MJ2695 Sustainable Development in Developing Countries 6.0 credits

Hållbar utveckling i utvecklingsländer

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

The course syllabus is valid from Spring 2022 according to the school principal's decision: A-2022-1071. Decision date: 2022-04-28

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Mechanical Engineering, Technology and Management

Specific prerequisites

At least 120 academic credits in a program of engineering or natural science including documented proficiency in english B or equivalent.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The overall objective in this course is to give a deeper insight of the influence of technology on sustainable development. After concluding this course the student should be able to:

- Give a historical background to the concept of “sustainable development”.
- Describe the ecological, economic and social situation in developing countries.
- Describe and analyse the Millennium Development Goals and the Sustainable Development Goals.
- Search for scientific literature in the subject areas of the course from the Internet and in libraries and use it as reference materials for a written report / case study.
- In a written report / case study analyse and discuss how new technology affects different aspects of “sustainable development” in low and middle income countries related to the developing world.
- Use citations and bibliography in a written report / case study.
- Give an oral presentation of a written case study

Course contents

In this course we focus on sustainable development in the developing world, with special emphasis on Sub-Saharan Africa - present condition and future prospect. Technology development and its connection to Official Development Assistance (ODA), poverty reduction, natural resources, economic growth and business opportunities are discussed.

Examination

- PRO1 - Project, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LIT1 - Literature Data, 3.0 credits, grading scale: P, F

Based on recommendation from KTH’s coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

This course plan will not be valid after 2017-01-01. No teaching is offered after this date. Students who are registered on the course according to this course plan have the right to be examined after that date, but no longer than until 2020-01-01.

Examination after the course has been cancelled will be offered at the set examination dates for the course AL2195.

Transitional regulations

The course has been replaced with AL2195 and any students can be registered on this instead.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.