

# Opetustarjonta 2019-2020

Tiedekunta Informaatioteknologia ja viestintä

Tutkinto-ohje Tietojenkäsittelytieteiden tutkinto-ohjelma

2019-2020 opetus suunnitelman opintojaksot ja vastuuopettajat sekä opetustarjonnan suunnitelma lukuvuodeksi 2019-2020

19.3.2019/13.3.2019/HR

| Maisterivaiheen jaksot                                  |  | esitys     |                    | opetusperiodi |     |    |               |  |
|---|--|------------|--------------------|---------------|-----|----|---------------|--|
| koodi   | Opintojakso  | lv 2019-20 | I                  | II            | III | IV | kesä-elo 2020 |  |
| <b>Yhteisiä ja täydentäviä tai valinnaisia opintoja</b> |  |            |                    |               |     |    |               |  |
| LUO/HTI   | Orientation  | x          | x                  |               |     |    |               |  |
| LUO/HTI   | Study Skills   | x          | x                  |               |     |    |               |  |
| LUO/HTI   | Personal Study Planning  | x          | x                  | x             | x   | x  |               |  |
| TIEVA36   | Principles of Usability, User Experience and User Interfaces, 5 op | x          | x                  | x             | x   | x  |               |  |
| TIEHO   | Harjoittelu, 2-10 op   | x          | x                  | x             | x   | x  | x             |  |
| <b>Syventäviä opintoja TIM, SDE ja CBDA</b>             |  |            |                    |               |     |    |               |  |
| TIETS01   | Algorithms, 5 op   | -          |                    |               |     |    |               |  |
| TIETS02   | Automaatit I 5 op  | x          |                    |               |     | x  |               |  |
| TIETS03   | Automaatit II 5 op   | -          |                    |               |     |    |               |  |
| TIETS09   | Algorithmic Problem Solving 5 op                                   | x          | x                  | x             | x   | x  |               |  |
| TIETS11   | Data mining, 5 op  | x          |                    |               | x   |    |               |  |
| TIETS05   | Kuvanprosessointi 5 op   | -          |                    |               |     |    |               |  |
| TIETS39   | Machine Learning Algorithms, 5 op                                  | x          |                    |               |     | x  |               |  |
| TIETS07   | Neurocomputing, 5 op   | -          |                    |               |     |    |               |  |
| TIETS48   | Introduction to Heuristic Optimization                             | -          |                    |               |     |    |               |  |
| TIETS17   | Requirements Engineering, 5 op                                     | x          | x                  | (x)           |     |    |               |  |
| TIETS14   | Introduction to Formal Specification, 5 op                         | x          |                    | x             |     |    |               |  |
| TIETS47   | Functional Programming II, 5 op                                    | -          |                    |               |     |    |               |  |
| TIETS46   | Distributed Systems  | x          |                    |               | x   |    |               |  |
| TIETS19   | Software Project Management, Theory 3 op, sähköinen tentti         | x          | x                  | x             | x   | x  |               |  |
| TIETS19   | Software Project Management, Practice, 7 op, Fall term             | x          | x                  | x             |     |    |               |  |
| TIETS19   | Software Project Management, Practice, 7 op, Spring term           | x          |                    |               | x   | x  |               |  |
| TIETS16   | Programming Project, 5 op  | -          |                    |               |     |    |               |  |
| TIETS18   | Master's Thesis Seminar in Software Development, 2-5 op            | x          | x                  | x             | x   | x  |               |  |
| TIETS21   | Graduseminaari, 5 op   | x          | x                  | x             | x   | x  |               |  |
| TIETS40   | Managing e-commerce; Consumers and Community Perspective           | x          |                    | x             |     |    |               |  |
| TIETS41   | Managing industrial e-business and B2B                             | x          |                    |               | x   |    |               |  |
| TIETS25   | Tietostrategian kirjatentti, 10 op                                 | x          | x                  | x             | x   | x  |               |  |
| TIETS24   | Tietojärjestelmien suunnittelumenetelmät, 10 op                    | x          | x                  | x             |     |    |               |  |
| TIETS35   | Laadullinen tutkimus - menetelmät ja prosessi, 5-10 op             | -          |                    |               |     |    |               |  |
| TIETS31   | Knowledge Discovery, 5-10 op                                       | x          | x                  | x             |     |    |               |  |
| TIETS43   | Recommender Systems 5 op   | x          |                    | x             |     |    |               |  |
| TIETS44   | Big Data Entity Resolution 5 op                                    | x          |                    |               | x   |    |               |  |
| TIETS26   | Käsitteellinen mallintaminen I, 5-10 op                            | -          |                    |               |     |    |               |  |
| TIETS32   | XML ja rakenteiset dokumentit, 5 op                                | x          |                    |               |     | x  |               |  |
| TIETS34   | Seminaari (tko), 5 op  | -          |                    |               |     |    |               |  |
| TIETS33   | Advanced Course in Computer Science, 1-10 op                       | (x)        |                    |               |     |    |               |  |
| TIETS36   | Tutkimusprojekti, 1-10 op, erikseen sovittava                      | (x)        |                    |               |     |    |               |  |
| TIETS37   | Pro gradu -tutkielma, 40 op  | x          | x                  | x             | x   | x  | x             |  |
| <b>Opintojaksot HTI</b>                                 |  |            |                    |               |     |    |               |  |
| koodi   | Opintojakso HTI  | 2019-2020  | I                  | II            | III | IV | kesä-elo 2020 |  |
| HTIS86  | Fundamentals of Human-Technology Interaction                       | x          | (elokuu)           |               |     |    |               |  |
| HTIS81  | Usability Evaluation Methods                                       | x          | x                  | x             |     |    |               |  |
| HTIS79  | Multimodal Interaction   | x          | x                  | x             |     |    |               |  |
| HTIS85  | Methods in Human-Centered Design                                   | x          |                    |               | x   | x  |               |  |
| HTIS54  | Emotions and Sociality in Human-Technology Interaction             | x          |                    |               | x   |    |               |  |
| HTIS60  | Interaction Techniques   | x          |                    |               | x   | x  |               |  |
| HTIS56  | Haptic User Interfaces   | x          |                    | x             | x   |    |               |  |
| HTIS59  | Information Visualization  | x          |                    |               | x   | x  |               |  |
| HTIS52  | Research Methods in HTI, sähköinen tentti                          | x          | x                  | x             | x   | x  |               |  |
| HTIS84  | Human-Technology Interaction Project Work                          | x          | x                  | x             |     |    |               |  |
| HTIS53  | Experimental Research in Human-Technology Interaction              | x          |                    |               |     | x  |               |  |
| HTIS50  | Advanced Course in Human-Technology Interaction                    | x          | Useita toteutuksia |               |     |    |               |  |
| HTIS64  | Master's Thesis Seminar in Human-Technology Interaction            | x          | x                  | x             | x   | x  |               |  |
| HTIS65  | Pro gradu -tutkielma, 40 op  | x          | x                  | x             | x   | x  | x             |  |
| <b>Hervannan kampukselta</b>                            |  |            |                    |               |     |    |               |  |
| TIE-40107   | Psychology in Human-Technology Interaction                         | x          | 1                  |               |     |    |               |  |
| TIE-43106   | User Experience: Design and Evaluation                             | x          |                    | 2             | 3   |    |               |  |
| TIE-40207   | Cross-Cultural Design  | x          |                    |               | 3   |    |               |  |
| TIE-41206   | Human-Centered Product Development                                 | x          |                    |               | 3   | 4  |               |  |
| TIE-41506   | User Experience in Robotics  | x          |                    | 2             |     |    |               |  |

Huom. Periodit 2-3  
Huom. korjataan, että HTIS52 kirjatentti on suositeltu edeltävyys, ei pakollinen.