

APPLIED AGRICULTURAL SCIENCES TO SPECIALIZED CROPS



LEVEL: MASTER 1

PERIOD: SEMESTER 2

LANGUAGE: EN

ECTS: 3

TEACHER/COORDINATOR: JÉRÔME MUCHEMBLED



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1-Main objectives

- › Identify the specialized crops, the different production areas, the markets and the possible valorization of these plant productions (fruits and vegetables).
- › Know the biological and botanical characteristics of the French specialized crops.
- › Understand the importance of phenological stages in relation to the technical itinerary.
- › Understand and analyze a technical itinerary : varietal choice, soil and sowing; fertilization and piloting tools ; chemical and mechanical management of the main weeds; chemical and biological management of major diseases; chemical and biological management of major insects; decision support tools to manage bio-aggressors; harvest, quality and regulation.

2-Skills developed

- › Understanding the quantitative and qualitative issues of specialized crops for food and health
- › Analysis of technical itineraries in relation to production methods and the regional pedo-climatic context
- › Identification of the main biotic and abiotic stresses of specialized crops

3-General content

News, evolutions and innovations of technical itineraries applied to specialized crops :

- › Arboriculture (Apple orchards)
- › Grape vine
- › Vegetables production

4- Evaluation

- › Individual assessment (50 or 100%) and/or oral presentations by groups (30 minutes) (50 or 100%)