



Master program of Science in Biology

First Level

Course Number and Symbol	Course name	Credits	Required course
STAT 601	Advanced Biostatic	3	-
BIO 601	Advanced Life Chemistry	3	-
BIO 602	Selected Topics in biology	3	-
BIO 603	Seminar	1	-
Total		10	

Second Level

Course Number and Symbol	Course name	Credits	Required course
BIO 604	Research Methodology	3	-
-	Optional Course (1)	3	-
-	Optional Course (2)	3	-
Total		9	

Third Level

Course Number and Symbol	Course name	Credits	Required course
-	Optional Course (3)	3	-
-	Optional Course (4)	3	-
Total		6	

Fourth Level

Course Number and Symbol	Course name	Credits	Required course
BIO699	Thesis	8	-
Total		8	



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33 credits required = 25credits for courses(13Compulsory courses+12 optional courses)+(8) credit for thesis

A. Main courses For both (Zoology Track and Botany Track)

Required course	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
-	STAT 601	Advanced Biostatic	2	1	3	-
-	BIO 601	Advanced Life Chemistry	2	1	3	-
-	BIO 602	Selected Topics in biology	2	1	3	-
-	BIO 603	Seminar	1	-	1	-
-	BIO 604	Research Methodology	2	1	3	-



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B. optional courses For Zoology Track

specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Physiology	BIO 605	Advanced Cell Physiology	2	1	3	-
	BIO 606	Nervous System Physiology	2	1	3	-
	BIO 607	Physiology of endocrine glands	2	1	3	-
	BIO 608	Advanced Immunology	2	1	3	-
	BIO 609	Selected Topics in Physiology	2	1	3	-



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specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Cytology and histology	BIO 610	Advanced Cell Biology	2	1	3	-
	BIO611	Advanced Histochemistry	2	1	3	-
	BIO612	Animal Cell and Tissue Culture	2	1	3	-
	BIO613	Toxicology and Antioxidants	2	1	3	-
	BIO614	Tumour Biology	2	1	3	-
	BIO 615	Selected Topics in Cytology and Histology	2	1	3	-



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specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Entomology	BIO616	Advanced Insect Systematic and Classification	2	1	3	-
	BIO617	Insectal Disease Vector	2	1	3	-
	BIO618	Insect Physiology	2	1	3	-
	BIO619	Applied Entomology	2	1	3	-
	BIO620	Insectal Biological Control	2	1	3	-
	BIO621	Selected Topics in Entomology	2	1	3	-



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specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Parasitology	BIO622	Advanced Parasitology	2	1	3	-
	BIO623	Ecology of Parasites	2	1	3	-
	BIO624	Physiology of Parasites	2	1	3	-
	BIO625	Molecular Parasitology	2	1	3	-
	BIO626	Selected Topics in Parasitology	2	1	3	-



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specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Animal Ecology	BIO627	Animal Ecology and Pollution	2	1	3	-
	BIO628	Conservation of livestock	2	1	3	-
	BIO629	Methods of Measuring Pollution	2	1	3	-
	BIO 630	Ecophysiology	2	1	3	-
	BIO 631	Selected Topics in Animal Ecology	2	1	3	-



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C. optional courses For Botany Track

specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Plant Physiology	BIO 638	Water and Nutrition Plant Relationships	2	1	3	-
	BIO 639	Enzymology and Metabolism in Plant	2	1	3	-
	BIO640	Plant Stress Physiology	2	1	3	-
	BIO641	Plant Tissue Cultural and Organs Formation	2	1	3	-
	BIO642	Selected Topics in Plant Physiology	2	1	3	-



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specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Microbiology	BIO643	Microbial Ecology	2	1	3	-
	BIO644	Advanced Microbial Physiology	2	1	3	-
	BIO645	Applied Microbiology	2	1	3	-
	BIO646	Antibiotics	2	1	3	-
	BIO647	Advanced Microbial Genetics	2	1	3	-
	BIO 648	Selected Topics in Microbiology	2	1	3	-



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specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Plant Taxonomy and Flora	BIO649	Advanced plant Taxonomy	2	1	3	-
	BIO650	plant Geography and maps	2	1	3	-
	BIO651	Diversity and Evolution of Plant	2	1	3	-
	BIO652	Experimental plant Taxonomy	2	1	3	-
	BIO653	Selected Topics in Plant Taxonomy and Flora	2	1	3	-



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specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Plant Ecology	BIO654	Desert Ecology	2	1	3	-
	BIO655	Advanced Plant Ecology	2	1	3	-
	BIO656	Advanced Biodiversity	2	1	3	-
	BIO657	Advanced Medicinal and Economical Plants	2	1	3	-
	BIO658	Selected Topics in Plant Ecology	2	1	3	-



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D. Common Courses For both (Animal Track and Botany Track)

specialty	Course Number and Symbol	Course name	credits			Required course
			theoretical	practical	total	
Genetics	BIO 632	Advanced Cytogenetics	2	1	3	-
	BIO 633	Clans Genetics	-	-	-	-
	BIO634	AdvancedMolecular Genetics	2	1	3	-
	BIO635	Genetics Engeneering	2	1	3	-
	BIO636	Selected Topics in Genetics	2	1	3	-
	BIO637	Biotechnology of Electron Microscopy	2	1	3	-



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E. Common Courses

F. Thesis

Course Number and Symbol	Course name	credits			Required course
		theoretical	practical	total	
BIO 699	Thesis	8	-	8	-
Total Credits				33	

Courses from other departments:

Course symbol and number	Course Name	Credits	department
STAT 601	3	3	Statics