

# M.SC. IN AGRICULTURAL TECHNIQUES

## Specialization in Crop Productions

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28 years old, single, French

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### **Education**

1990-94 : Student at **ENITA** (National College in Agricultural Studies)

General Formation in Animal and Plants Sciences, Maths/Physics, Food Production, Social Sciences, management/development of the territory

1987-90 : "Preparatory" class for competitive exam to an Agricultural College

1987 : BAC D. Equivalent of C.S.C. (specialised in sciences)

### **Training and Work experiences**

June 1995 (1 year) : Assistant researcher at Michigan State University (USA)

Dr.Ritchie's group : Study of the correlation between topology and yield, modelisation of the water uptake from the groundwater in a maize field, study of soil hydraulic proprieties, validation of Crop Model (CERES) for maize

Dr.Pierce's group : Collect of soil and plant samples, yield mapping, to improve Site Specific Management strategies

April 1994 (8 months) : Research work at MSU with Dr.Ritchie as MSc supervisor: "Management of the potato nitrogen fertilisation by window plots" (thesis)

July 1993 : Supervisor of maize detasseling for LIMAGRAIN seed company in the centre of France  
=> Responsible of 200ha in Seed Production in 15 different farms.

April 1993 : Practical training in a smoked salmon company  
=> Involve all aspect from the reception of the fish, transformation, packaging, direct commercialisation, and maintenance of the production equipment.

Summer 1992 : Work in an Australian experimental farm  
=> Tending of sheep, building construction, tractor driver.

1990-1991 : Two technical economic training's in farms (3 months)  
=> Assessment of economical situation, responsible of milking and feeding of 50 dairy cows.

### **Skills**

Fluent English (TOEFEL test score : 567 in 1996), German  
Work with Winword/Wordperfect, Excel/Quattropro, Multiplan,  
Dbase3+, Statitcf, Internet (Ftp, Telnet)

### **Others**

July 96 : One year travelling in Africa : Capetown up to Nairobi . Discovery  
of the 1/3 World : Agriculture, Tourism, NGOs

=>manager of a youth hostel, safari guide, driver/cook

Student jobs : Salesman in a department store, life-guard and technical supervisor in a  
swimming-pool, , guide for foreigners and VIP for the International Agricultural  
Show in Paris, responsible of a student bar. Co-founder of a student newspaper  
Member of SESTAGRI (ENITA student-business association : elaboration and  
realisation of a poll concerning the quality of milk in Lozere - a state of France. )

Volley-ball, Speleology, Painting

Certificate of bathing-supervisor and Certificate of 1st aid-worker

# ENITA of Clermont-Ferrand

## Teaching program

### April 1990

#### Common core syllabus : 2 first years

Fields :	Duration of formation	Coefficient
<p><b>* Management and development of the territory</b>            Set-up of the territory : problematic, level of action            Objectives and methods            Set-up and rural development : situation and dynamic            politic, development in difficult zones</p>	82 hours	10
<p><b>* Food-processing economy</b>            General economy            Food-processing economy            Agricultural politic</p>	85 h	10
<p><b>* Administration</b>            General financial management            Analytic book-keeping            Provisional management</p>	85 h	10
<p><b>* Mathematics</b>            Statistic inference            Classic inference            Public opinion poll tools            Relation between variables            Data analysis</p>	80 h	10
<p><b>* Computer science</b>            General computation and analysis            Standard software's            Introduction to the expert systems</p>	80 h	11
<p><b>* Animal sciences</b>            Alimentation            Growth and development            Reproduction and lactation            Genetic-Selection            Molecular biology-Immunology            Sanitation-Pathology            Study of a production</p>	170 h	21
<p><b>* Plant sciences</b>            The plant and his milieu            Technical itinerary for crop production            Yield elaboration            Studies of the main productions</p>	195 h	21

<b>* Physics</b>	60 h	5
Applied thermodynamic		
Hydraulic		
Automatism		
<b>* Machinery</b>	55 h	5
<b>* Social sciences</b>	75 h	10
Documentation		
Relation / Animation		
Expression and Communication		
Professional organizations and agricultural development		
Functional study of the farm		
<b>* Food industry technology</b>	130 h	13
Microbiology		
Biochemistry		
General technology		
Animal production processing		
<b>* Study of a specialized product</b>	29 h	4
<b>* English</b>	112 h	11
<b>* Sport</b>	112 h	5

## Training's :

<b>* on a farm</b>	11 weeks	11
<b>* in an agricultural organization</b>	1 week	3
<b>* in a food processing firm</b>	4 weeks	7

**Optional unites of value :** 11 weeks 33

**Computerized cartography**  
**Windows environment and Excel**  
**Development in hilly regions**  
**Discover of unusual animal production**  
**Crop protection**  
**Crop improvement**  
**Cartography and aerial pictures**  
**Biological agriculture**  
**General ecology**  
**Fertilization and environment**

## Third year of formation : Option Crop Production

20 weeks at the ENITA, 24 weeks in a research institute (research work)

Fodder crops and their use	6 weeks	5
Soil study - Agronomy	3 weeks	3
Agricultural hydraulics	1 week	1
Husbandry and cash crops	2 weeks	2
Diversification in plant production	2 weeks	2
Biotechnology	1 week	1
Technical and economic analysis of a farm	1 week	1
Bibliography	1 week	2
English	1 week	2
Study trip aboard	2 weeks	1
Thesis (presentation after the 6 months training)		30
Total Coefficient :		
General agricultural formation (1st and 2nd year)	: 200	
Specific formation in Crop Production (3rd year)	: 50	
Thesis	: 50	

# Plant sciences formation presentation :

1st part : Plant and its environment

A Continuum Soil-Plant-Climate 75 hours

- \* Fertility notion (2 h)
- \* Bioclimatology (8h)
- \* Soil -composition, proprieties, analysis (24h)
- \* Relation Plant-Soil (5h)
- \* Pedology-Geology (12h)
- \* Plant growth in relation with other living elements

B Technical aspects in crop production 54 hours

- \* Water management (8h)
- \* Amendment and fertilization (22h)
- \* Soil management
- \* Seeding
- \* Plant amelioration (6h)
- \* Crop protection (18h)

C Studies of some crops in the field (9h)

2nd Part : Yield elaboration in crop production

A Yield elaboration and crop production

- \* Yield elaboration : methods to select the technical itinerary (10h)
- \* Wheat (8h)
- \* Maize (6h)
- \* Industrial crop : sugar beet
- \* Fodder production
- the different productions (12h)
- management of the production on the farm scale (4h)

B Practical study of a global crop production in a farm (9h)

Physic and Machinery

Physic :

- \* Hydraulic (20h)
- fluid static, hydrodynamic, outflow...
- \* Applied thermodynamic (25h)
- air moisture, heat transfer, thermodynamic
- \* Automatism (15h)

Agricultural enginery (55h)

- \* Equipment's for crop production, drainage, irrigation, soil working, harvest