

1o Semester(ECTs : 31)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
2790	Cell Biology	5	3T + 2P	Bio	Cell Technology / Molec. Biology	C
160	General and Inorganic Chemistry	5	3T + 2P	FSHN	Gen Chemistry	C
3330	Introduction to Informatics	5	2T + 3P	AERD	Inform.	C
555	Mathematics	4	4T	NRMAE	Math. & Stat.	C
105	Statistics	4	4T	NRMAE	Math. & Stat.	C
565	Physics	5	3T + 2P	BIO	Physics	C
545	Introduction to Agriculture	3	3T	CS	Agron.	C
44	English I				For. lang.	

2 Semester (ECTs : 34-35)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
3300	Biochemistry-Biomolecules	5	3T + 2P	BIO	Genetics	C
1280	General Microbiology	5	3T + 2P	CS	Microb.	C
1390	Organic Chemistry	5	3T + 2P	FSHN	Gen Chemistry	C
3445	Computer programming and Applications	5	2T + 3P	AERD	Inform.	C
3365	Plant Physiology	5	3T + 2P	BIO	Molec. Biology	C
44	English II				For. lang.	
3695	Agricultural Zoology and Entomology	5	3T+ 2P	CS	Zoology	Elec.
3615	Didactics: Methodology & Practice	5	5P	AERD	Agric. Econo.	Elec.2/5
2885	Bioclimatology	5	3T + 2P	CS		Elec.2/5

3575	Physics Methods in Biotechnology	5	3T + 2P	BIO	Physics	Elec.2/5
3655	Agriculture	4	2T + 2P	CS	Agron.	Elec.2/5

3 Semester (ECTs : 28-30)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
3400	Biochemistry-Metabolism	5	3T + 2P	BIO	Molec. Biology	C
380	Genetics	5	3T + 2P	BIO	Genetics	C
275	Molecular Biology	5	3T + 2P	BIO	Molec. Biology	C
3290	Instrumental Chemical Analysis	5	3T + 2P	FSHN	Gen Chemistry	C
46	English III				For. lang.	
115	General Viticulture	5	3T + 2P	CS	Vitic.	Elec.2/4
125	Zootechnics	4	2T + 2P	ASA	Zoo Phy.	Elec.2/4
156	Ecology	4	4T	CS	Ecology Env.	Elec.2/4
3660	Food Microbiology	5	3T + 2P	FSHN	Food Micr.	Elec.2/4

4 Semester (ECTs : 34-35)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
165	Analytical Chemistry	5	3T + 2P	FSHN	Gen Chemistry	C
155	Population Genetics	5	3T + 2P	BIO	Genetics	C
3200	Recombinant DNA technology –omics	5	3T + 2P	BIO	Molec. Biology	C
3360	Physical Chemistry	5	3T + 2P	FSHN	Food Physic. Che.	C
3440	Pomology	5	3T + 2P	CS	Pomology	C
47	English IV				For. lang.	

3390	Food Chemistry	5	3T + 2P	FSHN	Food Chem.	Elec.2/6
232	Special Topics in Modern Genetics	5	3T + 2P	BIO	Genetics	Elec.2/6
1500	Beekeeping-Sericulture	5	3T + 2P	CS	Beek.	Elec.2/6
2	Genetics & biology of perennial plants	5	3T + 2P	BIO	Genetics	Elec.2/6
595	Diet and Metabolism	4	4T	FSHN		Elec.2/6
3380	Food Biochemistry	5	3T + 2P	FSHN	Food Bioche.	Elec.2/6

5 Semester (ECTs : 28-30)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
3040	Bioinformatics	5	3T + 2P	BIO	Genetics	C
3210	Microbial Biotechnology	5	3T + 2P	BIO	Molec. Biology	C
3625	Molecular Ecology and Adaptation	5	3T + 2P	BIO	Molec. Biology	C
3600	Nanotechnology and Biosensors	5	3T + 2P	BIO	Cell Techno.	C
48	English V				For. lang.	
16	Organic Agriculture & Authentication of agricultural systems	5	3T + 2P	ASA	Zootech.	Elec.2/6
159	Animal Developmental Physiology	4	2T + 2P	ASA	Zootech.	Elec.2/6
914	Statistical Data Analysis using Statistical Packages	4	4T	CS		Elec.2/6
3602	Plant - Microorganism Interactions	5	3T + 2P	BIO	Molec. Biology	Elec.2/6
3450	Nutrition in the Stages of Life	4	4T	FSHN		Elec.2/6
233	Physics of Life	5	3T + 2P	BIO	Physics	Elec.2/6

6 Semester (ECTs : 29-30)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
3500	Immunology	5	3T + 2P	BIO	Genetics/Physics	C
218	Biophysics	5	3T + 2P	BIO	Physics	C
3180	Analytical Biotechnology	5	3T + 2P	BIO	Enzym. Techn.	C
3170	Pharmacognosy and Bioactive products	5	3T + 2P	BIO	Cell Techno.	C
49	English VI				For. lang.	
1960	Evolution	5	3T + 2P	BIO	Genetics	Elec.2/7
3190	Cell Culture Technology	5	3T + 2P	BIO	Cell Techno.	Elec.2/7
775	Vegetable Production	5	3T + 2P	CS	Veget. Produc.	Elec.2/7
1850	General Phytopathology	5	3T + 2P	CS	Phytopath.	Elec.2/7
1205	Principles of Food Biotechnology	5	3T + 2P	FSHN	Food Biotech.	Elec.2/7
3515	Agricultural Experimentation	5	3T + 2P	CS	Agrono.	Elec.2/7
278	Viral Genetics	4	3T + 1P	BIO	Genetics	Elec.2/7

7 Semester (ECTs : 24-25)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
175	Animal Biotechnology	5	3T + 2P	BIO	Genetics	C
3350	Enzyme Biotechnology	5	3T + 2P	BIO	Enzym. Techno.	C
1405	Molecular Recognition	5	3T + 2P	BIO	Genetics	Elec.3/6
1425	Quantitative Traits	5	3T + 2P	BIO	Genetics	Elec.3/6

3715	Marketing of Agricultural Products and Food I	5	5P	AERD		Elec.3/6
3606	Molecular Biology II	5	3T + 2P	BIO	Molec. Biology	Elec.3/6
680	Farm Animals Nutrition	4	2T + 2P	ASA		Elec.3/6
241	Applications of biomaterials in biotechnology	5	3T + 2P	BIO	Cell Techno.	Elec.3/6

8 Semester (ECTs : 27-30)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
205	Plant Biotechnology	5	3T + 2P	BIO	Molec. Biology	C
2905	Molecular Enzymology and Enzyme Engineering	5	3T + 2P	BIO	Enzym. Techno.	C
3370	Growth, Development and Signal Transduction	5	3T + 2P	BIO	Molec. Biology	C
3220	Plant Development & Intercellular Communication	5	3T + 2P	BIO	Molec. Biology	C
3610	Environmental Biotechnology	5	3T + 2P	BIO	Molec. Biology	Elec.2/7
3050	Model Organisms Genetics	5	3T + 2P	BIO	Genetics / Molec. Biology	Elec.2/7
3601	Organic Agriculture & Authentication of agricultural systems	5	3T + 2P	CS		Elec.2/7
2955	Genetics & biology of perennial plants	5	3T + 2P	CS		Elec.2/7
3570	Nutrition and Public Health	3	3T	FSHN		Elec.2/7
3480	Clinical diet	4	4T	FSHN		Elec.2/7
279	Analysis of Genetics Data	4	4T + 1P	BIO	Genetics	Elec.2/7

9 Semester (ECTs: 29-31)

Les. Code	Course	ECTS	Hours per Week (Theo. + Prac.)	Depart.	Laboratory	Categ.
3604	Clinical and Pharmaceutical Biotechnology	5	3T + 2P	BIO	Enzym. Techno.	C
3603	System Biology	5	3T + 2P	BIO	Molec. Biology	Elec.5/10
234	Plant Biotechnology II	5	3T + 2P	BIO	Molec. Biology	Elec.5/10
3490	Nutrition and Sport	4	3T + 1P	FSHN		Elec.5/10
3607	Human Physiology and Genetics	5	3T + 2P	BIO	Genetics	Elec.5/10
270	Principles and Methods of Plant Improvement	5	3T + 2P	CS		Elec.5/10
12	Hydrobiology – Planktonology	6	3T + 3P	ASA		Elec.5/10
222	Intelligent Systems and Data Mining	5	3T + 2P	AERD	Inform.	Elec.5/10
3725	Strategic Business Planning	5	5P	AERD		Elec.5/10
3580	Quality and Organoleptic Food Control	5	3T + 2P	FSHN		Elec.5/10
236	Data Managment, Analysis and Visualization using R	5	3T + 2P	CS		Elec.5/10

10 Semester (ECTs: 40)

		(ECTS)
1	Practical Training	10
2	Diploma Dissertation	30