

Syllabus for

Academic year 2019/2020 >

TEK300 - Advanced ICM theory

Avancerad immaterialrättsteori

Syllabus adopted 2019-02-21 by Head of Programme (or corresponding)

Owner: [MPBDP](#)

7,5 Credits

Grading: TH - Five, Four, Three, Fail

Education cycle: Second-cycle

Major subject: Industrial Engineering and Management

Department: 45 - TECHNOLOGY MANAGEMENT AND ECONOMICS

Teaching language: English

Open for exchange students: No

Block schedule: [D](#)

Credit distribution

| Module | Sp1 | Sp2 | Sp3 | Sp4 | Summer course ⁱ | No Sp | Examination dates ⁱ |
|----------------------------------|------|------|-----|-----|----------------------------|-------|--------------------------------|
| 0108 Laboratory 7,5c Grading: TH | 4,0c | 3,5c | | | | | |

In programs

[MPBDP ENTREPRENEURSHIP AND BUSINESS DESIGN, MSC PROGR, Year 2 \(elective\)](#)

Examiner:

[Ulf Petrusson](#)



[Go to Course Homepage](#)

Eligibility:

In order to be eligible for a second cycle course the applicant needs to fulfil the general and specific entry requirements of the programme that owns the course. (If the second cycle course is owned by a first cycle programme, second cycle entry requirements apply.)

Exemption from the eligibility requirement: Applicants enrolled in a programme at Chalmers where the course is included in the study programme are exempted from fulfilling these requirements.

Course specific prerequisites

Only students who are admitted to the Entrepreneurship and Business Design program, the ICM-track, are qualified to take the course, due to the strong integration with the lab-based pedagogy of the program. The student must also have passed the courses CIP017, CIP058, CIP011, CIP061 and TEK211 from the first year of the Entrepreneurship and Business Design program in order to be qualified to take the course.

Aim

The purpose of the course is to provide students with an advanced theoretical foundation regarding the transformation from an industrial to a knowledge-based economy, in particular, the role of knowledge assets and processes in the development of innovations, the organizational structure and strategies of firms, the construction of markets, and the determination of economic policy to support the growth of wealth and welfare. The theoretical frameworks will be discussed from an inter-disciplinary perspective including the areas of technology, economics, management, law, sociology, and philosophy.

Learning outcomes (after completion of the course the student should be able to)

- Demonstrate theoretical understanding of the epistemological and ontological differences between objective and subjective methods and objects in the social construction of reality.
- Demonstrate theoretical understanding of the social construction of (1) assets, property, and capital and (2) innovations, markets, and firms and the relevance for innovation and entrepreneurship in the knowledge economy
- Demonstrate theoretical understanding of business/legal research methods Apply advanced theoretical frameworks in relation to knowledge based business and economic development.
- Apply theory and methodology to the design and implementation of inter-disciplinary social science research
- Explain the major characteristics that differentiate an industrial from a post-industrial economic paradigm on the level of the firm and society

Content

The course is built around theoretical seminars and research assignments, where the students will obtain a comprehensive understanding of theoretical frameworks and methodologies related to the subject of knowledge-based business management and economic development in general as well as their own field of specialization.

Organisation

The course will consist of a seminar series, a group research project, and an individual assignment.

Literature

See separate list.

Examination including compulsory elements

The students are graded on their performances in applying their theoretical knowledge, in the form of written hand-ins and oral presentations. The course will be examined by means of individual as well as group assignments. Mandatory attendance is required at the seminars.