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| **Naziv predmeta** | **Izborni predmet: Znanost za društvo – odgovorno istraživanje i inovacije** |
| **Kod** | MFMI… | Godina studija | 1.-6. |
| **Nositelj/i predmeta** | Prof. dr. sc. Ana Marušić, dr. med. | Bodovna vrijednost (ECTS) | 2 |
| Suradnici | dr. sc. Shelly Pranić; 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  |  |
| **OPIS PREDMETA** |
| Ciljevi predmeta | Upoznati studenti s principima odgovornog istraživanja i inovacija, u okviru pravila europskog istraživačkog okvira |
| Uvjeti za upis predmeta i ulazne kompetencije potrebne za predmet | Nema uvjeta za upis. |
| Očekivani ishodi učenja na razini predmeta (4-10 ishoda učenja)  | -kritičko razumijevanje odgovornog istraživanja i inovacija, posebice odgovornost prema društvu-uporaba dostupnih alata za transparentnost istraživanja-prepoznavanje građevnih jedinica registara kliničkih ispitivanja- razumijevanje uloge liječnika i istraživača u širenju znanja i odgovornoj primjeni rezultate istraživanja u društvu-izrada edukativnog materijala o medicinskim istraživanjima za javnost |
| 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 jednoj od glavnih aspekata odgovornog istraživanja i inovacija.**Prvi dan:** Predavanje: Odgovorno istraživanjeVježbe: Rasprava kroz konkretne primjere (case studies).**Drugi dan:** e-Predavanje: Odgovorne inovacijeVježbe: Rasprava kroz konkretne primjere (case studies).**Treći dan:** e-Predavanje: Otvoreni pristupVježbe: Rasprava kroz konkretne primjere (case studies).**Četvrti dan:** e-Predavanje: Etika u istraživanjimaVježbe: Rasprava kroz konkretne primjere (case studies).**Peti dan:** Predavanje: Uključivanje javnosti/društva i upravljanje istraživanjima i inovacijama Znanstveni kafić: odgovorna provedba istraživanja (igra s kartama) |
| 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 |
| 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 | 0.75 |  |       |       (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 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 |  |
|  | RRI tools |  | <http://www.rri-tools.eu>  |
|  | European Commission. Responsible Research and Innovation. Europe's ability to respond to societal challenges. |  | <https://ec.europa.eu/research/swafs/pdf/pub_public_engagement/responsible-research-and-innovation-leaflet_en.pdf>  |
| Dopunska literatura  | Office of Research Integrity. General resources. Dostupno na: <http://ori.hhs.gov/general-resources-0>.  |
| 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** | Elective course: Science for society – responsible research and innovation |
| **Code** |  | Year of study | 1-6 |
| Course teacher | Prof. Ana Marušić | Credits (ECTS) | 2 |
| Associate teachers | dr. Shelly Pranić, Ivan Buljan, dr. 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 |  |
| **COURSE DESCRIPTION** |
| Course objectives | To familiarize students with the responsible research and innovation (RRI), which is in the heart of research effort worldwide, including EU research programmes. |
| 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) | - Critical understanding of the responsible research and innovation, especially the responsibility of science to society- Use available tools for research transparency- Recognition of structure of clinical trial registries- Understanding the role of medical doctors and researcher in knowledge dissemination and responsible application of research in society- Creation of educational material about medical research for the public. |
| 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 important aspects of responsible research and innovation.**Day 1**Lecture: Responsible researchPractical: Discussion of case studies**Day 2**e-Lecture: Responsible innovationPractical: Discussion of case studies**Day 3**e-Lecture: Open accessPractical: Discussion of case studies**Day 4**e-Lecture: Ethics in researchPractical: Discussion of case studies**Day 5**Lecture: Including public in research, responsible governance of research and innovationScience Café: card game on responsible conduct of research |
| Format of instruction | ☒ lectures☒ exercises ☐ mixed e-learning☒ independent assignments |  |
|
| 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) | 0.75 | Final essay | 1,0 |
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| Grading and evaluating student work in class and at the final exam | Written test 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 | - |
| RRI tools | - | <http://www.rri-tools.eu>  |
| European Commission. Responsible Research and Innovation. Europe's ability to respond to societal challenges. | - | <https://ec.europa.eu/research/swafs/pdf/pub_public_engagement/responsible-research-and-innovation-leaflet_en.pdf>  |
| Optional literature (at the time of submission of study programme proposal) | Office of Research Integrity. General resources. Dostupno na: <http://ori.hhs.gov/general-resources-0>. |
| 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) |  |