$BSc\ in\ Horticultural\ Engineering-Curriculum\ Chart$

Term 1

Courses	Credits	Code	Prerequisites	Туре
Mathematics (General-Basic)	٣	۳۸۱۳ ۰ ۱۲		Required
General Chemistry	۲	٣٨١٧٠٧٢		Required
General Chemistry Lab	١	٣٨١٧٠٨٠		Required
General Physics	۲	٣٨١٥٠٠٧		Required
General Physics Lab	1	4719.14		Required
Plant Anatomy and Physiology	۲	1716.79		Required
Plant Anatomy and Physiology Lab	1	ነለነ የ • ለ የ		Required
General Persian	٣	17167		Required
Islamic Thought 1	۲	۳۸۱۸·۰۱		Required
Student Life Skills	۲	7719.97		Elective
Total Credits	19			

Term 2

Courses	Credits	Code	Prerequisites	Type
Plant Morphology and Classification	۲	١٨١۶٠٨٩	Plant Anatomy and	Required
			Physiology	
Plant Morphology and Classification	١	1119.9.	-	Required
Lab				
General Biochemistry	٣	1119.40	General Chemistry	Required
Ecology	٣	1116171	-	Required
General Soil Science	۲	1119.90	General Chemistry	Required
General Soil Science Lab	١	1119.99	-	Required
English Language	٣	٣٨١٩٠٠٧	-	Required
Islamic Thought 2	۲	٣٨١٨٠٠٢	Islamic Thought 1	Required
Total Credits	17			

Term 3

Courses	Credits	Code	Prerequisites	Type
Statistics	٣	1119.14	Mathematics (General-	Required
			Basic)	
Genetics	۲	1716.97	-	Required
Genetics Lab	١	1716.97	-	Required
Fundamentals of Medicinal	۲	1711.47	-	Required
Plants				
Principles and Methods of Plant	۲	١٨٢١٠٠٨	-	Required
Propagation				
Principles and Methods of Plant	1	1711.4	-	Required
Propagation Lab				
Principles and Methods of	7	1716.99	Mathematics (General-	Required
Irrigation			Basic) / General Soil	
			Science	
Principles and Methods of)	17161	-	Required
Irrigation in Practice				
Agricultural Meteorology and	۲	11161.9	General Physics	Required
Climatology				
Agricultural Meteorology and)	171611.	-	Required
Climatology Lab				
Thematic Commentary of the	7	TAIA T	-	Required
Holy Quran				
Physical Education 1	١	7711	-	Required
Total Credits	20			

Term 4

Courses	Credits	Code	Prerequisites	Type
Weeds Identification and Control	۲	١٨١٦١٠٣	Plant Morphology and	Required
			Classification	
Weeds Identification and Control	١	17161.6	-	Required
Lab				
Agricultural Design of Experiments	٣	1716.2.	Statistics and	Required
			Probability	
Important Horticultural Plant	۲	1711.1	Plant Anatomy and	Required
Diseases			Physiology	
Important Horticultural Plant	١	1711	-	Required
Diseases Lab				
Fundamentals of Vegetable Farming	۲	1711.	-	Required
Vegetable Farming Skills 1	1	1771.77	-	Required
Analytical History of the Early Islam	۲	۳۸۱۸۰۰۴	-	Required
Internship 1	٣	1119	-	Required
Total Credits	17			

Term 5

Courses	Credits	Code	Prerequisites	Type
Fundamentals of Horticultural	۲	1711.5	Plant Anatomy and	Required
Plants Nutrition			Physiology	
Fundamentals of Horticultural	1	1741	-	Required
Plants Nutrition Lab				
Fundamentals of Horticultural	۲	١٨٢١٠١٠	Genetics	Required
Plants Breeding				
Fundamentals of Horticultural	1	1741.11	-	Required
Plants Breeding Lab				
Greenhouse Management	۲	١٨٢١٠٠٥	-	Required
Ornamental Plants 1	۲	1711.46	Principles and Methods of	Required
			Plant Propagation	
Floriculture Skills 1	1	1711.45	-	Required
Small Fruits	۲	1711.46	Principles and Methods of	Elective
			Plant Propagation	
Small Fruits Lab	1	١٨٢١٠٣٥	-	Elective
Islamic Ethics	۲	٣٨١٨٠٠۶	-	Required
Total Credits	16			

Term 6

Courses	Credits	Code	Prerequisites	Type
Ornamental Plants 2	۲	1711.49	Principles and Methods	Required
			of Plant Propagation	
Floriculture Skills 2	١	1711.47	-	Required
Medicinal Plants Production and	۲	1711.4	-	Required
Exploitation				
Medicinal Plants Production and	1	1711.2.	-	Required
Exploitation Lab				
Vegetable Production and Cultivation	٣	17111	Fundamentals of	Required
			Vegetable Farming	
Vegetable Farming Skills 2	1	1711.42	-	Required
Temperate Fruits	٣	171116	Principles and Methods	Required
			of Plant Propagation	
Pomology Skills 1	١	171117	-	Required
Physical Education 2	١	7717	Physical Education 1	Required
Islamic Revolution and its Roots	۲	٣٨١٨٠٠٥	-	Required
Total Credits	17			

Summer Courses

Courses	Credits	Code	Prerequisites	Type
Internship 2	3	1821032		Required
Total Credits	3			

Term 7

Courses	Credits	Code	Prerequisites	Type
Dry Fruits	۲	1711.44	-	Elective
Cultivation of Edible Mushrooms	۲	1771.6.	-	Elective
Cultivation of Edible Mushrooms in	١	1771.41	-	Elective
Practice				
Tropical and Subtropical Fruits	٣	171111	Principles and Methods	Required
			of Plant Propagation	
Pomology Skills 2	١	١٨٢١٠١٩	-	Required
Post-harvest Technology and	۲	171.14	Plant Anatomy and	Required
Physiology			Physiology	
Post-harvest Technology and	١	171112	-	Required
Physiology Lab				
Horticultural Plant Seeds Technology	۲	171114	Fundamentals of	Required
and Breeding			Horticultural Plants	
			Breeding	
Horticultural Plant Seeds Technology	1	171119	-	Required
and Breeding Lab				
Knowledge of Family and Population	۲	٣٨١٨٠٠٧	-	Required
Total Credits	17			

Term 8

Courses	Credits	Code	Prerequisites	Type
Agricultural Machinery	۲	17161.1	-	Required
Agricultural Machinery Workshop	١	17161.4	-	Required
Agricultural Design of Experiments	٣	1119.90	Agricultural Design of	Required
2			Experiments 1	
Greenhouse Vegetable Farming	۲	1711.46	-	Elective
Greenhouse Vegetable Farming in	١	1711.4	-	Elective
Practice				
Fundamentals of Plant Tissue	۲	1711.9.	Genetics	Elective
Culture and Biotechnology				
Important Horticultural Plant Pests	۲	1711	-	Required
Important Horticultural Plant Pests	١	17116	-	Required
Lab				
Total Credits	14			