



Course Syllabus

Course title in Swedish: Teori för försvarssystem

English title: Theory for Defence Systems

Course code: 2MF005
Valid from: Autumn term 2019
Date of establishment: This course syllabus was established by the Research and Education Board's Course Syllabus Committee at the Swedish Defence University on 2019-01-28
Department: Department of Military Studies
Subject: Systems Science for Defence and Security
Level: Second cycle
Scope: 15 higher education credits

Prior knowledge requirements and other preconditions for admission to the course

Admitted to the Master's Programme in Defence and Security Systems Development.

Main field of study

Systems Science for Defence and Security

Gradual specialisation

A1N second cycle, with prior knowledge requirements consisting solely of first-cycle course(s).

Level of specialisation

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Course content and structure

The purpose of the course is to contribute theoretical knowledge of systems theory and sociotechnical defence and security systems. The course is divided into two modules.

Module 1: Systems Theory and Sociotechnical Systems (7.5 HE credits)

The introductory module is intended to develop the student's understanding of systems, systems theory and sociotechnical systems. The emphasis is on overarching theories and frameworks for understanding systems, as well as theoretical understanding of humans and organisation as elements of a sociotechnical system.

Module 2: Sociotechnical Defence Systems (7.5 HE credits)

This module introduces current research into sociotechnical defence systems, with a specific focus on the present day (twenty-first century). External influences on

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systems from parameters such as environment, uncertainty, complexity and the adversary will be especially highlighted. Aspects touching on ethics, morality, gender and sustainability will also be highlighted as they pertain to the use and design of sociotechnical defence systems.

Teaching will be conducted in the form of lectures, independent study and seminars.

Intended learning outcomes

On completing the course, the student shall be able to:

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Module 1

- compare and contrast various systems theories and sociotechnical perspectives and how these have developed over time;
- independently apply the theoretical perspectives introduced during the course with a critical attitude; and
- present analyses in written and oral form based on these theoretical perspectives, with well-developed arguments and critical reasoning and with a clear bearing on the course literature.

Module 2

- describe and reflect on how technology, organisation and individuals create and interact in a sociotechnical defence system and how this affects its capabilities;
- describe, relate and summarise elements of current research in the field of sociotechnical defence systems; and
- problematise and evaluate ethical and social consequences related to the development and use of sociotechnical defence and security systems.

Assessing knowledge and examination

Examination will be through two individual written assignments, one for each module.

The examiner may decide that supplementary work is required in order for a pass grade to be achieved. Examination papers submitted late will not be graded, unless there are special reasons, which have been approved by the examiner. Supplementary assignments are to be submitted no later than five working days after the notification of results and the supplementary assignment for the examination in question, unless there are special reasons, which have been approved by the examiner.

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Number of examination opportunities

There is no limit on the total number of examination opportunities. The total number is restricted to one ordinary examination and two retakes in any two-term period, unless special circumstances exist that are acceptable to the examiner.

Grades

Grades are set according to a three-grade scale: Pass with merit (VG), Pass (G) and Fail (U).

A passing grade (G) requires a pass (G) for both of the individual written assignments.

A pass with merit (VG) requires a pass with merit (VG) for both of the individual written assignments.

Grading criteria are stated in the course description.

Course literature and additional teaching materials

See Appendix 1

Interim regulation

When a course is no longer provided or when the content of a course has been significantly altered, the student/participant retains the right to be examined in accordance with this course syllabus once per term during a three-term period.

Other

The course is held as a compulsory element of the Master's Programme in Defence and Security Systems Development.

The course may be held within the framework of contract education.

On the completion of the course, an evaluation will be conducted under the auspices of the course director, which will form the basis for any changes to the course.

The course will be held in English. If no international students are admitted, parts of the course may be held in Swedish.