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| **NAME OF THE COURSE** | | Elective e-course: Statistics in your diploma thesis | | | | | | | | | | | | |
| **Code** |  | | | | Year of study | | | | 6 | | | | | |
| Course teacher | Ana Marušić | | | | Credits (ECTS) | | | | 2 | | | | | |
| Associate teachers | Ivan Buljan, Ružica Tokalić | | | | Type of instruction (number of hours) | | | | L | S | | E | | F |
| 10 |  | | 15 | |  |
| Status of the course | Elective | | | | Percentage of application of e-learning | | | | 0% | | | | | |
| **COURSE DESCRIPTION** | | | | | | | | | | | | | | |
| Course objectives | To familiarize students with the statistical procedures and tools applicable in their final thesis. | | | | | | | | | | | | | |
| Course enrolment requirements and entry competences required for the course | There are no requirements – the course is opened to all students. | | | | | | | | | | | | | |
| Learning outcomes expected at the level of the course (4 to 10 learning outcomes) | - Understanding of methodological principles necessary for application and writing of research thesis  - Use of statistical programmes in data analysis  - Entering the various types of data  - data presentation in research article | | | | | | | | | | | | | |
| Course content broken down in detail by weekly class schedule (syllabus) | Each day will start with 2 hours of lectures, followed by 3 hours of practical work. Each day will be dedicated to new step in final thesis data analysis  **Day 1**  Lecture: Types of data and research plan/protocol  Practical: Statistical problems I  **Day 2**  e-Lecture: Entering the data  Practical: Statistical problems II  **Day 3**  e-Lecture: Statistical tests  Practical: Statistical problems III  **Day 4**  e-Lecture: Data presentation and interpretation of results  Practical: Statistical problems IV  **Day 5**  Lecture: Presentation of results and conclusions from the data  Practical: Statistical problems V | | | | | | | | | | | | | |
| Format of instruction | ☒ lectures  ☒ exercises  ☒ mixed e-learning  ☒ independent assignments | | | | |  | | | | | | | | |
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| Student responsibilities | Presence at teaching activities: 80% lectures, 100% exercises. | | | | | | | | | | | | | |
| 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 | | 0.25 | Individual assignments (Course essay) | | | 1.75 |  | | | | |  | |
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| Grading and evaluating student work in class and at the final exam | Written seminar and course assignments | | | | | | | | | | | | | |
| Required literature (available in the library and via other media) | **Title** | | | | | | | | **Number of copies in the library** | | **Availability via other media** | | | |
| Marušić M, ur. Principles of Research in Biomedicine and Health. Zagreb: Medicinska naklada; 2015. | | | | | | | | 5 | | - | | | |
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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 | Quality assessment during classes by students and teachers.  Analysis of course examination success.  Report of the Committee for quality assurance.  External evaluation (reaccreditation assessment from the Agency for Higher Education and Research) | | | | | | | | | | | | | |
| Other (as the proposer wishes to add) |  | | | | | | | | | | | | | |

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| **Naziv predmeta** | | **Izborni e-predmet: Statistika u diplomskom radu** | | | | | | | | | | | | | |
| **Kod** | MFMI… | | | Godina studija | | 6. | | | | | | | | | |
| **Nositelj/i predmeta** | Prof. dr. sc. Ana Marušić, dr. med. | | | Bodovna vrijednost (ECTS) | | 2 | | | | | | | | | |
| Suradnici | Ivan Buljan, mag. psych., Ružica Tokalić, dr. med. | | | Način izvođenja nastave (broj sati u semestru) | | P | | S | V | | | T | Nastavu je moguće održavati u popodnevnim satima | | |
| 10 | |  | 15 | | |  |
| Status predmeta | Izborni | | | Postotak primjene e-učenja | | 50% (zadatci na e-platformi Merlin) | | | | | | | | | |
| **OPIS PREDMETA** | | | | | | | | | | | | | | | |
| Ciljevi predmeta | Upoznati studente sa statističkim postupcima koji su primjenjivi za njihov diplomski rad | | | | | | | | | | | | | | |
| Uvjeti za upis predmeta i ulazne kompetencije potrebne za predmet | Nema uvjeta za upis. | | | | | | | | | | | | | | |
| Očekivani ishodi učenja na razini predmeta (4-10 ishoda učenja) | - poznavanje metodoloških principa potrebnih za provedbu i pisanje diplomskog rada  -korištenje statističkih programa u obradi rezultata  -unos različitih vrsta podataka  - prikaz rezultata | | | | | | | | | | | | | | |
| Sadržaj predmeta detaljno razrađen prema satnici nastave | Svaki nastavni dan započet će s 2 sata predavanja, nakon kojeg slijede 3 sata praktičnoga rada, Svaki dan bit će posvećen novom koraku u analizi rezultata diplomskog rada.  **Prvi dan:**  Predavanje: Vrste podataka i plan/protokol istraživanja  Vježbe: Rad na statističkim problemima 1  **Drugi dan:**  Predavanje: Unos podataka  Vježbe: Rad na statističkim problemima 2  **Treći dan:**  Predavanje: Statistički testovi  Vježbe: Rad na statističkim problemima 3  **Četvrti dan:**  Predavanje: Prikaz podataka i Interpretacija rezultata  Vježbe: Rad na statističkim problemima 4  **Peti dan:**  Predavanje: Prezentacija nalaza i zaključivanje iz podataka  Vježbe: Rad na statističkim problemima 5 | | | | | | | | | | | | | | |
| 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, 100% vježbe (elektronički) | | | | | | | | | | | | | | |
| Praćenje rada studenata *(upisati udio u ECTS bodovima za svaku aktivnost tako da ukupni broj ECTS bodova odgovara bodovnoj vrijednosti predmeta):* | Pohađanje nastave | | 0,25 | |  | |  | | |  | | | | |  |
| Seminarski rad | | 1,75 | |  | |  | | | (Ostalo upisati) | | | | |  |
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| Ocjenjivanje i vrjednovanje rada studenata tijekom nastave i na završnom ispitu | Seminarski rad i praktični zadatci tijekom nastave. | | | | | | | | | | | | | | |
| Obvezna literatura (dostupna u knjižnici i putem ostalih medija) | **Naslov** | | | | | | | | | | **Broj primjeraka u knjižnici** | | | **Dostupnost putem ostalih medija** | |
| Marušić M, ur. Uvod u znanstveni rad u medicini. 5. izdanje. Zagreb:Medicinska naklada; 2013. | | | | | | | | | | 20 | | |  | |
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| Dopunska literatura | Petz B, Osnovne statističke metode za nematematičare. Jastrebarsko; Naklada Slap | | | | | | | | | | | | | | |
| 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,  -Izvan institucijska evaluacija (posjet timova za kontrolu kvalitete Nacionalne agencije za kontrolu kvalitete, uključenje u TEEP). | | | | | | | | | | | | | | |
| Ostalo (prema mišljenju predlagatelja) |  | | | | | | | | | | | | | | |