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© CSF – Creative Strategic Foresight – Study Programme

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1.11.2011 – 30.9.2013

## CSF- course outline

# Research-oriented Design

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| COURSE TITLE | **Research-oriented Design** |
| COURSE CODE | For each educational institution to define |
| TYPE OF COURSE | Optional |
| LEVEL OF COURSE | Professional studies |
| LEVEL OF STUDY | Bachelor Programme |
| SEMESTER/TRIMESTER | For each educational institution to define |
| NUMBER OF CREDITS\*  (recommendation) | 5 |
| LANGUAGE OF THE COURSE | English, Spanish |
| STUDENT’S WORK LOAD | Total work load of the course 135 hours, of which:  Scheduled studies: 52  Autonomous and group studies: 83 |
| COURSE DEVELOPER | Aalto University |
| NAME/-S OF THE COURSE DEVELOPER | Minna Jakobsson, Janne Pekkala, Tanja Oraviita |
| A BRIEF DESCTRIPTION OF THE COURSE | The course introduces students to research-oriented design, design methods and tools. Design approach is regarded as one of the main future strategies of the EU in competition and innovation.  The course consists of lectures, exercises and research-based design cases executed with companies. |
| OBJECTIVES OF THE COURSE | |
| LEARNING OUTCOMES | **Design-oriented research** At the end of this course, students are expected to understand and be aware of the importance and role of design and design related research for competitiveness and business, have acquired insight of design process and methods, have (basic) skills to apply design processes and methods, and applied CSF research in real life business cases, have increased potential to learn and apply creative thinking in business. |
| COMPETENCIES | At the end of the course, students are expected to have insight of the role of design and show abilities to apply and use design methods and design related activities and in projects and research, and to design realted research, including applying project dimensions in real life. |
| MODE OF DELIVERY | Both face-to-face and virtual learning are used.  *Scheduled:*  Lectures (in class or virtual): 52 hours  *Autonomous:*  Exercise/ self-learning/ group work: 83 hours  Mode can be adapted nationally and personally. |
| PREREQUISITES | Basic studies |
| COURSE CONTENTS | 1. Introduction to design 2. User-centered design process and design research methods\* 3. Design research cases 4. Facilitating implementation of project outcomes 5. Applied research project (based on cases from the CSF databank) |
| RECOMMENDED READING | Hanington, B. & B. Martin (2012). *Universal Methods of Design*. Beverley, MA, Rockport Publishers;  OR/AND  Kumar, V. (2013). *101 Design Methods. A Structured Approach for Driving Innovation in Your Organization*. Hoboken, New Jersey: John Wiley and Sons |
| ADDITIONAL RESOURCES | Teacher can search videos, articles and other additional reading related to the topic and issues. |
| TEACHING METHODS  Combined with education, research and companies | Lectures, participation, discussions, case studies, exercises, final project |
| ASSESSMENT METHODS AND CRITERIA | Active participation: 20%  Workshops: 20%  Presentation and research plan: 20%  Research project evaluation: 40% |

**\*** Can be diminished or expanded according to the institution, curricula, need and cases.