



Resource Recovery Resursåtervinning

5 credits

5 högskolepoäng

Ladok Code: FRRRR15

Version: 1.0

Established by:

Valid from: Spring 2013

Education Cycle: Third cycle

Research Subject: Resource Recovery

Prerequisites: The student has to be admitted to a PhD-programme. The Examiner can make exceptions from this rule.

Grading Scale: Fail (U) or Pass (G)

Content

- Resource recovery for a sustainable development
- Sustainable materials
- Feeding the waste streams: sources of materials in the environment
- Managing material waste: technologies for separation and recycling
- Drivers and barriers for material recycling: social, legal and economic factors
- Design for the environment: the life cycle approach
- Environmental impacts of waste and recycling

Learning Outcomes

Having passed the course, the student will be able to

- explain the reasons behind and the motives for resource recovery,
- describe the steps in recycling process which contains, *collection, sorting, dismantling, identification,*
- describe and discuss available recycling technologies e.g. crushing, melting, converting,
- evaluate various available recycling technologies from economical, environmental and social points of view,
- explain and discuss how waste management can be made sustainable.

Forms of Teaching

Lectures, exercises, study visits and project work.

The language of instruction is primarily English. However, instruction in Swedish can occur.

Forms of Examination

Examination of the course occurs through: written examination, project and study visit.

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

Literature and Other Teaching Methods

To be announced at course start.

Student Influence and Evaluation

The head of department and teacher responsible for the course are responsible for ensuring that students are invited systematically and regularly to put forward their views on the course. The results of the evaluations will be reported back to the students and will form the basis for the future structure of the course.

Miscellaneous