



## Syllabus

### TN0031.1 Solid Biofuels, 7.5 credits

#### Fasta biobränslen

The course is given as course independent of study programme

Syllabus discontinued 7 December 2010

Version 1 in Slukurs. Corresponds to version 1 in Ladok

#### Syllabus approved

26 May 1997

The version applies to students admitted from autumn 1999 to autumn 2011

The version is not a module version

#### Subjects

Technology

#### Education cycle

First cycle

#### Modules

Title	Code	Credits
Single module	0101	7.5

#### Advanced study in the main field

#### Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

## **Language**

Swedish

## **Prior knowledge**

The equivalent of: 5 Swedish University Credits (SUC) of basic (A-level) courses in Forest operations; and 5 SUC of intermediate (B-level) courses in Silviculture; or 2 years on the Forest engineering programme.

## **Objectives**

The course will provide the students basic knowledge of the solid biofuels of significance for present and future energy systems. Having completed the course, the students will have:

- good knowledge of production, production techniques, handling and upgrading of biofuels
- knowledge of environmental effects during production and handling of different biofuels
- knowledge to perform economic analyses concerning production of different biofuels.

## **Content**

The course considers the following solid biofuels: wood fuels, peat fuels, agro fuels and waste fuels. For each fuel, production, production techniques, handling and properties of the mentioned fuels are discussed. In addition, economy and environmental aspects concerning production and handling of the fuels are considered. Finally, techniques for production and handling of upgraded solid biofuels, together with their properties, are discussed.

## **Implementation**

Lectures ca 40 h

Exercises ca 20 h (compulsory)

Study tours ca 20 h (compulsory)

Excursions ca 20 h (compulsory)

## **Examination**

### **Requirements for examination**

Written examination and reporting of exercises.

Approved written examination and participation of compulsory parts of the course.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.
- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

### **Additional information**

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

### **Responsible department**

Department of Forest Biomaterials and Technology

### **Supplementary Information**

*Finalized by:* Programnämnden för skogsvetarprogrammet