

# RUMINANT NUTRITION AND ROUGHAGE SYSTEMS

**LEVEL:** MASTER 1

**PERIOD:** SEMESTER 1

**LANGUAGE:** EN

**ECTS:** 3

**TEACHER/COORDINATOR:** JOOP LENSINK / VALÉRIE JACQUERIE



2019-2020

## 1-Main objectives

- › Train future animal nutrition managers (formulation, R & D, sales) and breeding advisors
- › Enhance knowledge on ruminant feed and roughage systems

## 2-Skills developed

- › Identify problems related to feed-imbalanced diets (health, product quality, sustainability...)
- › Develop a systematic and systemic approach regarding ruminant farms

## 3-General content

- › Roughage (fodder) systems and grazing management
- › Pasture management and plant variety use
- › Ruminant (feed) systems and sustainability approach
- › Metabolic diseases related to rumination
- › International feed and animal diet evaluation systems

## 4- Evaluation

- › Written individual exam

## 5- Program

- › Introduction: Ruminant production systems
- › Roughage and conservation methods
- › Pasture and grass management / Productivity of grass / Different species in grasslands
- › Roughage systems
- › Ruminant-specific metabolic diseases
- › Rationing and feed systems (in France and abroad): technical and economic analysis