

5.3. Distribution of courses according to levels and semesters

Level 1 - Semester 1 (8 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
FAC-10011	General Zoology	3	2	2	4
FAC-10012	General Botany	3	2	2	4
FAC-10013	Applied Mathematics	2	1	2	3
FAC-10014	Physical and Inorganic Chemistry	3	2	2	4
FAC-10015	Principles of Agronomy	3	2	2	4
FAC-10016	Agricultural Economics	2	2	0	2
UNI-10001	*General English	1	1	0	1
	**Elective Uni 1 (Table 13)	2	2	0	2
Total		19			

* = Compulsory-university requirement. ** = Elective-university requirement (Table 13)

Level 1 Semester 2 (7 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
FAC-10017	Principles of Horticulture	3	2	2	4
FAC-10018	Organic Chemistry	3	2	2	4
FAC-10019	Animal Physiology	2	1	2	3
FAC-10020	Principles of Genetics	3	2	2	4
FAC-10021	General Microbiology	3	2	2	4
UNI-10002	*Professional Ethics	1	1	0	1
	**Elective Uni 2 (Table 13)	2	2	0	2
Total		17			

* = Compulsory-university requirement. ** = Elective-university requirement (Table 13).

Total credit hours by completing level 1 = 36

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Dean of Collage

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Faculty of Agriculture

Level 2 Semester 1 (7 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
FAC-20022	Principles of Food and Dairy Sciences	3	2	2	4
FAC-20023	Principles of Animal Production	3	2	2	4
BIO-20041	Biochemistry	3	2	2	4
FAC-20025	Principles of Soil and Water Sciences	3	2	2	4
FAC-20026	Biostatistics and Experimental Design	2	1	2	3
UNI-20003	*Information Technology and Communications	1	1	-	1
	**Elective Fac 1 (Table 16)	2	1	2	3
Total		17			

* = Compulsory-university requirement.

**= Elective-faculty requirement (Table 16).

Level 2 Semester 2 (8 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
FAC-20027	Principles of Plant Pathology	3	2	2	4
BIO-20048	Microbial Physiology	3	2	2	4
FAC-20028	Plant Physiology	2	1	2	3
BIO-20051	Molecular Genetics	2	1	2	3
FAC-20024	General Entomology	3	2	2	4
FAC-20029	Applied Genetic Engineering	2	1	2	3
UNI-20004	*Societal Issues (Univ. Com. req)	1	1	0	1
	**Elective Fac 2 (Table 16)	2	1	2	3
Total		18			

* = Compulsory-university requirement.

**= Elective-faculty requirement (Table 16).

Total credit hours by completing level 2 = 71



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Level 3 - Semester 1 (7 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
BIO-30038	Analytical Chemistry	3	2	2	4
BIO-30046	Microbial Taxonomy	3	2	2	4
BIO-30039	Economic Entomology	3	2	2	4
BIO-30055	Molecular Biology	3	2	2	4
BIO-30044	Chemistry of Proteins and Enzymes	2	1	2	3
	Elective course (Prog. req.) from Table 18	2	1	2	3
	Elective course (Prog. req.) from Table 18	2	1	2	3
Total		18			

Elective course (Prog. req.) from Table 18

Prog. req: Program requirement

Level 3 - Semester 2 (7 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
BIO-30053	Cytology and Cytogenetics	3	2	2	4
BIO-30049	Industrial Microbiology	3	2	2	4
BIO-30042	Animal Biotechnology	2	1	2	3
BIO-30056	Genomics and Bioinformatics	2	1	2	3
BIO-3001	Field training 1	2	0	8	8
	Elective course (Prog. req.) from Table 18	2	1	2	3
	Elective course (Prog. req.) from Table 18	2	1	2	3
Total		16			

Elective course (Prog. req.) from Table 18

Prog. req: Program requirement

Total credit hours by completing level 3 = 105

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Level 4 Semester 1 (8 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
BIO-40058	Animal Genetic Improvement	3	2	2	4
BIO-40054	Gene Technology	2	1	2	3
BIO-40048	Virology	2	1	2	3
BIO-40040	Instrumental Analysis	2	1	2	3
BIO-4001	Scientific Research and Discussions	2	1	2	3
BIO-4002	Field Training 2	2	0	8	8
	Elective course (Prog. req. from Table 19)	2	1	2	3
	Elective course (Prog. req. from Table 19)	2	1	2	3
Total		17			

Elective course (Prog. req. from Table 19)

Prog. Req: Program requirement

Level 4 Semester 2 (8 courses)

Course code	Course Title	Credit hours	Contact hours		
			Theoretical	Practical	Total
BIO-40052	Transgenic Plants	2	1	2	3
BIO-40043	Immunochemistry	2	1	2	3
BIO-40046	Applied Microbiology	3	2	2	4
BIO-40057	Field Crops Biotechnology	2	1	2	3
BIO-40045	Pest Control Biotechnology	2	1	2	3
BIO-4003	Graduation Project	3	1	4	5
	Elective course (Prog. req. from Table 19)	2	1	2	3
	Elective course (Prog. req. from Table 19)	2	1	2	3
Total		18			

Elective course (Prog. req. from Table 19)

Prog. Req: Program requirement

Total credit hours by completing level 4 = 140

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