



## VAASAN YLIOPISTON TUTKIJAKOULUN OPETUSTARJONTA 2019-2020

### COURSES OFFERED AT THE GRADUATE SCHOOL 2019-2020

#### Syksy/Autumn 2019

- TOFO4003 Research Seminar 5 ECTS
- TOFO4026 Managing Doctoral Research 3 ECTS
- TOFO4011 Tutkimusetiikka 3 op
- TOFO4040 Researcher's skills /Tutkijan taidot 1 ECTS
- TOFO4041 Tutkijan sosiaalinen media 1 op
- TOFO4049 Open Science (online course) 1 ECTS
- TOFO4032 Qualitative Research Methods (continues in spring) 5 ECTS
- TOFO4053 Writing Research Grant Proposal (online course) 1 ECTS
- TOFO4054 Academic Writing in Social Sciences 5 ECTS
- TOFO4055 Project Management for Doctoral Research (online course) 2 ECTS
- STAT 3140 Applied Multivariate Statistics 5 ECTS
  
- (TOFO4031 Graduate School Method Seminar (to be announced) 1 ECTS
- TOFO4038 Seminar of the Graduate School: (to be announced) 1 ECTS )

#### Kevät/Spring 2020

- TOFO4026 Managing Doctoral Research 3 ECTS
- TOFO4002 Philosophy of Science and Critical Thinking 5 ECTS
- TOFO4011 Research Ethics 3 ECTS
- TOFO4020 Writing Better Academic English 3 ECTS
- TOFO4040 Researcher's skills /Tutkijan taidot 1 ECTS
- TOFO4041 Social media for researchers 1 ECTS
- TOFO4049 Open Science (online course) 1 ECTS
- TOFO4032 Qualitative Research Methods 3 ECTS (continues from autumn)
- TOFO4052 Big Data and Social Media Research 3 ECTS
- TOFO4053 Writing Research Grant Proposal (online course) 1 ECTS
- TITE4030 Information Systems Theories 5 ECTS
  
- (TOFO4031 Graduate School Method Seminar/Tutkijakoulun metodiseminaari 1 ECTS)
- (TOFO4038 Seminar of the Graduate School/Tutkijakoulun seminaari/ 1 ECTS)

4.3.2020/ayh



## Syksy/Autumn 2019

### TOFO4003 Research Seminar

**Credits:** 5 ECTS

**Schedule:** Academic year 2019–2020, a monthly meeting on the second Monday of month, from 4 to 6 pm: 9 Sep, 14 Oct, 11 Nov, 9 Dec, 13 Jan, 10 Feb, 9 March, 6 April and 11 May

**Venue:** Autumn 2019 classroom D218 and spring 2020 classroom A213 in Tervahovi

**To whom:** This seminar is specifically meant for those doctoral students who have already started to produce text for the thesis. The Research Seminar of the Graduate School is supplementary education that does not substitute the postgraduate seminar of the student's major subject.

**Learning outcomes:** The seminar supports researchers especially in issues of argumentation and scientific writing. It also helps to understand methodological and ethical issues and problems related to scientific research. On completing this seminar, students will have made progress in writing their doctoral theses and will understand methodological and ethical issues and problems related to scientific research.

**Content:** This research seminar offers a forum for the doctoral students of the University of Vaasa to present and develop their own research.

In the first meeting, the schedule for paper presentations and acting as an opponent is settled. In each seminar meeting, two or three papers are discussed.

**Modes of study:** Active participation

**Language:** English

**Grading:** Pass/fail

**Teacher:** Professor Tommi Lehtonen

**Organisation in charge:** The Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up in 26 August 2019

**Additional requirements:** the maximum number of students is 10, at least one year of research experience is expected

### TOFO4049 Open Science

**Credits:** 1 ECTS

**Place:** [Moodle](#)

**Timing:** All year. Course opens up in 2.9.2019 in [www.findocnet.fi](http://www.findocnet.fi), registration with you HAKA account. Select Open Science. Learning diaries (written assignments) are evaluated twice a year: deadlines for the assignments are **6.1.2020** and **31.5.2020**.



**To whom:** Doctoral students in all fields. The course is particularly suitable for doctoral students at the initial phase of their doctoral studies.

**Learning Outcomes:** After completing this course the student can explain principles and benefits of open science; tell the different options of open access and their benefits; describe open data and open data policies; and define the opening of a research process.

**Content:** The course is designed as an introduction to Open Science and Research principles and practices for doctoral students new to Open Science and Research. The course resource introduces principles, concepts, and new ways of doing research with the view that at every step the learning can be related to the research the learner is working on.

**Study Materials and literature:** Open Science Online Resource <https://findocnet.fi> > Open Science. Registration with you HAKA account. Select Open Science. Instructions and the return box for the learning diary (written assignment) are in the University of Vaasa's Moodle <https://moodle.uwsa.fi>. Look for the course: Open Science (2019-2020). Log in with your HAKA account and with course key: OS\_UWA.

**Modes of Study:** Active participation in the online course and a learning diary style written assignment based on the contents of the online course (3–4 pages).

**Language:** English (Finnish, Swedish). The online course resource is in English. The learning diary (written assignment) may be written in English, Finnish or Swedish.

**Grading:** Pass/fail

**Teacher:** DSocSci Katri Rintamäki, [katri.rintamaki@univaasa.fi](mailto:katri.rintamaki@univaasa.fi)

**Responsible Unit:** The Graduate School of the University of Vaasa and Tritonia

**Registration:** WebOodi, opens up in 26.8.2019.

## TOFO4053 Writing research grant proposals

**Credits:** 1 ETCS

**Timing:** All year.

Written assignments are evaluated twice a year: deadlines for the assignments are 1.1.2020 and 1.6.2020. If you wish to have your credit point registered earlier, please contact the teacher.

**To whom:** Doctoral students in all fields. The course is particularly suitable for doctoral students at the initial phase of their doctoral studies.

**Learning Outcomes:** A research funding proposal is an overall process including several elements. Their identification helps you to plan your proposal and clarify the timetable for the writing task. You can always improve your writing skills, but by going through this course material and completing the given tasks, you can achieve the first milestone in grant writing skills. The course will provide you with practical tips and strategies for grant writing.

**Content:** The course consist of five parts: The grounds for grant writing, Funding sources, Impact and implementation, Abstract and Mobility and networking. Log in with you haka-account: <https://findocnet.fi/course/view.php?id=91>, course key **Grant Writing**.



**Study Materials and literature:** Materials are in Moodle.

**Modes of Study:** Completing all the assignments of the course in Moodle.

**Language:** The Moodle online course is in English. The written assignments may be written in English or in Finnish.

**Grading:** Pass/fail

**Teacher:** D.Sc. Virpi Juppo

**Responsible Unit:** The Graduate School of the University of Vaasa and Research Services

**Registration:** WebOodi, opens up in 26.8.2019

## TOFO4055 Project Management for Doctoral Research

**Credits:** 2 ECTS

**Timing:** Autumn, Period 16.9.2019 - 30.11.2019

**Place:** [Moodle](#)

**To whom:** Doctoral students in all fields.

**Learning outcomes:** By the end of this course, students should have understanding of project management in doctoral research. The course includes five different modules, which complete each other's. Modules are (1) Basics of Project Management, (2) Leading Projects and People, (3) Project Teams and Group Characteristics, (4) Multicultural Working Environment and (5) Project Communication and Interaction. Every module includes an individual assignment. Moreover, course includes a miniproject, which students' needs to complete individually or team in order to pass the course. The course will support the development of students' project management skills from multiple aspects. The course will also develop student's written skills in English. Moreover, the course will facilitate critical and analytical thinking.

Login into the Moodle course (Project Management for Doctoral Research) with the key TOFO4055-PM and start learning. Good luck!

**Prerequisites:** -

**Content:** Topics, which are covered in this course are basics of project management, leading projects and people, project teams and group characteristics, multicultural working environment and project communication and interaction

**Study materials and literature:** Material in the Moodle

**Modes of study:** Online

**Language:** English

**Grading:** Pass/Fail

**Teacher:** Jussi Kantola, Professor, School of Technology and Innovations

**Responsible unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up 26.8.2019

## TOFO4026 Managing Doctoral Research

**Credits:** 3 ECTS

**Timing:** 2.-3.10.2019 at 10:15-17:00

**Place:** D218, Tervahovi



**To whom:** Doctoral students in all fields. The course is particularly suitable for doctoral students in the Doctoral Programme in Business Studies.

**Learning Outcomes:** The course covers practical aspects of doctoral studies. The objective of this course is to introduce the doctoral students to the realities of doing scientific research and to give practical advice on doctoral studies and the process of writing a doctoral dissertation. The course will also provide an overview of the basic structure of research and the identification and selection of research topics. The course is particularly suited for doctoral students at the initial phases of their doctoral studies.

**Content:** Dissertation process, structure of research, reading and analyzing scientific papers, identification and selection of research topics, formulation of research questions, formulation of research hypotheses, contribution requirements for a doctoral dissertation, monograph vs. collection of essays, requirements for essay collections, finding information, writing a paper, publishing process in refereed journals, advice on conference participation, doctoral job market.

**Study Materials and literature:** As instructed by the teacher

**Modes of Study:** Active participation

**Language:** English

**Grading:** Pass/fail

**Teachers:** Professor Sami Vähämaa

**Responsible Unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up in 26.8.

## TOFO4011 Tutkimusetiikka

**Laajuus:** 3 op

**Ajoitus:** Verkkokurssi 1.11.–2.12.2019. **Pakollinen läsnäolo työpajapäivänä 22.11. klo 8-16**

**Paikka:** Tervahovi A213

**Kenelle:** kaikille jatko-opiskelijoille

**Osaamistavoitteet:** Kurssin päätteeksi, tohtoriopiskelija osaa: 1. Tunnistaa ja analysoida keskeisiä tutkimuseettisiä kysymyksiä. 2. Muotoilla eettisiä tutkimussuunnitelmia ja vastata eettisiin haasteisiin käyttämällä eettisiä teorioita ja lähestymistapoja. 3. Tunnistaa ja ymmärtää keskeiset tutkimuseettiset periaatteet ja kuinka ne vaikuttavat tutkimustyöhön. 4. Ymmärtää Tutkimuseettisen neuvottelukunnan ohjeet, prosessit tutkimusvilpin tutkinnassa, sekä tutkimuslupien ja eettisen lautakuntien toiminnan periaatteet ja käytänteet. 5. Tunnistaa tutkijan oikeudet ja velvollisuudet. 6. Ymmärtää kuinka eettiset päätökset vaikuttavat yhteiskuntaan ja tutkimusyhteisöön.

**Sisältö:** Kurssi koostuu neljästä osasta. Osat ovat itsenäisiä ja seuraavat normaalia tutkimuskaarta. Osat rakentuvat teoreettisesti niin, että niiden suorittaminen on helpointa annetussa järjestyksessä. Jokainen osio sisältää verkkoluentoja, kirjallisuutta ja arviointitehtäviä. **Osa A:** Eeettinen teoria ja tutkimusetiikan merkitys: Tämä osa keskittyy kehittämään kykyä tunnistaa ja analysoida tutkimuseettisiä kysymyksiä. Tässä osiossa opiskelijaa ohjataan katsomaan tutkimuseettisiä kysymyksiä eri näkökulmista käyttäen eettisiä teorioita sekä vertailemaan kuinka teorit soveltuvat sekä oman tutkimuksen että tutkimusalan eettisten kysymysten ymmärtämiseen. **Osa B:** Tutkimussuunnittelu: Tämä osa keskittyy tutkimuksen suunnitteluvaiheen eettisiin kysymyksiin. Näitä ovat esimerkiksi tiedonhankinta ja -hallinta, eturistiriidat, eettiset luvat tai eettiset arviot, datan omistaminen, yhteistyö, tutkimusrahoituksen hakeminen sekä tutkimustulosten julkaisemisen suunnittelu. Opiskelijat lähestyvät tätä suunnitteluvaihetta eettisistä kysymyksistä käsin ja oppivat tunnistamaan eettisiä kysymyksiä sekä omassa tutkimuksessaan, että tutkimuksessa yleisesti. **Osa C:** Tutkimustyö: 5/16 Tämä osa keskittyy varsinaisen tutkimustyön eettisiin kysymyksiin. Näitä



ovat esimerkiksi tutkimustiedon kerääminen, yhteistyön ja avoimuuden määrittely, ohjaus, sekä vääristely ja sepittäminen vilpin eri muotoina. Opiskelijat analysoivat näitä kysymyksiä niiden ehkäisemisen näkökulmasta omassa työssään sekä tutkimustyössä yleisemmin sekä tutkimuseettisten ohjeiden mukaisesti että myös eettisten periaatteiden kautta. Osa D: Tutkimustulosten julkaisu: Tämä viimeinen osa keskittyy tutkimustulosten julkaisemiseen liittyviin kysymyksiin. Tähän osioon kuuluu eettisiä kysymyksiä liittyen plagiointiin ja anastamiseen, kirjoittajuuteen, vertaisarvointiin sekä tutkimusfoorumien valintaan. Opiskelijat lähtevät oman tutkimuksensa näkökulmasta ja laajentavat ajattelua tutkimustulosten julkaisemiseen tutkimusyhteisön yhteisenä eettisenä kysymyksenä.

**Kirjallisuus:** Kaikki kirjallisuus löytyy sähköisessä muodossa kurssin verkkosivuilta, kirjautumisohjeet lähetetään ilmoittautuneille

**Suoritustapa:** Verkkotehtävät, luennolla pe 22.11. pakollinen läsnäolo

**Arviointi:** Hyväksytty/hylätty Opetus: 8h. luentoja

**Opetuskieli:** Suomi

**Opettaja:** PhD Henriikka Mustajoki

**Vastuuorganisaatio:** Vaasan yliopiston tutkijakoulu

**Ilmoittautuminen:** WebOodi, aukeaa 26.8.

## TOFO4032 Qualitative Research Methods

**Credits:** 5 ECTS

**Timing:** Opening session 13.11.2019, closing session in May 2020, 5 workshops in between.

### *Autumn 2019*

13.11. at 10-12, 13-16, Fab. room F268, Niina Koivunen, Tanja Sihvonen

14.11. at 13-16, Fab. room F250, Tanja Sihvonen

10.12. at 12-16, Terv. room D115, Rodrigo Rabetino

### *Spring 2020*

4.2. at 12-16 Fab. room F251, Jenni Kantola

18.2. at 12-16 Fab. room F249, Henna Syrjäjä ja Lotta Alhonnoro

16.3. at 12-16 Fab. room F251, Hannele Kerosuo

16.4. at 12-16 Fab. room F345, Merja Koskela, Heidi Hirsto

26.5. at 13-15 Fab. room F345, Closing session Koivunen, Sihvonen

**To whom:** Doctoral students who have a basic understanding of qualitative methods

**Learning outcomes:** The student is familiar with the basics of qualitative research as well as the most important qualitative methods. S/he has an understanding of how qualitative methods relate to the traditions of different research fields. S/he is able to assess the suitability of different methods for her own research.

**Content:** The course offers an opening lecture about the nature of qualitative methods, five workshops on different methods and a concluding lecture. The workshops concentrate on one research method (discourse analysis, narrative analysis, visual analysis, ethnography and configurative comparison method) and are taught by different teachers. Each student is required to participate in four workshops.

The special theme of the course is qualitative methods in a digitalized world. The digitalization opens new possibilities to collect research material, to follow business, cultural and political as well



as group and individual discussion. Marketing and business are part of the digitalized reality. Digitalization has changed the whole field of communication by creating a new arena for transaction, political and individual life. We will explore what does digitalization mean, how does it affect our research (is meaning creation different in a digital world?) and how can we use different digital arenas to collect research material.

**Pre-assignment:**

When registering to the course, please prepare a 1-2 page text about the following topics. 1. Write a short description of your research, including research questions, key literature and research design. 2. Explain your previous experience of qualitative research methods. Send to [anne.yli-hallila@uwasa.fi](mailto:anne.yli-hallila@uwasa.fi) by October 16, 2019.

**Study materials and literature:**

Berger, Peter & Luckmann, Thomas (1967). *The Social Construction of Reality: A Treatise in the Sociology of Knowledge*. Doubleday.  
Silverman, David (2011). *Qualitative Research. Issues of Theory, Method and Practice* (3rd ed.) OR Eriksson, Päivi & Kovalainen, Anne (2008/2016). *Qualitative Methods in Business Research*; London: Sage, (1st or 2nd ed.).  
Kozinets, Robert (2016) *Netnography: Redefined*. 2nd Ed. Sage.

**Modes of study:** Active participation in workshops and lectures, pre-assignment, learning diary after each workshop, final essay.

**Language:** English

**Grading:** 1-5

**Teachers:** Associate Professor Niina Koivunen and Professor Tanja Sihvonen

**Responsible unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi in 26.8.

**Maximum number of students:** 20

(Students are selected to the course based on the pre-assignment)

## TOFO4054 Academic Writing in Social Sciences

**Credits:** 5 ECTS

**Timing:** Two days in autumn 2019 and two days in Spring 2020

17.10.2019, 11.15–17.00, Tervahovi, D103

18.10.2019, 9.15–15.00, Tervahovi, D103

29.4.2020, 11.15–17.00, Tervahovi, D102

30.4.2020, 9.15–15.00, Tervahovi, D102

**To whom:** For doctoral students with some experience on writing in social sciences (Management, Marketing, Industrial Management). Perhaps optimal for a phd student in the second year of phd program when a student has written already one or two conference papers. Course is targeted for social sciences, and focuses on paper writing in topics using critical realist, social constructionist, interpretivist, critical or subjectivist methodological positioning, and therefore not positivist (hence topical issues from finance and technology would be excluded, as the writing style separates significantly from that of found in more social constructionist fields, e.g. Management, Marketing, Industrial Management).



**Learning Outcomes:** 1. Learn how to structure academic article 2. Learn about motivating and positioning of an article 3. Improve argumentation skills 4. Familiarize with emerging trends on qualitative and quantitative research 5. Critically evaluate own and others writing. 6. Familiarize with different approaches of writing articles. 7. Writing one conceptual/qualitative/quantitative short paper that have the scientific standard to be presented at an academic conference or published in an academic journal. The goal is that in the second part of the course there would be already clearly advanced, writing a preliminary shorter version of the full paper.

**Content:** This course is organized as a forum for improving participants writing of research articles and understanding the critical elements of publishing. Particular emphasis is placed on questions of theoretical contribution and creation of a credible argumentation structure. Selected readings cover a variation of articles about academic writing in social sciences, how to craft introduction, theory, method, results and discussion, but also how to argue theoretical contribution, use previous research in the argumentation, and craft the storyline for your article. In addition we approach topics, such as how to find impact with your research, how to get cited, and such useful guidance for academic career.

Participants will get feedback from the assignments that should be written for the course and returned to Moodle: [Academic Writing in Social Sciences](#) (Course key: AW). Course assignments include and will be graded:

1. Extended abstract of max 3 pages by which you also apply for the course (Hence, **deadline for this is 15.9.2019**), (including everything, line spacing 2, Times new roman, 12pt), and verbal presentation in the seminar (slides can be used, presentation max 10 minutes + 20 minutes for the discussion / failure to comply leads to rejection)  
Please prepare an extended abstract of the planned article where you should present at least the following issues: Title of the paper, Introduction, Theory, Method, Results (perhaps planned results) and some discussion about the planned contribution.
2. Short full paper of max 20 pages (including everything, line spacing 2, Times new roman, 12pt), and verbal presentation in the seminar (slides can be used, presentation max 10 minutes + 20 minutes for the discussion / failure to comply leads to rejection)
3. A written, critical but constructive review statement about other student's full paper (paper to be reviewed is assigned in the first course seminar) (Review statement of max 3 pages including everything, line spacing 2, Times new roman, 12pt / failure to comply leads to rejection),
4. Oral review feedback in the final research seminar and general participation in the discussion

**Study Materials and literature:** See course [Moodle](#) (Course key: AW)

**Modes of Study:** 1. Extended abstract (Pre-assignment) + presentation, 2. short full paper + presentation, 3. written review statement, 4. given oral review comments and active participation

**Language:** English

**Grading:** pass / fail

**Teachers:** Professors Marko Kohtamäki (marko.kohtamaki@uva.fi) and Vinit Parida

**Responsible Unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up in 26.8.

**Maximum number of students: 15**

(students are selected to the course based on the pre-assignment)

## STAT3140 Applied Multivariate Statistics

**Credits:** 5 ECTS

**Timing:** Autumn 2019

**Place:**





**Prerequisites:** Basic statistics (STAT1020 or STAT1030) and Statistical analysis of contingency and regression (STAT1010), or equivalent.

**Objectives:** The participants will learn from practitioners' point of view principles of summarizing (multivariate) statistical data; the importance of statistical sampling in statistical inferences; issues present in survey sampling measurements and types of data; statistical methods, their purposes, major assumptions underlying different methods, and interpreting empirical results of different statistical analyses. The emphasis is in applications of multivariate statistical techniques to data analysis using SAS package, learn to know and utilize the potential of the package and interpret the analysis results of different approaches meaningfully. Course develops critical and analytical thinking, oral and written communication of statistical analysis results and IT skills (SAS software).

**Content:** The course covers issues related to requirements on data suitable for statistical analyses, overview of data collection, statistical software packages (SAS in particular), summarizing (multivariate) data, non-technical overviews and practical applications of major (multivariate) statistical methods including regression analysis (RA), principal component analysis (PCA) and other dimension reduction methods, exploratory factor analysis (EFA), cluster analysis (CA), discriminant analysis (DA), correspondence analysis, classification, prediction and regression regression trees.

**Study Materials and literature:** Instructed by the teacher

**Teaching methods:** 42 h teaching, 12 h exercises, 81 h student homework (Industrial System Analytics students are required to accomplish an industry related project work which is part of the exercises and homework, and is supervised by the Department of Production).

**Modes of Study:** Exam and industry related project work for students in the Industrial System Analytics Program supervised by the Department of Production.

**Language:** English

**Teacher:** Professor Seppo Pynnönen

**Responsible Unit:** Department of Mathematics and Statistics

**Registration:** WebOodi

**Additional information:** course is also open to Vaasa University's doctoral students as a method studies. Please agree with your supervisor if you want to include this course to your personal study plan (PSP.)

## TOFO4041 Tutkijan sosiaalinen media

**Laajuus:** 1 op

**Ajoitus:** 9.10.2019, klo 12-16

**Paikka:** A201, Tervahovi

**Kenelle:** Kurssi sopii kaikille jatko-opiskelijoille sekä tutkijoille.

**Osaamistavoitteet:** Kurssille osallistuja tuntee sosiaalisen median välineet, ymmärtää sosiaaliset median hyvät ja huonot puolet ja osaa käyttää sosiaalista mediaa vaikuttavasti ja aikaa säästäen.

**Sisältö:** Kurssilla esitellään tutkijoiden kannalta oleelliset sosiaalisen median kanavat ja punnitaan sosiaalisen median vahvuudet, heikkoudet, mahdollisuudet ja uhat. Pohdimme yhdessä, mitä hyötyä sosiaalisesta mediasta on akateemisella urapolulla ja lisäksi esimerkiksi tutkimustulosten esittely sosiaalisessa mediassa artikkeliviittauksia. Kurssilla kokeillaan myös sosiaalisia medioita käytännössä ja syvennytään myös tutkijoille suunnattuun (esim. Researchgate) sosiaaliseen mediaan. Tavoitteena on, että kukin osallistuja saa itselleen välineitä sosiaalisen median käyttöön tutkijana.



Kurssilla mahdollisesti vierailija, joka kertoo kokemuksistaan tutkijana ja Twitterissä: miten brändätä omaa asiantuntemustaan ja rakentaa verkostoja.

**Kirjallisuus:** Ilmoitetaan myöhemmin

**Suoritustapa:** Osallistuminen luennoille ja blogi-tehtävä

**Arviointi:** Hyväksytyt/hylätyt

**Opetuskieli:** Suomi

**Opettaja:** Tutkimusviestinnän asiantuntija Riikka Kalmi ja vieraileva asiantuntija.

**Vastuuorganisaatio:** Vaasan yliopiston tutkijakoulu/Viestintä

**Ilmoittautuminen:** WebOodissa 26.8. alkaen

## TOFO4040 Researcher's skills /Tutkijan taidot

**Credits:** 1 ECTS

**Timing:** See timetable for the courses: [www.tritonia.fi/fi/lyhytkurssit](http://www.tritonia.fi/fi/lyhytkurssit).

**To whom:** To all doctoral students.

**Learning outcomes:** Doctoral students can choose the most suitable courses for to support their research work. After the lectures, doctoral students can use these skills to make their research work more effective.

**Content:** Based on the doctoral students' choices, e.g. Word/Excel as a researcher's tool, Open science and research, Tutkimuksen tiedonhankinta, Tutkimuksen aineistonhallinta 1 & 2, Tieteellisen julkaisemisen arviointi are suitable courses for doctoral students.

**Study materials and literature:** As instructed by the teachers.

**Modes of Study:** Active participation in at least four the lectures and a learning diary, at least a page per lecture. More information on completing the course and writing the lecture diary:

[https://navi.uwasa.fi/communities/service/html/communityview?communityUuid=4d13a28e-c950-4432-b514-433061c1bafc#fullpage-WidgetId=Wcde5a2cb3ea6\\_4505\\_9565\\_4cc1dd61a1d4&file=5adf36d3-fc4b-497d-be58-59d3063e4791](https://navi.uwasa.fi/communities/service/html/communityview?communityUuid=4d13a28e-c950-4432-b514-433061c1bafc#fullpage-WidgetId=Wcde5a2cb3ea6_4505_9565_4cc1dd61a1d4&file=5adf36d3-fc4b-497d-be58-59d3063e4791)

**Language:** English, Finnish and Swedish, depending on the participants.

**Grading:** Pass/fail

**Teacher:** Varies. Please send your lecture diary to Virpi Juppo, [virpi.juppo@uva.fi](mailto:virpi.juppo@uva.fi)

**Responsible Unit:** The Graduate School of the University of Vaasa and Tritonia EduLab

**Registration:** [www.tritonia.fi/en/shortcourses](http://www.tritonia.fi/en/shortcourses). Register also in WebOodi before submitting your learning diary to get the credits.



## Kevät/Spring 2020

### TOFO4052 Big Data and Social Media Research

**Timing:** 13-14 Feb 2020; 13.2. at 9-17, 14.2. at 9-12  
**Place:** Tervahovi D103

**To whom:** Doctoral students in all fields interested in quantitative social media research, especially doctoral students in social science. Please note that the event is open to all our researchers.

**Learning outcomes:** Participants will learn how to obtain and analyze large-scale social media data sets to answer questions relevant to their field. In order to achieve this goal, they will be introduced to the use of R for content analysis with `quanteda` and `RTextTools`. They will also learn the fundamentals of interacting with social media platform APIs, as well as managing data and visualizing results.

**Prerequisites:** The course will assume general familiarity with R ([r-project.org](http://r-project.org)). Ideally, participants should be able to know how to read datasets in R, work with vectors and data frames, and run basic statistical analyses, such as linear regression.

**Content:** This class focuses on how the types of questions that are relevant to political science, sociology and communication studies may be approached using digital data from social media platforms in combination with innovative computational methods for content analysis ("big data" research). The platforms used as examples include Twitter, Facebook and YouTube, and the techniques covered will include sentiment analysis and supervised machine learning.

**Study materials and literature:** The course will use the open-source software R and the development environment RStudio, which greatly facilitates coding with R. Both R and RStudio are freely available and each participant should bring a laptop computer on which the current version of R and RStudio are preinstalled, and on which they have the necessary permissions to install packages.

**Modes of study:** The course will follow a hands-on approach, with short theoretical sessions followed by coding challenges where participants will need to apply new methods.

**Language:** English

**Grading:** Pass/Fail

**Teacher:** Dr. Cornelius Puschmann, <https://leibniz-hbi.de/en/staff/cornelius-puschmann>

**Responsible unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi opens at 4.9.2019



## TOFO4049 Open Science

**Credits:** 1 ECTS  
**Place:** [Moodle](#)

**Timing:** All year. Course opens up in 2.9.2019 in [www.findocnet.fi](http://www.findocnet.fi), registration with you HAKA account. Select Open Science. Learning diaries (written assignments) are evaluated twice a year: deadlines for the assignments are 6.1.2020 and **31.5.2020**.

**To whom:** Doctoral students in all fields. The course is particularly suitable for doctoral students at the initial phase of their doctoral studies.

**Learning Outcomes:** After completing this course the student can explain principles and benefits of open science; tell the different options of open access and their benefits; describe open data and open data policies; and define the opening of a research process.

**Content:** The course is designed as an introduction to Open Science and Research principles and practices for doctoral students new to Open Science and Research. The course resource introduces principles, concepts, and new ways of doing research with the view that at every step the learning can be related to the research the learner is working on.

**Study Materials and literature:** Open Science Online Resource <https://findocnet.fi> > Open Science. Registration with you HAKA account. Select Open Science. Instructions and the return box for the learning diary (written assignment) are in the University of Vaasa's Moodle <https://moodle.uwsa.fi>. Look for the course: Open Science (2019-2020). Log in with your HAKA account and with course key: OS\_UWA.

**Modes of Study:** Active participation in the online course and a learning diary style written assignment based on the contents of the online course (3–4 pages).

**Language:** English (Finnish, Swedish). The online course resource is in English. The learning diary (written assignment) may be written in English, Finnish or Swedish.

**Grading:** Pass/fail

**Teacher:** DSocSci Katri Rintamäki, [katri.rintamaki@univaasa.fi](mailto:katri.rintamaki@univaasa.fi)

**Responsible Unit:** The Graduate School of the University of Vaasa and Tritonia

**Registration:** WebOodi, opens up in 7.1.2020

## TOFO4026 Managing Doctoral Research

**Credits:** 3 ECTS  
**Timing:** 14.-15.05.2020 at 10:15-17:00  
**Place:** F104, Fabriikki

**To whom:** Doctoral students in all fields. The course is particularly suitable for doctoral students in the Doctoral Programme in Business Studies.

**Learning Outcomes:** The course covers practical aspects of doctoral studies. The objective of this course is to introduce the doctoral students to the realities of doing scientific research and to give practical advice on doctoral studies and the process of writing a doctoral dissertation. The course will also provide an overview of the basic structure of research and the identification and



selection of research topics. The course is particularly suited for doctoral students at the initial phases of their doctoral studies.

**Content:** Dissertation process, structure of research, reading and analyzing scientific papers, identification and selection of research topics, formulation of research questions, formulation of research hypotheses, contribution requirements for a doctoral dissertation, monograph vs. collection of essays, requirements for essay collections, finding information, writing a paper, publishing process in refereed journals, advice on conference participation, doctoral job market.

**Study Materials and literature:** As instructed by the teacher

**Modes of Study:** Active participation

**Language:** English

**Grading:** Pass/fail

**Teachers:** Professor Sami Vähämaa

**Responsible Unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up in 7.1.

## TOFO4041 Social media for researcher

**Credits:** 1 ECTS

**Timing:** wed 29.01.2020 at 12-16

**Place:** A213, Tervahovi

**To whom:** To all doctoral students

**Learning outcomes:** The course participant will be familiar with different social media tools, understands the pros and cons of social media in researcher's work and is able to use social media effectively.

**Content:** The course introduces most relevant social media channels for researchers. The strengths, weaknesses, opportunities and threats of social media are discussed. We will find out how social media can benefit the researcher in his or her academic career path. The course will provide real-life examples, tips and advice for building an online presence and managing different social media platforms. The doctoral students will experiment with different social media channels (LinkedIn, Twitter etc) and get more information of the social media channels targeted for academics like ResearchGate or Academia.edu. The participants will do an assignment – including blogging of their own research / research problems / doing research.

**Study materials and literature:** As instructed by the teacher

**Modes of study:** Active participation and assignment

**Grading:** Pass/fail

**Language:** English

**Teachers:** Tiedetoimittaja Riikka Kalmi

**Responsible unit:** The Graduate School of the University of Vaasa / Communications and External Relations

**Registration:** WebOodi, opens up in 7.1.



## TOFO4011 Research Ethics

**Credits:** 3 ECTS

**Timing:** Moodle 6.3.–6.4., 1 day **obligatory** lecture date is Friday 20.3. at 8-16

**Place:** A213, Tervahovi

**To whom:** All the doctoral students.

**Learning outcomes:** At the completion of this course a Doctoral candidate is able to to 1. Recognise and analyse key research ethical questions. 2. Formulate ethical research plans and responses to ethical challenges by applying key ethical theories and approaches. 3. Recognise and understand key ethical principles guiding research and how they apply to research work. 4. Understand the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. 5. Identify rights and responsibilities as a researcher. 6. Understand how ethical decisions and choices influence society and research community.

**Content:** Section A: Ethical theory and importance of research ethics. This section focuses on developing skills to analyse and recognise ethical challenges in research. This section also provides guidance and practice for recognising ethical principles and questions in research practice. The student will engage with different perspectives on ethical questions in research and reflecting on how these perspectives apply to their own research, ethical thinking, and more generally in their field of study.

Section B: Planning for ethical research. This section focuses on ethical questions that arise at the planning phase of research. These include ethical aspects on data acquisition and management; conflict of interest, need for ethical license or ethical review; data ownership; working with others; applying for research funding; working in a research groups; and preparing to publish. The students explore the research planning process from an ethical perspective and learn to recognise different questions that apply to their own research work and to research in general. During the section students apply the learning to their own research planning identifying and clarifying ethical elements in that plan.

Section C: Research practice and ethics. This section focuses on the ethical questions arising from doing research work. These include collecting data, collegial openness, dealing with ethical problems as they arise, supervision, misconduct of fabrication and falsification, and dealing with misconduct claims. The students reflect on and analyse the potential ethical challenges for their research work and seek ways to primarily prevent them or if necessary, how to resolve issues in an ethically appropriate manner aligning with Responsible Conduct of Research guidelines.

Section D: Sharing research results in an ethical manner. The last section focuses on sharing research results either via peer-reviewed publications or more openly with the society through media and expert roles. The topics covered in this section include plagiarism and misappropriation, authorship, peer review, choice of journals, dealing with the media and being an expert. The students expand their ethical analysis from their own research work towards the interaction of research and society. Through engagement with the ethical perspective and questions presented, they start to develop their ability to identify how ethical guidelines define their broader researcher role.

**Study Materials and literature:** Course literature consists of book chapters, scientific articles and web-based material in Moodle (opens 6.3.2020). **Instructions to Moodle sends to registered students student-email.**



**Modes of Study:** Active participation and assignments in Moodle. Obligatory participation to the lecture day.

**Language:** English

**Grading:** Pass/fail

**Teacher:** PhD Henriikka Mustajoki

**Responsible Unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up in 7.1.

## TOFO4002 Philosophy of Science and Critical Thinking

**Credits:** 5 ECTS points

**Time:** spring 2020, Tuesday and Wednesday, 4–6 pm, 14 April – 13 May

**Venue:** Lecture hall F249 in Fabriikki

**Objective:** On completing the course you know how to search for new research problems and how to formulate meaningful research questions. You can see strengths and weaknesses of your own research and can search suitable solutions for the problems.

**Contents:** This course discusses the foundations of scientific research and casts light on the issues of scientific concept and theory formation and of scientific explaining. Additionally, the theory and applications of argumentation and reasoning are studied. The aim of this is to develop your ability for reasoning and argumentation and to support you in planning and writing your thesis. Research ethical questions are also addressed in this course.

The course consists of lectures and group discussions based on three written assignments that develop your thesis.

**Recommended reading:** James, E. Alana & Tracesea H. Slater (2014), Writing Your Doctoral Dissertation or Thesis Faster: A Proven Map to Success (published also online)

**The way of completion:** The course is completed by participating in the lectures and group discussions and by accomplishing the written assignments. No exam is included in the course. You can be absent from two meetings.

**Language of instructions:** English

**Grading:** accepted/fail

**Teacher:** Professor Tommi Lehtonen

**Organisation in charge:** Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up in 7 January 2020

## TOFO 4020 Writing Better Academic English

**Credits:** 3 ECTS

**Timing:** Tuesdays beginning March 10 Through Tuesday April 7 from 8 AM to 12 PM. A total of 20 hours of class time

**Place:** A213, Tervahovi

**To Whom:** All doctoral students regardless of faculty



**Learning Outcomes:** The course will help doctoral students accomplish the task of writing an academic paper, in English, for potential submission to a peer-reviewed journal or accomplish a task to help earn the doctor degree. At the completion of the course students will understand detailed rhetorical structures and have the ability to develop a reasoned argument and organize detailed knowledge through their own reading and experiences.

**Content:** Read and discuss 1) strategies for writing papers, and 2) analyze exemplary published papers for structure, language and content. We will review guidelines and analyze techniques for good writing. Students will draft sections of the paper and work with a writing partner to revise. After revision of first drafts, students will share with the class for additional feedback. Students will complete a draft of a paper that demonstrates the writer read widely and critically about the paper topic while evaluating the credibility of previous arguments.

This 3 ECTS class meets once a week. The course will unfold the same way an academic paper does. We will work on each section of the paper in the same order that they are presented in a traditional paper: introduction and background, methods, results and discussion. We will devote time for revision and polishing a paper for possible submission to a peer reviewed journal or for earning a doctor degree. Students may also have one or more individual meeting(s) with the instructor for feedback.

The course Moodle page will contain the syllabus, all assignments, resources and Powerpoints. No book purchases are needed.

**Study Materials and literature:** As instructed by the teacher

**Modes of Study:** Active participation

**Language:** English

**Grading:** Pass/fail

**Teachers:** Karen Carter, Language Center, University of Vaasa

**Responsible Unit:** The Graduate School of the University of Vaasa

**Registration:** WebOodi, opens up in 7.1. Maximum number of students: 16

## TOFO4040 Researcher's skills/Tutkijan taidot

**Credits:** 1 ECTS

**Timing:** See timetable for the courses: [www.tritonia.fi/fi/lyhytkurssit](http://www.tritonia.fi/fi/lyhytkurssit).

**To whom:** To all doctoral students.

**Learning outcomes:** Doctoral students can choose the most suitable courses for to support their research work. After the lectures, doctoral students can use these skills to make their research work more effective.

**Content:** Based on the doctoral students' choices, e.g. Word/Excel as a researcher's tool, Open science and research, Tutkimuksen tiedonhankinta, Tutkimuksen aineistonhallinta 1 & 2, Tieteellisen julkaisemisen arviointi are suitable courses for doctoral students.

**Study materials and literature:** As instructed by the teachers.

**Modes of Study:** Active participation in at least four the lectures and a learning diary, at least a page per lecture. More information on completing the course and writing the lecture diary:





[https://navi.uwasa.fi/communities/service/html/communityview?communityUuid=4d13a28e-c950-4432-b514-433061c1bafc#fullpage-WidgetId=Wcde5a2cb3ea6\\_4505\\_9565\\_4cc1dd61a1d4&file=5adf36d3-fc4b-497d-be58-59d3063e4791](https://navi.uwasa.fi/communities/service/html/communityview?communityUuid=4d13a28e-c950-4432-b514-433061c1bafc#fullpage-WidgetId=Wcde5a2cb3ea6_4505_9565_4cc1dd61a1d4&file=5adf36d3-fc4b-497d-be58-59d3063e4791)

**Language:** English, Finnish and Swedish, depending on the participants.

**Grading:** Pass/fail

**Teacher:** Varies. Please send your lecture diary to **Virpi Juppo**, [virpi.juppo@uva.fi](mailto:virpi.juppo@uva.fi)

**Responsible Unit:** The Graduate School of the University of Vaasa and Tritonia EduLab

**Registration:** [www.tritonia.fi/en/shortcourses](http://www.tritonia.fi/en/shortcourses). Register also in WebOodi before submitting your learning diary to get the credits.

## TOFO4053 Writing research grant proposals

**Credits:** 1 ETCS

**Timing:** All year.

Written assignments are evaluated twice a year: deadlines for the assignments are 1.1.2020 and 1.6.2020. If you wish to have your credit point registered earlier, please contact the teacher.

**To whom:** Doctoral students in all fields. The course is particularly suitable for doctoral students at the initial phase of their doctoral studies.

**Learning Outcomes:** A research funding proposal is an overall process including several elements. Their identification helps you to plan your proposal and clarify the timetable for the writing task. You can always improve your writing skills, but by going through this course material and completing the given tasks, you can achieve the first milestone in grant writing skills. The course will provide you with practical tips and strategies for grant writing.

**Content:** The course consist of five parts: The grounds for grant writing, Funding sources, Impact and implementation, Abstract and Mobility and networking. Log in with you haka-account: <https://findocnet.fi/course/view.php?id=91>, course key **Grant Writing**.

**Study Materials and literature:** Materials are in Moodle.

**Modes of Study:** Completing all the assignments of the course in Moodle.

**Language:** The Moodle online course is in English. The written assignments may be written in English or in Finnish.

**Grading:** Pass/fail

**Teacher:** D.Sc. Virpi Juppo

**Responsible Unit:** The Graduate School of the University of Vaasa and Research Services

**Registration:** WebOodi, opens up in 26.8.2019

## TITE4030 INFORMATION SYSTEMS THEORIES

**Credits:** 5 ECTS

**Timing:** check the Lukkari

**Place:** check the Lukkari



**To Whom:** All doctoral students regardless of faculty

**Prerequisites:** Student need to be a doctoral student in a university in Vaasa region.

**Learning outcomes:** After this course student understands what are the components of theory, and what are the goals of theories (analysis and description, explanation, prediction, prescription) recognized in information systems (IS) research. The student understands what is the role of variety of IS theories in business research and the student is able to use theories and frameworks developed in IS research to promote business goals, for example. The student understands multidisciplinary nature of IS research and is able to connect theories from other scientific field to study IS related topics. The student is able to use theories and frameworks and based on them develop a theoretical research proposal and defend it. Based on the proposal and the given feedback the student is able to produce a theoretical essay that considers IS related issue. With respect of generic skills the student has developed his or her critical thinking skills, presentation skills, and writing skills. In addition, he or she has developed his or her lifelong learning skills.

### **Content:**

- Theoretical foundations of information systems and their development
- History of IS field
- Senior Scholars' Basket of Journals (by AIS)
- IS/IT artefact and the identity of IS field
- IS success theories
- Project success in IS and other fields
- Design science and IS/IT artefact
- Socio-technical theories
- Variance, process and systems approaches in research

### **Study Material and Literature:**

Hirschheim, R., Klein, H.K. (2012) "A Glorious and Not-So-Short History of the Information Systems Field" Volume 13, Issue 4, pp. 188-235.

Lee, A.S., Thomas, M. & Baskerville, R. L. (2015). "Going back to basics in design science: From the information technology artifact to the information systems artifact", Information Systems Journal, 25(1): 5-21.

Sidorova, Anna; Evangelopoulos, Nicholas; Valacich, Joseph S.; and Ramakrishnan, Thiagarajan. 2008. "Uncovering the Intellectual Core of the Information Systems Discipline," MIS Quarterly, (32: 3) pp.467-482.

Gregor, S., "The Nature of Theory in Information Systems", MIS Quarterly (30:3), September 2006, pp. 611-642.

DeLone, W.H., McLean, E.R. "The DeLone and McLean Model of Information Systems Success: A Ten-Year Update." Journal of Management Information Systems / Spring 2003, Vol. 19, No. 4, pp. 9-30.

Cecez-Kecmanovic, D., Kautz, K., Abrahall, R. (2014) Reframing Success and Failure of Information Systems: A Performative Perspective. MIS Quarterly Vol. 38 No. 2, pp. 561-588.

Drnevich, P.L., Croson D.D. (2013) Information Technology and Business-Level Strategy: Toward and Integrated Theoretical Perspective. MIS Quarterly Vol. 37 No. 2, pp. 483-509.

Keil, M., Mann, J., and Rai, A., "Why Software Projects Escalate: An Empirical Analysis and Test of Four Theoretical Models," MIS Quarterly (24:4) December 2000, pp. 631-664.



Keil, M., Cule, P. E., Lyytinen, K., & Schmidt, R. (1998). A Framework for Identifying Software Project Risks. *Communications of the ACM*, 41(11), 76 -83.

Van de Ven, A.H., Poole, M.S. (1995) Four process theories explaining development and change in organizations. *Academy of Management. The Academy of Management Review* vol. 20, no. 3 (Jul 1995), p. 510-540.

Hevner, A.R., March, S.T., Park, J., and Ram, Sudha, (2004) "Design Science in Information Systems Research," *MIS Quarterly* (28:1) March 2004, pp. 75-105.

Peffer, K., Tuunanen T., Rothenberger M.A., and Chatterjee S. (2007) "A Design Science Research Methodology for Information Systems Research", *Journal of Management Information Systems* (24:3), Winter 2007-8, pp. 45-77.

and other articles

**Teaching Methods:** lectures and seminar gatherings (20 h), writing research proposal and theoretical essay (80 h), other independent work such as reading articles (30 h)

**Modes of Study:** active participation in teaching activities such as reading scientific articles, writing proposal and essay, taking part in discussions

**Languages:** English

**Grading:** accepted / failed

**Responsible person:** Tero Vartiainen

**Teacher:** Tero Vartiainen

**Responsible Unit:** School of Technology and Innovations

**Additional Information:** First, doctoral students of information systems in University of Vaasa are accepted to the course. Then all doctoral students in universities in Vaasa region are accepted in the order of enrollment. In total, max. 25 doctoral students are accepted to the course. The course is arranged in January-March 2020.

**Registration:** Weboodi

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## TOFO4031 Graduate School Method Seminar/Tutkijakoulun metodiseminaari

**Laajuus:** 1 op/teema/Seminaareja voi olla vuodessa useita eri aiheista

**Oppimistavoite:** Metodiseminaarissa tohtorikoulutettava perehtyy uusiin tutkimusmetodeihin ja niihin liittyviin erityiskysymyksiin. Uusien tutkimusmenetelmien esittely ja niihin perehtyminen antaa tutkijalle virikkeitä ja uusia metodisia näkökulmia tieteellisen tutkimuksen tekemiseen. Opiskelija saa valmiudet tunnistaa erilaisiin tutkimusongelmiin sopivia tutkimusmenetelmiä sekä saa työvälineitä tutkimuksen suunnitteluun ja aineiston analysointiin. Opiskelija oppii myös asettamaan oman tutkimuksensa laajempiin metodologisiin ja teoreettisiin viitekehyksiin.

**Sisältö:** Kurssi koostuu alan asiantuntijoiden pitämistä seminaareista, jolla kullakin perehdytään johonkin tutkimusmetodiin. Opiskelijat voivat osallistua useille metodiseminaarin kursseille, joista kukin on 1 opintopistettä.

**Study Materials and literature:** As instructed by the teacher

**Modes of Study:** Active participation (written assignment or learning diary)



Vaasan yliopisto  
UNIVERSITY OF VAASA

**Language:** English/suomi

**Grading:** Pass/fail

**Teachers:** Varies

**Responsible Unit:** The Graduate School of the University of Vaasa

## TOFO4038 Graduate School Seminar/Tutkijakoulun seminaari

**Laajuus:** 1 op/teema/Seminaareja voi olla vuodessa useita

**Oppimistavoite:** Eri teemojen ympärille rakennetuissa seminaarissa tohtorikoulutettava perehtyy erilaisiin tutkimuksen tai tutkijanuran erityiskysymyksiin. Jatko-opiskelija saa uusia näkökulmia tutkimustyöhön, joita hän voi hyödyntää omassa tutkimuksessaan tai tutkijanurallaan.

**Sisältö:** Kurssi koostuu alan asiantuntijoiden pitämistä seminaareista, jolla kullakin perehdytään tiettyyn teemaan. Jatko-opiskelijat voivat osallistua useille Tutkijakoulun seminaareille, joista kullakin on 1 opintopistettä. Kurssi voidaan suorittaa osallistumalla seminaariin sekä kirjoittamalla vähintään 5 sivun oppimispäiväkirja siitä, miten teema näkyy tai sitä voi hyödyntää omassa tutkimuksessaan tai tutkijanuralla.

**Study Materials and literature:** As instructed by the lecturer

**Modes of Study:** Active participation (written assignment or learning diary)

**Language:** English/suomi

**Grading:** Pass/fail

**Teachers:** Varies

**Responsible Unit:** The Graduate School of the University of Vaasa