

The revised curriculum of the Bachelor of Agro-Technology Honors (BAgroTechHons)

University of Colombo Institute for Agro-technology and Rural Sciences (UCIARS)

Course Outline

Total contact hours for a course are given by the allocated Theory –T, Practical – P and Independent Learning - IL through LMS.

SLQF Level 3 (Year 1) - Semester I					
Course code	Department	Course Name	GPA credits	NGPA credits	Total contact hours T:P:IL
AT1112	AT	Principles of Agronomy and Horticulture	2		15:30:55
AT1123	AT	Principles of Crop Biology	3		15:60:75
AT1132	AT	Commercial Nursery Management	2		15:30:55
AT1142	AT	Principles of Soil Science	2		15:30:55
AT1152	AT	Principles of Agricultural Economics	2		30:00:70
FT1112	FT	Anatomy and Physiology of Farm Animals	2		15:30:55
FT1122	FT	Agro-Meteorology and Applied Hydrology	2		15:30:55
FT1132	FT	Mathematics	2		30:00:70
CC1110	CC	English		2	15:30:55
	Total Credits		17	2	165:240:545

SLQF Level 3 (Year 1) - Semester II					
Course code	Department	Course Name	GPA credits	NGPA credits	Total contact hours T:P:IL
AT1213	AT	Production and Management of Vegetables & Field Crops	3		15:60:75
AT1222	AT	Pest and Disease Management	2		15:30:55
AT1233	AT	Commercial Floriculture and Landscape Horticulture	3		15:60:75
AT1242	AT	Soil and Plant Nutrient Management	2		15:30:55
FT1212	FT	Ruminant Management	2		15:30:55
FT1223	FT	Farm Power and Mechanization	3		15:60:75
FT1232	FT	Introduction to Food and Nutrition	2		15:30:55
CC1210	CC	Information Communication Technology	0	2	00:30:70
CC1220	CC	English	0	2	15:30:55
	Total Credits		17	4	120:360:570
	Total Credits at Level 3		34	6	285:600:1115

SLQF Level 4 (Year 2) - Semester I

Course code	Department	Course Name	GPA credits	NGPA credits	Total contact hours T:P:IL
AT2113	AT	Production and Management of Plantation Crops	3		30:30:90
AT2122	AT	Principles of Genetics	2		15:30:55
AT2132	AT	Production and Management of Fruit Crops	2		15:30:55
AT2142	AT	Agribusiness Management	2		15:30:55
AT2152	AT	Basic Statistics	2		15:30:55
FT2112	FT	Non-Ruminant Management	2		15:30:55
FT2121	FT	Introduction to Aquaculture	1		15:00:35
FT2133	FT	Food Processing & Postharvest Technology	3		30:30:90
CC2110	CC	English	0	2	15:30:55
	Total Credits		17	2	165:240:545

SLQF Level 4 (Year 2) - Semester II

Course code	Department	Course Name	GPA credits	NGPA credits	Total contact hours T:P:IL
AT2212	AT	Production and Management of Export Agricultural Crops	2		15:30:55
AT2222	AT	Plant In-vitro Propagation Technology	2		15:30:55
AT2232	AT	Protected Agriculture	2		15:30:55
AT2242	AT	Agricultural Extension and Communication Technology	2		30:00:70
FT2213	FT	Animal Breeding and Genetics	3		30:30:90
FT2222	FT	Farm Planning and Designing	2		15:30:55
FT2232	FT	Irrigation and Water Resource Engineering	2		15:30:55
FT2242	FT	Agrostology and Grassland Management	2		15:30:55
CC2210	CC	Life-Skills Development	0	2	00:30:70
CC2220	CC	English	0	2	15:30:55
	Total Credits		17	4	165:270:615
	Total Credits at Level 4		34	6	330:510:1160

SLQF Level 5 (Year 3) - Semester I

Course code	Department	Course Name	GPA credits	NGPA credits	Total contact hours T:P:IL
AT3112	AT	Agro-Ecology	2		15:30:55
AT3122	AT	Applications of Crop Improvements and Biotechnology	2		15:30:55

AT3132	AT	Crop Modeling	2		15:30:55
AT3142	AT	E-Commerce and E-Agriculture	2		15:30: 55
AT3152	AT	Agricultural Project Analysis & Management	2		15:30:55
AT3162	AT	Elective course 1 Agroforestry and Silviculture	2		15:30:55
AT3172	AT	Elective course 1 Apiculture			
FT3112	FT	Elective Course 1 Renewable Energy			
FT3122	FT	Elective Course 1 Cereal Chemistry and Bakery Science			
FT3132	FT	Animal Product Processing Technology	2		15:30: 55
FT3142	FT	IoT and Electronics for Agriculture	2		15:30:55
FT3152	FT	Precision Agriculture	2		15:30:55
CC3110	CC	Principles of Humanities and Social Sciences	0	2	15:30:55
CC3120	CC	English	0	2	15:30:55
Total Credits			18	4	165:330:605

SLQF Level 5 (Year 3) - Semester II

Course code	Department	Course Name	GPA credits	NGPA credits	Total contact hours T:P:IL
AT3214	AT	Crop Production Practices	4		00:120:80
AT3221	AT	Research Methodology and Proposal Development	1		15:00:85
AT3232	AT	Entrepreneurship & Business Planning	2		30:00:70
AT3242	AT	Agricultural Experimentation and Data Analysis	2		15:30:55
AT3252	AT	Elective course 2 Production and Management of Medicinal Plants	2		15:30:55
AT3262	AT	Elective course 2 Agro-Tourism			
FT3212	FT	Elective course 2 Waste Management			
FT3222	FT	Elective course 2 Industrial Fermentation Technology			
FT3233	FT	Livestock Production Practices	3		00:90:110
FT3242	FT	Agriculture Engineering Practices	2		00:60:90
CC3210	CC	English	0	2	15:30:55
Total Credits			16	2	90:360:600
Total Credits at Level 5			36	6	255:690:1205

SLQF Level 6 (Year 4) – Semester I

Specialized Module – Crop Science					
AT4112	AT	Technologies for Small Scale Enterprise Development	2		15:30:55
AT4122	AT	Advanced Landscape Horticulture	2		15:30:55
AT4132	AT	Phytochemistry of Export Agriculture Crops	2		15:30:55
Total Credits			6	0	45:90:165
Specialized Module – Agricultural Biology					
AT4142	AT	Advanced Plant Physiology	2		15:30:55
AT4152	AT	Nematology and molecular plant pathology	2		15:30:55
AT4162	AT	Advanced Plant Breeding and Biotechnology	2		15:30:55
Total Credits			6	0	45:90:165
Specialized Module – Agricultural Economics					
AT4172	AT	Agricultural Resource Management	2		15:30:55
AT4182	AT	Econometrics	2		15:30:55
AT4192	AT	International Business and Trade	2		15:30:55
Total Credits			6	0	45:90:165
Specialized Module – Animal Science					
FT4112	FT	Advanced Aquaculture Production Technology	2		15:30:55
FT4122	FT	Animal Health, Welfare and Ethics	2		15:30:55
FT4132	FT	Applied Animal Nutrition	2		15:30:55
Total Credits			6	0	45:90:165
Specialized Module – Agriculture Engineering					
FT4142	FT	Food Process Engineering	2		15:30:55
FT4152	FT	Advanced Land Water Resource Engineering	2		15:30:55
FT4162	FT	Mechanics of Machinery and Instrumentation	2		15:30:55
Total Credits			6	0	45:90:165
Specialized Module – Food Science					
FT4172	FT	Food Hygiene, Safety and Standards	2		15:30:55
FT4182	FT	Food Physics	2		15:30:55
FT4192	FT	Advanced Food Analysis	2		15:30:55
Total Credits			6	0	45:90:165
AT4116/ FT4116	AT/FT	Internship and Case Study	6	0	00:360:430
Total Credits			12	0	75:330:595

SLQF Level 6 (Year 4) – Semester II

AT4216/ FT4216	AT/FT	Research Project	6		150:270:660
	Total Credits		6	0	150:270:660
	Total Credits at Level 6		18	0	225:600:1255

Total Credit allocation

Year	GPA Credits		Total	Non GPA Credits		Total
	Semester I	Semester II		Semester I	Semester II	
Year I	17	17	34	2	4	6
Year II	17	17	34	2	4	6
Year III	18	16	34	4	2	6
Year IV	12	6	18	0	0	0
	Total		120		Total	18

Specialization Modules (06)

During the Forth (4th) year of study students can specialize in one of the following module. Each department offers three specialization modules.

1. Crop Science - AT
2. Agricultural Biology – AT
3. Agricultural Economics - AT
4. Animal Science - FT
5. Agriculture Engineering - FT
6. Food Science - FT