumijevanje i usvajanje znanja o utjecaju lijekova na razvoj malformacija fetusa | | | | | | | | | | | | | | |
| Uvjeti za upis predmeta i ulazne kompetencije potrebne za predmet | nema | | | | | | | | | | | | | | |
| Očekivani ishodi učenja na razini predmeta (4-10 ishoda učenja) | Nakon što odslušaju i polože ovaj kolegij, studenti će znati / moći:  - Opisati, raščlaniti i objasniti osnovne pojmove vezane za razvoj fetusa  - Navesti i objasniti komponente placentalne barijere  - Identificirati, raščlaniti i opisati razvojne anomalije  - Navesti i objasniti čimbenike koji utječu na razvoj anomalija  - Opisati načela teratologije i navesti povijesne primjere  - Navesti lijekove koji se najčešće koriste za vijeme trudnoće i laktacije  - Objasniti pojmove vezane za farmakokinetiku  - Objasniti utjecaj majčine prehrane, lijekova i ilegalnih suspstanci na razvoj fetusa | | | | | | | | | | | | | | |
| Sadržaj predmeta detaljno razrađen prema satnici nastave | - Osnove razvoja ljudskog ploda  - Posteljica – optok krvi, placentalna barijera  - Razvojne anomalije – genetički, epigenetički i okolišni čimbenici  - Načela teratologije i povijesni primjeri  - Lijekovi u trudnoći i laktaciji  - Farmakokinetika (apsorpcija, distribucija, metabolizam, sekrecija)  **-** Narkotici, nesteroidni protuupalni lijekovi, anksiolitici i antidepresivi, antibiotici, lijekovi za bolesti srca i krvnih žila, citostatici, spolni hormoni, lijekovi protiv kožne bolesti:djelovanje i primjeri mogućih poremećaja nastali njihovim djelovanjem  - Prehrana majke i fetusa  - Dodaci prehrani  - Utjecaj ilegalnih supstanci na razvoj fetusa  - Vrijednost istraživanja teratogena na životinjama  - Pretraživanje znanstvene literature, kratki filmovi o teratologiji | | | | | | | | | | | | | | |
| Vrste izvođenja nastave: | ☐ predavanja  ☐ seminari i radionice  ☐ vježbe  ☐ *on line* u cijelosti  ☐ mješovito e-učenje  ☐ terenska nastava | | | | | ☐ samostalni zadaci  ☐ multimedija  ☐ laboratorij  ☐mentorski rad  ☐       (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 |  | |  | | |  | | | (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** | |
| Sadler TW. Medicinska embriologija. Zagreb: Školska knjiga.  Pereza N, Ostojić S, Zergollern-Čupak Lj, Kapović M, Peterlin B. Klinička dismorfologija i razvojne anomalije, Medicina 2010, Vol. 46, No. 1, p. 5-18 | | | | | | | | | |  | | |  | |
| Dopunska literatura | Drugs During Pregnancy and Lactation (Third Edition), 2015Treatment Options and Risk Assessment Edited by:Christof Schaefer, Paul W. J. Peters and Richard K. Miller  ISBN: 978-0-12-408078-2 | | | | | | | | | | | | | | |
| 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) |  | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NAME OF THE COURSE** | | Teratology – taking drugs during pregnancy | | | | | | | | | | | | |
| **Code** | MFMI… | | | | Year of study | | | | 1-5 | | | | | |
| Course teacher | Assistant professor Sandra Kostić, PhD | | | | Credits (ECTS) | | | | 3 | | | | | |
| Associate teachers | prof. Katarina Vukojević, prof.Mirna Saraga Babić, prof. Snježana Mardešić, prof. Ivana Mudnić | | | | Type of instruction (number of hours) | | | | L | S | | E | | T |
| 30 | 0 | |  | |  |
| Status of the course | Elective | | | | Percentage of application of e-learning | | | | 0 | | | | | |
| **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) | After the end of the course, the students will be able to:  - Describe and explain the basics of human development  - Identify and describe the components of placental barrier  - Identify and describe the most common drugs taken during the pregnancy and their mechanism of action and possible influence on development of anomalies  - Name and explain the supplements taken during the pregnancy and their possible influence on development of anomalies  - Describe the influence of ilegal substances on the fetal development | | | | | | | | | | | | | |
| Course content broken down in detail by weekly class schedule (syllabus) | - The basics of the human development  - Placenta – blood supply, the placental barrier  - Developmental anomalies – genetic, epigenetic and environmental influence  - The principles of teratology and historical examples  - Taking drugs during pregnancy and lactation  - Pharmacokinetics (absorption, distribution, metabolism, secretion)  **-** Narcotics, NSAIDs, anksiolitics i antidepresants, antibiotics, drugs for heart and blood vessels diseases, citostatics, sex hormons, drugs for skin diseases:action and examples of possible anomalies due to their action  - Mother diet  - Supplements in diet  - The influence of ilegal substances on the fetal development  - The value of the animal reasearch of teratogens  - Research of the scientific literature, short movies with teratology theme | | | | | | | | | | | | | |
| Format of instruction | ☐ lectures  ☐ seminars and workshops  ☐ exercises  ☐ *on line* in entirety  ☐ partial e-learning  ☐ field work | | | | | ☐ independent assignments  ☐ multimedia  ☐ laboratory  ☐ work with mentor  ☐       (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 | |  | 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** | | | |
| Sadler TW. Medical embriology. Zagreb: Školska knjiga.  Pereza N, Ostojić S, Zergollern-Čupak Lj, Kapović M, Peterlin B. Clinical dismorphology and developmental anomalies, Medicina 2010, Vol. 46, No. 1, p. 5-18 | | | | | | | |  | |  | | | |
|  | | | | | | | |  | |  | | | |
|  | | | | | | | |  | |  | | | |
|  | | | | | | | |  | |  | | | |
|  | | | | | | | |  | |  | | | |
|  | | | | | | | |  | |  | | | |
|  | | | | | | | |  | |  | | | |
|  | | | | | | | |  | |  | | | |
| Optional literature (at the time of submission of study programme proposal) | Drugs During Pregnancy and Lactation (Third Edition), 2015Treatment Options and Risk Assessment Edited by:Christof Schaefer, Paul W. J. Peters and Richard K. Miller  ISBN: 978-0-12-408078-2 | | | | | | | | | | | | | |
| 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) |  | | | | | | | | | | | | | |