COURSE SYLLABUS

Ledning och organisering av teknik- och kunskapsintensiva projekt och företag
Management and Organization of Technology and Knowledge Intensive Projects and Firms
7.5 credits (7,5 högskolepoäng)

Course code: IY2617
Main field of study: Industrial Economics and Management
Disciplinary domain: Technology
Education level: Second cycle
Specialization: A1N - Second cycle, has only first cycle course/s as entry requirements

Language of instruction: English
Applies from: 2021-06-17
Approved: 2021-06-17

1. Decision
This course is established by Dean 2019-10-17. The course syllabus is approved by Head of Department of Industrial Economics 2021-06-17 and applies from 2021-06-17.

2. Entry requirements
Bachelor's Degree in Engineering of 180 credits in science excluding industrial economics and management. Mathematics/Applied Mathematics/Mathematical statistics 30 credits. English 6.

3. Objective and content

3.1 Objective
The purpose of the course is to develop broad and deep knowledge and understanding of theories of leadership and teams in knowledge-intensive environments. The aim of the course is to enable students to use the knowledge gained to evaluate their own leadership. Students will develop the understanding of and ability to balance leadership and entrepreneurial roles in relation to an operational role where technology is a central component of the organisation. Upon completing the course, students will be well equipped to analyse and understand leadership in different situations.

3.2 Content
Within the scope of the course lies three general and overlapping areas within organisation theory and leadership:
•A selection of theories describing individuals and groups' organisational behaviour
•A selection of leadership theories covering behaviours and styles
•Internal and external organisational frameworks for organised work and leadership in knowledge intensive environments

4. Learning outcomes
The following learning outcomes are examined in the course:

4.1 Knowledge and understanding
On completion of the course, the student will be able to:
•describe a selection of theories in the field of organisation and leadership
•explain how theories in the field of organisation and leadership theory influence specific situations
•apply theories, models and concepts on organisations in knowledge intensive environments
•identify possible organisational and leadership-related reasons to the outcome of individual, team and company performance
•have an understanding of ethics from the perspective of organisations and cultures

4.2 Competence and skills
On completion of the course, the student will be able to:
•analyse their own and others' leadership
•practice leadership by assuming responsibility for their own and the groups' development and learning

•account for engineering-based management and leadership aspects
•demonstrate academic writing

4.3 Judgement and approach

On completion of the course, the student will be able to:

•demonstrate understanding of the characteristics of management and leadership in knowledge intensive environments

5. Learning activities

Teaching includes lectures, practical exercises, and guest lectures and seminar series on specific themes where a selection of scientific articles will be discussed.

6. Assessment and grading

Modes of examinations of the course

Code	Module	Credits	Grade
1910	Seminar	2.5 credits	GU
1920	Take-home examination	5 credits	AF

The course will be graded A Excellent, B Very good, C Good, D Satisfactory, E Sufficient, FX Fail, supplementation required, F Fail.

The information before a course occasion states the assessment criteria and make explicit in which modes of examination that the learning outcomes are assessed.

An examiner can, after consulting the Disability Advisor at BTH, decide on a customized examination form for a student with a long-term disability to be provided with an examination equivalent to one given to a student who is not disabled.

7. Course evaluation

The course evaluation should be carried out in line with BTH:s course evaluation template and process.

8. Restrictions regarding degree

The course can form part of a degree but not together with another course the content of which completely or partly corresponds with the contents of this course.

9. Course literature and other materials of instruction

Thamhain, Hans J (senaste upplagan) Management of Technology. Managing effectively in technology-intensive organizations. John Wiley & Sons. Available to borrow as an e-book at the library.
Free Press Scientific articles and other teaching material will be assigned (maximum 300 pages)