

UP : S8-OPT-C UE : S8-MAEST	ISARA4 / S8	Numbers of student hours						
Group study project (MAESTRO) *	Valentine LAMORT	Lectures 9.00 h	Tutorials -	Practicals -	Field trips -	Supervised work 32.00 h	Project work 165.00 h	Evaluation 0.50 h
ECTS : 9								

OBJECTIVES:

MAESTRO is a study mission to be conducted on behalf of a company. The students will have to acquire the scientific, technical and administrative bases necessary to conduct a project on a specific theme.

Four stages of learning are useful for developing new skills:

1. Concrete experience: discovering the context, gathering knowledge, ... ->Observation
2. Observation and reflection: assimilation of knowledge, construction of hypotheses, ... -> Reflection
3. Conceptualization: construction of models, scenarios and experimental plans, ... -> Conception
4. Active experimentation: development of action plan (experimentation, investigation, ...) -> Action

PROGRAMME :

Development of a short study. Several fields of application:

- Socio-economic diagnosis
- Animal or plant experimentation
- Technical improvement of production systems
- Ecological engineering
- The quality of raw materials in agri-food.
- The impacts of production factors on the quality of agri-food products.

The eight stages of project management will serve as a framework for student work:

- 1- Define the project
- 2- Analyze the project
- 3- Find solutions
- 4- Choose a solution
- 5- Present the chosen solution to future beneficiaries
- 6- Building the solution
- 7- Implement
- 8- Monitor and take stock

PREREQUISITES:

- Oral and written communication
- Project management
- Survey methodologies
- Statistics and experimental technics.

TEACHING METHODS:

Work in groups of 3 to 4 students, proposed by a partner (company, community, association, ...),
Work followed by a teacher (tutor).

Course and TD at the beginning of the module: project management, bibliography, qualitative and quantitative data analysis, introduction to interdisciplinary approaches

Continuous group work, under the responsibility of the group itself (autonomy, accountability), with regular maintenance with the sponsor and the teacher-tutor

Support in chemistry, statistics and microbiology and agribusiness are organized with several teachers.

Specific follow-up of international students can be set up with the International Relations team

At the end of the period, an oral presentation and a written report make it possible the évaluation. Possibility of an oral defense in the company if specific request of the partner.

EVALUATION METHODS:

- Evaluation by a teacher and a tutor (company partner) during the whole study (50% final grade)
- Defense with the group (25% final grade)
- Written summary (25% final grade)

Objectives of the exam:

- To evaluate the group's ability to complete the project (organization, discipline, goal setting)
- To evaluate the ability to present results in front of a jury (teachers, company partner)
- To show respect for communication instructions, bibliography and project management.

