| NAME OF THE COURSE | Interaction Design Methodology | | | | | |
|--|--|--|---|--|---|------------------------------------|
| Code | PMIH40 | Year of study | GU- UG | -1 U-3 | | |
| Course teacher | prof.dr. sc. Andrina Granić | Credits (ECTS) | 5,0 | | | |
| Associate teachers | doc.dr. sc. Nikola Marangunić | Type of instruction (number of hours) | L 30 | S | E 30 | F |
| Status of the course | elective | Percentage of application of e-learning | 25 | | | |
| COURSE DESCRIPTION | | | | | | |
| Course objectives | Acquisition of fundame Interaction Design (ID support people in their and social aspects of date design approache interface paradigms. | ental knowledge related to) defined as the design of r everyday and working liv users, interaction styles, u es, usability and evaluatio | the in intera es, in ser re n, trac | nterdisci active pro cluding equireme ditional a | plinary fi oducts to psycholo ents, up- and futur | ield of o ogical to- e |
| Course enrolment requirements and entry competences required for the course | No formal prerequisites, but it would be preferable if students have already acquired basic knowledge from the course Human-Computer Interaction I: Fundamental Principles. | | | | | |
| Learning outcomes expected at the level of the course (4 to 10 learning outcomes) | Interaction Design (ID) field. 2. Decide on and critically evaluate selection of adequate methods for the design of user-centred interactive products (different phases of information collection, planning, prototyping and evaluation). 3. Critically evaluate positive and negative aspects of different design methods from the HCI field to be used in interactive product development. 4. Compare and decide on adequate methodology for interactive product evaluation. 5. Argue on the role of available HCI methods in system development. 6. Use case: critically evaluate reasons for the development of interactive system /product; identify context of use and collect all relevant information in relation to the goal; produce personas, scenarios of use and low fidelity prototypes; apply adequate user-centred design methods; produce high fidelity prototypes; decide on and employ adequate evaluation approach. | | | | | |
| Course content broken down in detail by weekly class schedule (syllabus) | Lectures: 1. Interaction Design (2. Short chronology or 3. Usability, user expect 4. Designing for user of 5. Research methods: interactions (2h) 6. Invited lecture (2h) 7. Interaction Design r implementation4h) 8. Personas and scen 9. Sketching, low and 10. Participatory design 11. Methods and appr 12. The future of Interaction Exercises: | (ID): definitions and fundar in interaction design (2h) erience, quality in use (2h) experience (2h) troisualization of information model: user-centred design arios (2h) high fidelity prototypes (21 gn (2h) oaches to interaction eval action Design (4h) | menta on, into n, pro ח) uatior | ll princip erfaces totyping n (4h) | les (2h) and , evaluat | iion, |

| | Introduction to co gained knowledge a individual and group Introduction to in technologies; new i interaction design e Presentations of discussion. Accessibility – de usability; disability of | ourse ex and skil p tasks; teractio nterface example the 1. in esign fo categori | kercises Is; topic grading n desig es; 1. in es). ndividua r all and ies and | s – gene s which g. n – digi dividua al stude d univer examp | erally at n will be tal artef I task fo ent tasks rsal acco les of a | oout structure of exer covered; work flow; facts design; new or students (analysis s – analysis and essibility; accessibilit ccessible interaction | of 3 ty and |
|---|---|--|--|---|--|--|----------------|
| | designed for disabilities categories). 5. Presentations of the 2. individual student tasks – analysis and discussion. | | | | | 5 | |
| | 6. Understanding users – emotional aspects; emotional interfaces; persuasive technologies; anthropomorphism; virtual agents and characters; virtual learning assistants. 7. User experience design – 5 design levels; user needs; creation of the | | | | | | |
| | "personas". 8. Introduction to group project – design, evaluation and implementation of interactive object interface; analysis of current examples. 9. Selection of the concept for interactive object – group work. 10. Making a prototype of the interactive object interface – group work. 11. Evaluation of the interactive object interface – group work. 12. Group presentations of conducted evaluation – analysis and discussion. 13. Defining necessary changes on interactive object interfaces – group work. | | | | ion of k. ussion. up | | |
| | 14. Implementation of necessary changes on interactive object interfaces – group work. 15. Group projects – final presentations of student projects | | | | aces – | | |
| Format of instruction | ☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia ☑ exercises ☑ laboratory □ on line in entirety □ work with mentor □ partial e-learning □ homework assignments □ field work □ | | | | | | |
| Student responsibilities | Active participation in all activities: lectures, consultations, searching the literature, individual work in the assigned project and given use case; final oral exam | | | | | | |
| | Name | Ects | Na | me | Ects | Name | Ects |
| Screening student work | Class attendance | 1 | Resea | ırch | | Experimental work | |
| (name the proportion of ECTS credits for each | Oral exam 1 Report Homework assignments | | | | | | |
| activity so that the total number of ECTS credits is equal to the ECTS value of | Seminar essay | | Essay | | | | |
| the course) | Tests | | Practio trainin | Practical , training | | | |
| | Written exam | 1 | Projec | :t | | | |

| Grading and evaluating student work in class and at the final exam | | | | | |
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| Required literature (available in the library and via other media) | Title | Number of copies in the library | Availability via other media | | |
| | J. Preece, Y. Rogers, H. Sharp: Interaction Design: Beyond Human- Computer Interaction, John Wiley & Sons, 4th Edition, 2015. | 2 | | | |
| | D. Saffer: Designing for Interaction, Second Edition: Creating Innovative Applications and Devices, New Riders, 2010. | 0 | da | | |
| Optional literature (at the time of submission of study programme proposal) | 1. D. Norman: Emotional Design: Why We Love (or Hate) Everyday Things, Basic Books, 2005. 2. B. Shneiderman: Human Needs and the New Computing Technologies, MIT Press, 2003. Svi nastavni materijali dostupni on-line, uključujući i dodatnu znanstvenu literaturu | | | | |
| Quality assurance methods that ensure the acquisition of exit competences | student discussion, anonymous student evaluation questionnaire, student success rate, self-assessment | | | | |
| Other (as the proposer wishes to add) | | | | | |