



## COURSE SYLLABUS

# Digital Innovation, 7.5 credits

*Digital Innovation, 7,5 högskolepoäng*

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<b>Course Code:</b> JDIR28	<b>Education Cycle:</b> Second-cycle level
<b>Confirmed by:</b> Council for Undergraduate and Masters Education Nov 16, 2017	<b>Disciplinary domain:</b> Technology
<b>Valid From:</b> Aug 20, 2018	<b>Subject group:</b> IF1
<b>Version:</b> 1	<b>Specialised in:</b> A1N
<b>Reg number:</b> IHH2018/92-313	<b>Main field of study:</b> Informatics

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### Intended Learning Outcomes (ILO)

On completion of the course the students will be able to:

Knowledge and understanding

1. explain the fundamentals of innovation and digital innovation processes in the context of socio-technical systems.
2. explain the theoretical frameworks for open innovation, user innovation, and socio-technical innovation.
3. explain the theoretical frameworks for incremental and radical innovation in socio-technical systems.

Skills and abilities

4. use a human-centered approach to innovation in information systems design and implementation.
5. approach digital and physical constraints, ethical challenges opportunities and affordances systemically and as part of the same problem space

Judgement and approach

6. appropriately adopt incremental or radical innovation approaches to socio-technical systems design and implementation.
7. appropriately adopt a socio-technical approach to innovation for strategic organizational and societal goals

### Contents

The course provides an overview of the theoretical and practical approaches to digital innovation and digital innovation processes from a socio-technical perspective, expanding on the role of artifacts, systems, design, incremental and disruptive innovation, and the role of consumer-producers in internet-enabled co-creation.

### Type of instruction

Lectures, seminars, supervision, and workshops.

The teaching is conducted in English.

### Prerequisites

Bachelor's degree (i.e the equivalent of 180 ECTS credits at an accredited university) with at least 60 ECTS credits in informatics, business administration, economics, computer science, computer engineering, information engineering, or equivalent. Proof of English proficiency is required (or the equivalent).

### Examination and grades

The course is graded A, B, C, D, E, FX or F.

ILOs 1, 2 and 3 will be assessed through the written individual examination.

ILOs 4, 5, 6 and 7 will be assessed through the group work on the assigned project. Registration of examination:

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Name of the Test	Value	Grading
Written individual examination	4 credits	A/B/C/D/E/FX/F
Group assignment	3.5 credits	A/B/C/D/E/FX/F

### Course evaluation

It is the responsibility of the examiner to ensure that each course is evaluated. At the outset of the course, evaluators must be identified (elected) among the students. The course evaluation is carried out continuously as well as at the end of the course. On the completion of the course the course evaluators and course examiner discuss the course evaluation and possible improvements. A summary report is created and archived. The reports are followed up by program directors and discussed in program groups and with relevant others (depending on issue e.g. Associate Dean of Education, Associate Dean of faculty, Director of PhD Candidates, Dean and Director of Studies). The next time the course runs, students should be informed of any measures taken to improve the course based on the previous course evaluation.

### Other information

Academic integrity

JIBS students are expected to maintain a strong academic integrity. This implies to behave within the boundaries of academic rules and expectations relating to all types of teaching and examination.

Copying someone else's work is a particularly serious offence and can lead to disciplinary action. When you copy someone else's work, you are plagiarizing. You must not copy sections of work (such as paragraphs, diagrams, tables and words) from any other person, including another student or any other author. Cutting and pasting is a clear example of plagiarism. There is a workshop and online resources to assist you in not plagiarizing called the Interactive Anti-Plagiarism Guide.

Other forms of breaking academic integrity include (but are not limited to) adding your name to

a project you did not work on (or allowing someone to add their name), cheating on an examination, helping other students to cheat and submitting other students work as your own, and using non-allowed electronic equipment

### **Course literature**

#### Literature

Selected chapter from the following books:

Bijker, W. E. (1995). *Of Bicycles, Bakelites, and Bulbs – Toward a Theory of Socio-Technical Change*. The MIT Press.

Crainer, S. and Dearlove, D. (2014). *Innovation*. McGraw Hill.

Hill, D. (2012). *Dark Matter and Trojan Horses*. Strelka Press.

Guenther, M. (2012). *Intersection – How Enterprise Design Bridges the Gap between Business, Technology, and People*. Morgan Kaufmann.