



# IDE Discipline Related Courses

This document gives an overview of the Discipline Related Courses offered by the faculty of IDE. Note that the courses you can take for the Discipline Related skills category of Doctoral Education are not limited to the courses in this overview.

## IDE DISCIPLINE RELATED COURSES

The discipline related skills category of Doctoral Education focuses on giving you a greater breadth and depth of knowledge in the field of your doctoral research. This document gives an overview of the courses offered by the faculty of IDE.

**Note that the courses you can take for the discipline related skills category of Doctoral Education are not limited to the courses in this overview. They may include summer schools and courses at other universities as well as courses and tutorials at reputable conferences.**

## COURSE OVERVIEW

These are the courses offered by the faculty of IDE, click on the name of the course for more information.

### Mandatory IDE Research Course

The IDE Research Course aims to help you find a position within the field of design research, to learn about the research culture(s) in the IDE field, to get familiar with the wider research community at IDE, and to strengthen your peer network. The course provides an overview of the variety of research approaches in design research. The course focuses on research skills related to the work of the PhD candidates themselves, and on the research spectrum present at IDE.

We recommend to take this course during the first year of your PhD project.

- **IDE Research Course**

### MSc course related PhD courses

The IDE Graduate School also offers IDE Discipline Related Courses. These courses are based on MSc courses and adjusted to serve the wishes and needs of PhD candidates. The credits for these courses count in the Discipline Related Skills category. Please contact the course coordinators in order to participate in these courses. Note that some courses can only accommodate PhD candidates if their background is suitable and if there is room in the course.

- **Reading seminar on Design and Socio-Cultural Theory**
- **Masterclass 'Writing a journal paper in the field of human experience'**
- **Conference and Reviewing Skills in Contextual Design (CRS)**
- **Product Experience (PE)**
- **Capita User - Product Interaction (CUPI)**
- **Evaluating Design from User - Product Interaction Theory (EDUPIT)**

### Other courses

Online providers such as EdX and Udacity offer MOOCs and other online courses. The courses below were developed by members of our own faculty.

- **Delft Design Approach - EdX**
- **Circular Economy - EdX**
- **Statistics (Online Self-study Course on Brightspace)** *(please note: 0 GS credits / not part of DE)*

# Reading seminar on Design and Socio-Cultural Theory

Course coordinator: **prof. dr. Bregje van Eekelen**

Reading group initiators: **Abhigyan Singh, Boudewijn Boon, Ehsan Baha, Peter Kun**

Course runs: **year-round, every 3-4 weeks**

Contact/registration: **dr. Abhigyan Sing, (A.Singh@tudelft.nl)**

Credits: **1 GS Credit for every two sessions attended (max. 5 GS credits)**

## DESCRIPTION OF CONTENT

**Aim:** The purpose of the Reading Seminar is to develop an intellectual dialogue within IDE by discussing and reflecting on design and socio-cultural theories.

**Approach:** The Reading Seminar meets every 3-4 weeks. Participants prepare in advance by reading and reflecting on pre-announced texts for the seminar. On occasion, we will invite foreign experts (authors of the selected text) to discuss their works with us. Each seminar lasts around one hour and forty-five minutes. Participants of the seminar can also propose a topic and texts for upcoming seminars. (Please note that the reading seminar will not consist of any lecture).

**Requirement:** The only requirement for participation in a Reading Seminar is to come prepared by having read and reflected upon the announced texts and to actively participate. An interest and desire to ask and engage difficult questions during the seminar will be much appreciated.

## DELIVERABLES

N/A

# Masterclass 'Writing a journal paper in the field of human experience'

Course coordinator: **dr. Rick Schifferstein**

Course runs: **Once every 2 years (2022, 2024, ...), for 5-6 months, depending on expressed interest. Usually starting September/October**

Contact: **Before start of the course (will be announced in PhD mailing list)**

Credits: **5 GS Credits**

## DESCRIPTION OF CONTENT

Writing a paper for an academic journal is an art in itself that asks for a particular style that can only be learned through extensive practice. Writing a paper can be a cumbersome and energy-draining activity: Every detail needs to be checked, every sentence needs to fit in, and the wording should be precise, the line of argumentation should be solid, statistical analyses should be appropriate and well executed, every conclusion should be substantiated by the study results. In addition, every journal seems to have their own rules, some of which are implicit. Therefore, many researchers struggle to complete their papers.

In this Masterclass, Rick Schifferstein provides a stable basic framework for writing academic papers, using the draft papers, reviewer reports, and rebuttals from his own publication practice as exemplary materials. Participants will receive a detailed insight in his personal approach to academic writing, supplemented by many practical suggestions and personal writing tips. The class helps both in speeding up the writing process and in improving the quality of the scientific contribution.

The meetings provide a 'training on the job' approach: participants evaluate and discuss each other's work and develop a writing strategy for the next part of the paper. In between meetings, participants revise their contribution and work on the subsequent section for their paper. When they keep up with the schedule and finish the entire course, they will have finished a paper that is ready for submission. The scheduled joint meetings really help to motivate participants to continue to work on their papers over the course of the meetings.

This Masterclass is intended for academic staff and experienced PhDs who are in their 2nd to 4th year who already have basic writing skills from courses on scientific writing and writing papers for conferences. The course is tailored towards participants who have finished an empirical study in the field of human experience, consumer behavior or design research, and would like to transform their outcomes into a high-quality journal paper for an academic journal (e.g., International Journal of Design, Materials & Design, Applied Ergonomics, Design Studies, Journal of Engineering Design, Journal of Design Research, CoDesign, Journal of Consumer Research).

## DELIVERABLES

For every meeting (except the first one), students write a section of their paper. During the meetings, students give each other peer formative feedback on the assignment. Students who cannot attend a meeting are requested to team up with another student, in order to exchange mutual personal feedback on the writing assignment for that meeting.

After the course, students hand in a full paper in which all peer comments have been addressed, and that is ready for submission in a journal. The course coordinator will determine a final grade on the basis of this paper. If sufficient, the student will get a certificate.

# Conference and Reviewing Skills in Contextual Design (CRS)

Linked course: **Context & Conceptualisation (ID4216)**

Course coordinator: **prof.dr. Pieter Jan Stappers (p.j.stappers@tudelft.nl)**

Course runs: **1st period (September) until end January**

Contact the coordinator: **before September 1st**

Credits: **4 GS-Credits**

## DESCRIPTION OF CONTENT

Writing and reviewing conference and journal papers are key academic skills. This course aims to teach skills related to scientific communication in the form of conferences, and the roles of an academic in peer review processes. This will also help in writing papers.

The course is organized on top of a writing exercise that runs in the MSc course ID4216 Context & Conceptualisation (C&C). The exercise is organized as a conference with circa 200 participating authors (students) choosing a topic from a series of calls, and developing a proposal and a paper. The role of the participating PhD students is to take the role of 'editor', hosting a content track on a topic related to design research (and their own interests).

Before you take part in this course, you should have gone through a writing and peer review process yourself (e.g., you first conference or journal paper).

## DELIVERABLES

The course runs in the Fall semester. Deliverables include writing a call for papers (one meeting in October), giving feedback to a proposal (one meeting in November), and three days review work in January.

# Product Experience (PE)

Linked course: **Advanced Embodiment Design (ID4175)**

Course coordinator: **dr. Haian Xue (h.xue@tudelft.nl)**

Course runs: **3rd/4th period (starts February)**

Contact the coordinator: **as soon as possible**

Credits: **3 GS-Credits**

## DESCRIPTION OF CONTENT

Designing for experience requires three basic design skills: 1) understanding the fundamental differences among different types of product experiences (i.e., design for aesthetics, meaning, and emotions); 2) identifying the level of human-product interactions for facilitating a specific experience (i.e., micro, macro, and meta levels); and 3) figuring out which product property is the best carrier for the desired human-product interaction (i.e., shape/sound/materials; product function; context of use and interaction).

By following this module, PhD candidates will gain both theoretical and practical skills into developing product experiences. By the end of the course, with the help of a 'product experience matrix', PhD students will be able to analyze the properties of a current product and conceptualize a future interaction scenario for eliciting a desired experience.

The content of the exercise depends on a PhD candidate's interest in a particular product experience.

## DELIVERABLES

- One essay
- Two Product Experience Matrices

The course runs in the first block of Spring semester (Q3). An essay on current and future product experiences is required together with two Product Experience Matrices (one for current and one for future product experiences). PhD candidates will participate in three product experience workshops (aesthetics, meaning, and emotion) through which they can also test their drawing or building skills. Feedback is given by experts at the workshops and/or through one-on-one scheduled meetings.

# Capita User - Product Interaction (CUPI)

Linked course: **Product Understanding, Use, and Experience (ID4210)**

Course coordinator: **prof.dr. Paul Hekkert (p.p.m.hekkert@tudelft.nl)**

Course runs: **1st period (September) until end January**

Contact the coordinator: **before September 1st**

Credits: **2 GS-Credits**

## DESCRIPTION OF CONTENT

The course aims at teaching students state-of-the-art knowledge on human-product interaction, in particular on how products are cognitively understood, used and experienced through all our senses. The course thus relies heavily on insights from the behavioural sciences as far as these help us to understand our relationship with and responses to designed artefacts, services, and product-service systems. The course is organized on top of the MSc course ID4210 Product Understanding, Use, and Experience (PUUE), in which students take part in a series of 12 2-hour lectures on design-related topics from the disciplines mentioned above, and followed by an assignment in which the student applies the theory to a design topic.

## DELIVERABLES

PhD candidates attend in 3 PUUE lectures and hand in the connected assignment.

# Evaluating Design from User - Product Interaction Theory (EDUPIT)

Linked course: **Product Understanding, Use, and Experience (ID4210)**

Course coordinator: **prof.dr. Paul Hekkert (p.p.m.hekkert@tudelft.nl)**

Course runs: **1st period (September) until end January**

Contact the coordinator: **before September 1st**

Credits: **3 GS-Credits**

## DESCRIPTION OF CONTENT

Understanding User-Product Interaction builds on several scientific disciplines, such as perception, cognition, emotion, human factors.

The course is organized on top of the MSc course ID4210 Product Understanding, Use, and Experience (PUUE), in which students take part in a series of 12 2-hour lectures on design-related topics from the disciplines mentioned above, and followed by an assignment in which the student applies the theory to a design topic.

## DELIVERABLES

PhD candidates in this course develop an assignment that goes with one of the lectures. Next to the assignment, the PhD candidate makes a 1-page reflection, which is evaluated by the lecturer of the topic.

# Statistics (Online Self-study Course on Brightspace)

Course coordinator: **dr.ir. Ruth Mugge (r.mugge@tudelft.nl)**

**Please contact Manon Borgstijn (M.M.Borgstijn@tudelft.nl) for access**

Credits: **0 GS Credits / not part of DE**

## DESCRIPTION OF CONTENT

Having a basic understanding of statistics is important for PhD candidates because this enables them to correctly interpret scientific articles that report on quantitative research in the field of design. Furthermore, it can help them with successfully setting up their own quantitative research.

Statistics is an independent, [online learning course on Brightspace](#) which offers PhD candidates the possibility to study the most basic statistical analyses themselves on their own pace. The course is developed for an IDE audience and provides many research examples with a design focus.

Specifically, within the Brightspace environment the theory of different statistical analyses (e.g., descriptives, correlation, regression, t-test, chi-square test, ANOVA) is discussed. After studying the theory, PhD candidates can watch Youtube videos about these analyses and complete practical exercises in the software program SPSS to practice with conducting the different statistical analyses and interpreting the findings.

## DELIVERABLES

As the course is intended to be a self-study course, PhD candidates can work on the course on their own pace during the whole year. However, assessment will only take place once a year at the end of quarter 1. This assessment will be a computer exam in which the PhD candidates are asked to analyse and interpret the findings of various research problems in SPSS.