

SLUkurs

Syllabus

PFS0041 Clonal Propagation of Woody Plants, 3.0 credits

Syllabus approved

2009-03-30

Subjects

Biology

Education cycle

Third cycle

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

English

Prior knowledge

The course is for students with a background in biology.

Objective, including learning outcomes

This course will give a theoretical basis for clonal propagation of trees as well as hands-on experience of basic techniques with the focus on clonal propagation of trees from the perspectives of clonal forestry and transgenic trees. It is given as a

Ph.D. course to those with an interest in Plant Physiology/Molecular Biology/Genetics/Forestry.

Content

The course will provide an update on plant organogenesis and in vitro propagation followed by the introduction to latest technologies used in clonal propagation of trees, including somatic embryogenesis, and transformation of conifers. Demonstrations and hands-on experiences of techniques and tools in somatic embryogenesis and biolistic transformation of embryos are part of the course.

Requirements for examination

To complete the course requirements, participation in lectures and practical exercises, and completion and presentation of an individual project, are expected.

Additional information

The course is a part of the Master Course “Biology and Biotechnology of Forest Production Systems” within the Master Program Plant and Forest Biotechnology.

Responsible department

Department of Forest Genetics and Plant Physiology