$BSc\ in\ Soil\ Science\ and\ Engineering-Curriculum\ Chart$

Term 1

Courses	Credits	Code	Prerequisites	Type
Mathematics (General-Basic)	٣	۳۸۱۳ ۰ ۱۲		Required
General Physics 1	۲	٣٨١٥٠٠٧		Required
General Physics 1 Lab	١	4719.14		Required
General Chemistry	۲	٣٨١٧٠٧٢		Required
General Chemistry Lab	1	٣ ٨١٧٠ ٨٠		Required
Plant Anatomy and Physiology	۲	1716.79		Required
Plant Anatomy and Physiology Lab	1	ነለነ የ • ለ የ		Required
English Language	٣	٣٨١٩٠.٧		Required
Islamic Thought 1	۲	٣ ٨١٨٠٠١		Required
Student Life Skills	۲	7770.97		Elective
Total Credits	19			

Term 2

Courses	Credits	Code	Prerequisites	Type
Ecology	٣	1115171	-	Required
Biology	۲	1716.11	-	Required
Organic Chemistry	۲	1119.91	General Chemistry	Required
Organic Chemistry Lab	١	1716.97	-	Required
Geology	١	1119177	-	Required
Geology Lab	١	١٨١٦٢٨	-	Required
General Agriculture	۲	1119179	-	Required
General Agriculture Lab	١	111914.	-	Required
General Soil Science	۲	1119.90	General Chemistry	Required
General Soil Science Lab	١	1119.99	-	Required
Islamic Thought 2	۲	٣٨١٨٠٠٢	Islamic Thought 1	Required
Physical Education 1	١	7711	-	Required
Total Credits	19			_

Courses	Credits	Code	Prerequisites	Type
Analytical Chemistry	۲	1714.41	General Chemistry	Required
Analytical Chemistry Lab	١	1714.42	-	Required
Meteorology and Climatology	۲	11191.9	General Physics 1	Required
Meteorology and Climatology	١	171611.	-	Required
Lab				
Statistics and Probability	٣	1119.14	Mathematics	Required
			(General-Basic)	
Soil Physics	۲	1714.44	General Soil Science	Required
Soil Physics Lab	١	1114.40	-	Required
Agricultural Machinery	۲	17161.1	-	Required
Agricultural Machinery Lab	١	17161.2	-	Required
Thematic Commentary of the	۲	۳۸۱۸۰۰۳	-	Required
Holy Quran				
Total Credits	17			

Term 4

Courses	Credits	Code	Prerequisites	Type
Cartography	١	١٨٢٨٠٩٨	-	Required
Cartography Lab	١	1777.99	-	Required
General Horticulture	۲	11191.0	-	Required
General Horticulture in Practice	١	11191.9	-	Required
Principles and Methods of Irrigation	۲	1119.99	General Soil Science	Required
Principles and Methods of Irrigation	١	14161	-	Required
in Practice				
Wind Erosion	١	17164	General Soil Science	Required
Wind Erosion Lab	١	17166.1	-	Required
Soil Chemistry	۲	1114.49	General Soil Science	Required
Soil Chemistry Lab	١	1714.41	-	Required
Analytical History of the Early Islam	۲	٣٨١٨٠٠۴	-	Required
Internship 1	٣	1119	General Soil Science/	Required
_			General Agriculture	_
Total Credits	18			

Courses	Credits	Code	Prerequisites	Type
Soil Classification	١	١٨١۴٠٨١	General Soil Science/	Required
			Geology	
Soil Classification in Practice	١	١٨١۴٠٨٢	-	Required
Saline-Sodic Soils	۲	1714.47	General Soil Science	Required
Saline-Sodic Soils Lab	1	1714.49	-	Required
Soil Fertility and Fertilizers	۲	1114.0.	General Soil Science	Required
Soil Fertility and Fertilizers	١	1714.91	-	Required
Lab				
Origin of Soil	۲	1714.7.	General Soil Science/	Required
			Geology	
General Biochemistry	٣	1119.80	Organic Chemistry	Elective
General Persian	٣	٣٨١۶٠٠٨	-	Required
Islamic Ethics	۲	٣٨١٨٠٠۶	-	Required
Total Credits	18			

Term 6

Courses	Credits	Code	Prerequisites	Type
Erosion and Soil Conservation	۲	١٨١۴٠٧٨	General Soil Science	Required
Erosion and Soil Conservation in	١	1714.14	-	Required
Practice				
Agricultural Design of Experiments	٣	1919.8.	Statistics and Probability	Required
Soil Microbiology	۲	1714.74	Biology	Required
Soil Microbiology Lab	١	١٨١۴٠٨۴	-	Required
Identification and Production of Soil	۲	1114.09	Cartography	Required
Maps				
Identification and Production of Soil	١	1714.91	-	Required
Maps				
Plant Nutrition	۲	1714.97	Soil Fertility and	Required
			Fertilizers	
Plant Nutrition Lab	١	1714.9	-	Required
Internship 2	٣	1714199	Most of the Required	Required
-			courses	
Islamic Revolution and its Roots	۲	٣٨١٨٠٠٥	-	Required
Total Credits	20			

Courses	Credits	Code	Prerequisites	Type
Environmental Pollution	۲	1716.17	-	Elective
Physical Education 2	١	7717	Physical Education 1	Required
Water, Soil, and Plant Relationship	۲	1119.0.	General Soil Science/	Required
			Principles and Methods	
			of Irrigation	
Water, Soil, and Plant Relationship Lab	١	1119.01	-	Required
Soil Biology	۲	1714.	Soil Microbiology	Required
Soil Biology Lab	١	1716.61	-	Required
Fundamentals of Drainage	۲	1114.49	Principles and Methods	Required
			of Irrigation	
Fundamentals of Drainage in Practice	١	1714.77	-	Required
English for Students of Soil Science	٣	17161.2	-	Required
and Engineering				
Knowledge of Family and Population	۲	۳۸۱۸ ۰۰ ۷	-	Required
Total Credits	17			

Courses	Credits	Code	Prerequisites	Type
Soil and Land Evaluation	۲	1114.54	Identification and	Required
			Production of Soil Maps	
Soil and Land Evaluation in Practice	١	1114.90	-	Required
Computer Programming	۲	1716122	-	Elective
Computer Programming in Practice	١	1119186	-	Elective
Compost	۲	1716162	Soil Biology	Elective
Soil Management in Sustainable	۲	١٨١۴٠٨٩	-	Required
Agriculture				
Skill Training	۴	1714.61	-	Required
Total Credits	14			