



Online course

Plant Breeding, tailor-made learning for professionals

Are you looking for more theoretical background on plant breeding? This online course offers six modules, including basic, more complex breeding and selection methods, new technological developments, and insight in underlying biological concepts. This programme offers you a flexible learning process with the possibility to compose your own learning path by following one or more modules. It is ideal for professionals and enables you to study the learning materials at your own pace and place.

This course is developed by experts from Wageningen University & Research (WUR). The modules have been successfully followed by a worldwide broad audience and are well-rated.

Target group

Professionals in plant breeding and related companies and research institutes. It is assumed that the participant has knowledge at BSc level of plant sciences, genetics or biology by education or work.

Results

Successful completion of all modules of the online course Plant Breeding provides you with a concise overview of basic principles of plant selection and principles associated with genetic markers, linkage mapping, QTL-analysis, resistance against pathogens, F1 hybrids, mutation breeding and breeding for quality aspects.

Location	Individual Self-paced Online
Duration	Variable per module
Supervisory lecturer	Dr. Jan-Kees Goud & Dr. Arnaud Bovy Wageningen Plant Research

Our approach

This course is an online self-study programme, 24/7 available to study at your own pace. The learning material consists of built-in text and figures, supported by self-tests, assignments and knowledge clips (only module 6). The possibility to compose any combination of modules (all or a selection of single modules) enables you to repair specific knowledge deficits. Participants can consult the supervisory lecturers by email.

Optional: exam and certificate with study credits

Each module can be completed by doing an (online) exam. Upon successfully completing, a certificate is issued, this is designed for a business environment and gives no immediate rights to apply towards a formal degree programme on a university.



Programme

Plant breeding plays an important role in the development of plant varieties for food, feed and industrial uses. New varieties have to meet current demands regarding yield, disease resistance, quality characteristics, salt or drought tolerance and suitability for sustainable plant production systems. Plant breeding involves a variety of aspects, ranging from the molecular level to the population level and requires knowledge on the physiology, ecology and genetics of cultivated plants. The use of various molecular techniques contributes enormously to the rapid identification of genes for natural resistance and is essential for accelerating the selection process by marker-assisted breeding.

The following modules are available:

- **Module 1 Principles of Plant Breeding** | 1 ECTS
- **Module 2 Marker-assisted selection** | 2 ECTS
- **Module 3 Resistance to biotic factors** | 0.2 ECTS
- **Module 4 F1 hybrids** | 1 ECTS
- **Module 5 Mutation Breeding** | 1 ECTS
- **Module 6 Breeding for Quality** | 1 ECTS

More information on the covered topics per module can be downloaded from our [website](#). The study credits (ECTS) differ per module; 1 ECTS equals 28 hours of study.

Practical information



The course fee is € 495.- for M1, € 695.- for M2, € 95.- for M3, € 495.- for M4, € 495.- for M5 and € 495.- for M6.

Price exam (optional): € 195.- per examination date.

You receive a personal account valid for a 1 year period access to the course on the online learning platform of WUR.



Individual self-paced course. You can start at any time.



Per examination date one or multiple (online) exams can be taken. This is optional, for more information on our exam options you can check the information on [our website](#).

Registration

Register via wur.eu/academy.

Register

Wageningen Academy

We develop and organise courses for professionals, based on Wageningen University & Research expertise.

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tomorrow's business