Semester 1

Subjects of Core Units	Class Hours (VHG)	Weekly Lecture Hours	Weekly Tutorial Hours	Weekly Practical Hours	Personal Work Hours	Coefficient	Credits
Physiology of Lactation in Domestic Ruminants	45	1.5	-	1.5	55	2.0	4
Rationing and Dairy Production	67.5	3	1.5	-	82.5	3.0	6
Biochemistry, Microorganisms and Ecosystems of the Dairy Matrix (1)	45	3	-	-	55	2.0	4
Biochemistry, Microorganisms and Ecosystems of the Dairy Matrix (2)	67.5	3	1.5	-	82.5	3.0	6
Core Units Totals	225	10.5	3	1.5	275	10.0	20
Physicochemical and Microbiological Analysis Methods of Milk and Derivatives							
(Part 1)	22.5	1.5	-	-	27.5	1.0	2
(Part 2)	45	1.5	-	1.5	55	2.0	4
Methodology Units Totals	67.5	3	0	1.5	82.5	3.0	6
Subjects of Discovery Units							
Dairy Sector and Food Safety	22.5	1.5	-	-	2.5	1.0	1.0
Discovery Units Totals	22.5	1.5	0	0	2.5	1.0	1.0
Subjects of Cross- Disciplinary Units							
Communication	67.5	1.5	1.5	1.5	7.5	3.0	3.0
English	_	-	-	-	-	-	-
Cross-Disciplinary Units Totals	67.5	1.5	1.5	1.5	7.5	3.0	3.0
TOTALS	382.5	16.5	4.5	4.5	367.5	17.0	30.0

Personal work will be required in the form of presentations.

Semester 2

	Class	Weekly	Weekly	Weekly	Personal	C	~ 11.
Subjects	Hours (VHG)	Lecture Hours	Tutorial Hours	Practical Hours	Work Hours	Coefficient	Credits
Subjects of Core Units							
Process Engineering and Basic Industrial Equipment (1)	67.5	3	1.5	-	82.5	3.0	6
Process Engineering and Basic Industrial Equipment (2)	67.5	3	1.5	-	82.5	3.0	6
Functional Properties of Milk Components	67.5	3	1.5	-	82.5	3.0	6
Packaging and Biopolymers	67.5	3	1.5	-	82.5	3.0	6
Core Units Totals	270	13.5	6	0	330	12.0	24
Subjects of Methodology Units							
Sensory Evaluation Methods for Dairy Products	22.5	1.5	-	-	27.5	1.0	2
Applied Statistics	22.5	1.5	-	-	27.5	1.0	2
Methodology Units Totals	45	3	0	0	55	2.0	4
Subjects of Discovery Units							
Computer Programming	22.5	1.5	-	_	2.5	1.0	1.0
Discovery Units Totals	22.5	1.5	0	0	2.5	1.0	1.0
Subjects of Cross- Disciplinary Units							
Legislation	22.5	1.5	-	-	2.5	1.0	1.0

Subjects	Class Hours (VHG)	Weekly Lecture Hours	Weekly Tutorial Hours	Weekly Practical Hours	Personal Work Hours	Coefficient	Credits
Cross- Disciplinary Units Totals	22.5	1.5	0	0	2.5	1.0	1.0
TOTALS	360	19.5	6	0	390	16.0	30.0

Internship: One-month mandatory internship in a dairy plant (Technology and Laboratory).

Semester 3

Semester 3	1	1	I .	I	I	1	
Subjects	Class Hours (VHG)	Weekly Lecture Hours	Weekly Tutorial Hours	Weekly Practical Hours	Personal Work Hours	Coefficient	Credits
Subjects of Core Units							
Technology of Drinking Milk	67.5	3	_	1.5	82.5	3.0	6
Technology of Fermented Dairy Products and Dairy Desserts	67.5	3	-	1.5	82.5	3.0	6
Cheese Technology (1)		3	_	1.5	82.5	3.0	6
Cheese Technology (2)	45	3	_	_	55	2.0	4
Core Units Totals	247.5	12	0	4.5	302.5	11.0	22
Subjects of Methodology Units							
Automation and Regulation in the Dairy Industry	67.5	3	1.5	-	82.5	3.0	6
Traditional Algerian Dairy Products and Labelling	-	-	-	-	-	-	-
Methodology Units Totals	67.5	3	1.5	0	82.5	3.0	6
Subjects of Discovery Units	_						
Artificial Intelligence	22.5	1.5	_	-	2.5	1.0	1.0
Discovery Units Totals	22.5	1.5	0	0	2.5	1.0	1.0

Subjects	Class Hours (VHG)	Weekly Lecture Hours	Weekly Tutorial Hours	Weekly Practical Hours	Personal Work Hours	Coefficient	Credits
Subjects of Cross- Disciplinary Units							
Entrepreneurship	22.5	1.5	-	-	2.5	1.0	1.0
Cross- Disciplinary Units Totals	22.5	1.5	0	0	2.5	1.0	1.0
TOTALS	360	18	1.5	4.5	390	16.0	30.0

Semester 4

Field: Natural and Life Sciences (SNV)

Program: Food Sciences

Specialization: Milk and Dairy Products Processing Technology

Internship in a company, validated by a thesis and an oral defense.

Subjects	Class Hours (VHG)	Weekly Lecture Hours	Weekly Tutorial Hours	Weekly Practical Hours	Personal Work Hours	Coefficient	Credits
Subjects of Core Units							
Personal Work / Thesis (1)	67.5	1.5	3	-	82.5	3.0	6
Personal Work / Thesis (2)	67.5	1.5	3	-	82.5	3.0	6
Personal Work / Thesis (3)	67.5	1.5	3	-	82.5	3.0	6
Core Units Totals	202.5	4.5	0	9	165	9.0	18
Subjects of Methodology Units							
Company Internship (1)	67.5	1.5	3	-	82.5	3.0	6
Company Internship (2)	37.5	1.5	1	-	37.5	2.0	4
Methodology Units Totals	105	3	0	4	120	5.0	10

Subjects	Class Hours (VHG)	Weekly Lecture Hours	Weekly Tutorial Hours	Weekly Practical Hours	Personal Work Hours	Coefficient	Credits
Subjects of Discovery Units							
Seminars	45	1.5	-	1.5	5	2.0	2.0
Discovery Units Totals	45	1.5	0	1.5	5	2.0	2.0
Subjects of Cross- Disciplinary Units							
(No specific subjects listed)	-	-	-	-	-	-	-
Cross- Disciplinary Units Totals	-	-	-	-	-	-	-
TOTALS	375	9	0	14.5	292.5	17.0	30.0

Global Summary of the Program

(Include total class hours broken down by type - lectures, tutorials, practicals - over the 4 teaching semesters, and by type of UE)

Class Hours (VH)	Core Units (UEF)	Methodology Units (UEM)	Discovery Units (UED)	Cross- Disciplinary Units (UET)	Total
Lectures (Cours)	607.5	180	90	67.5	945
Tutorials (Travaux Dirigés - TD)	135	22.5	0	22.5	180
Practicals (Travaux Pratiques - TP)	225	82.5	22.5	22.5	352.5
Personal Work (Travail personnel)	1072.5	340	12.5	15	1440
Total	2100	625	125	150	2917.5
Credits	84	25	5.0	6.0	120
% of credits per Unit Type	70.00%	20.83%	4.17%	5.00%	100.00%