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| **NAME OF THE COURSE** | **Pathophysiology of endocrinopathies** |
| **Code** | MFMI… | Year of study | 2-6 |
| Course teacher | Assoc.prof. Tina Tičinović Kurir, MD, PhD | Credits (ECTS) | 2 |
| Associate teachers | Assist.prof. Joško Božić, MD, PhDAssist.prof. Mladen Krnić, MD, PhDAnela Novak, MD, PhDProf. Veselin Škrabić, MD, PhDMarino Vilović, MD | Type of instruction (number of hours) | L | S | E | T |
| 10 | 10 | 5 | 25 |
| 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) | * interpret underlying pathophysiological mechanisms of the endocrinopathies
* describe and explain the clinical features associated with the most common disorders of the endocrine system
* describe, analyze and discuss systemic disorders related to the endocrine system
* explain and critically interpret the tests used in the diagnosis of endocrinopathies
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| Course content broken down in detail by weekly class schedule (syllabus) | Lectures (10 hours)1. Pathophysiological mechanisms of endocrinopathies
2. Pathophysiology of diabetes mellitus
3. Thyroid and parathyroid glands diseases
4. Pituitary disorders
5. Metabolic and endocrine disorders in OSA patients

Seminars (10 hours)1. Adrenal glands diseases (3h)
2. Pathophysiology of osteoporosis (2h)
3. Review of basic diagnostic tests in endocrinology (3h)
4. CAH and disorders of sex hormones

Practice (5 hours)1. Problem exercise
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| 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) |
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| 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 | 0,5 | Research |       | Practical training |       |
| Experimental work |       | Report |       |       (Other) |       |
| Essay |       | Seminar essay | 0,5 |       (Other) |       |
| Tests |       | Oral exam |       |       (Other) |       |
| Written exam | 1,0 | Project |       |       (Other) |       |
| Grading and evaluating student work in class and at the final exam | Written exam (10 MCQ) |
| Required literature (available in the library and via other media) | **Title** | **Number of copies in the library** | **Availability via other media** |
| - Hammer GD et al. Pathophysiology of disease: an introduction to clinical medicine, 7th edition. McGraw Hill Education, 2014. (selected chapters) |       |       |
| - Materials from the lectures |       |       |
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| Optional literature (at the time of submission of study programme proposal) | - Kasper DL et al. Harrison's principles of internal medicine, 19th edition. McGraw Hill Education, 2015. (selected chapters) |
| 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
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| Other (as the proposer wishes to add) |       |

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| **Naziv predmeta** | **Patofiziologija endokrinopatija** |
| **Kod** | MFMI… | Godina studija | 2-6 |
| **Nositelj/i predmeta** | Izv.prof.dr.sc. Tina Tičinović Kurir | Bodovna vrijednost (ECTS) |      2 |
| Suradnici | Doc.dr.sc.Joško BožićDoc.dr.sc. Mladen KrnićDr.sc. Anela Novak Prof.dr.sc. Veselin ŠkrabićMarino Vilović, dr.med. | Način izvođenja nastave (broj sati u semestru) | P | S | V | T |  |
| 10 | 10 | 5 | 25 |
| Status predmeta |      Izborni | Postotak primjene e-učenja  |      0% |
| **OPIS PREDMETA** |
| Ciljevi predmeta | Upoznati studente s temeljnim patofiziološkim mehanizmima najčešćih endokrinih bolesti, njihovim dijagnosticiranjem i kliničkim očitovanjem.  |
| Uvjeti za upis predmeta i ulazne kompetencije potrebne za predmet | Nema |
| Očekivani ishodi učenja na razini predmeta (4-10 ishoda učenja)  | * interpretirati patofiziološke mehanizme u pozadini nastanka endokrinopatija
* opisati i objasniti kliničke značajke povezane s najčešćim poremećajima endokrinog sustava
* opisati, raščlaniti i raspraviti sistemske poremećaje povezanim s endokrinim sustavom
* objasniti i kritički interpretirati testove koji se koriste u dijagnosticiranju pojedinih endokrinopatija
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| Sadržaj predmeta detaljno razrađen prema satnici nastave  | Predavanja (10 student sati)1. Patofiziološki mehanizmi endokrinopatija (2h)
2. Patofiziologija šećerne bolesti (2h)
3. Bolesti tireoidne i paratireoidnih žlijezda (2h)
4. Poremećaji hipofize (2h)
5. Metabolički i endokrini poremećaji u bolesnika s OSA-om (2h)

Seminari (10 student sati)1. Bolesti nadbubrežne žlijezde (3h)
2. Patofiziologija osteoporoze (2h)
3. Pregled osnovnih dijagnostičkih testova u endokrinologiji (3h)
4. KAH i poremećaji spolnih hormona (2h)

Vježbe (5 student sati)1. Problemska vježba
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| 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) |
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| Obveze studenata | Nazočnost na nastavi više od 80% satnice predmeta |
| Praćenje rada studenata *(upisati udio u ECTS bodovima za svaku aktivnost tako da ukupni broj ECTS bodova odgovara bodovnoj vrijednosti predmeta):* | Pohađanje nastave | 0,5 |  |       |  |       |
| Seminarski rad | 0,5 |  |       |       (Ostalo upisati) |       |
| Pismeni ispit | 1,0 |  |       |       (Ostalo upisati) |       |
|  |       |  |       |       (Ostalo upisati) |       |
|  |       |  |       |       (Ostalo upisati) |       |
| Ocjenjivanje i vrjednovanje rada studenata tijekom nastave i na završnom ispitu | Pisani ispit (10 pitanja višestrukog izbora) |
| Obvezna literatura (dostupna u knjižnici i putem ostalih medija) | **Naslov** | **Broj primjeraka u knjižnici** | **Dostupnost putem ostalih medija** |
| - Tičinović Kurir T i sur. Patofiziologija endokrinopatija. Split: Redak; 2013.- Materijali s predavanja |       |  |
| Dopunska literatura  | - Vrhovac B i sur. Interna medicina. Zagreb 2008. (odabrana poglavlja) |
| 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) |       |