

# PLANT BREEDING AND GENETICS

**LEVEL:** MASTER 1

**PERIOD:** SEMESTER 1

**LANGUAGE:** EN

**ECTS:** 3

**TEACHER/COORDINATOR:** ALI SIAH



## 1-Main objectives

- › Acquire a background in the area of plant breeding and plant genetic selection (actors, organization, challenges, progresses, etc.)
- › Understand the strategies and techniques of quantitative genetics applied for plant improvement
- › Tools of biotechnology applied for plant breeding such as marker assisted selection and genomic selection

## 2-Skills developed

- › Analyze constraints, technical and economic challenges of genetic improvement of various plant species.

## 3-General content

Lessons/conferences, company visits

- › Organization of plant breeding sector
- › Methods of plant breeding
- › Quantitative genetics applied for plant breeding
- › Marker assisted selection and genomic selection
- › Breeding specificities of different plant species
- › Seed production and regulation

## 4- Evaluation

- › Individual exam – Synthesis report and oral defense on a subject not developed during the courses.