

BSc in Agricultural Mechanization Engineering – Curriculum Chart

Term 1

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Mathematics 1	۳		-	B
Physics 1	۲		-	B
Physics 1 Lab	۱		(Physics 1)	B
General Chemistry	۳		-	B
Industrial Drawing 1	۱		-	R
Industrial Drawing 1 Practice	۱		(Industrial Drawing 1)	R
English Language	۳		-	G
Student Life Skills	۲		<i>to be presented in Term 1</i>	G
Islamic Thought 1	۲		-	G
Total Credits	۱۸			

Term 2

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Mathematics 2	۳		Mathematics 1	B
Physics 2	۲		Physics 1 - Mathematics 1	B
Physics 2 Lab	۱		(Physics 2)	B
Engineering Statistics	۳		Mathematics 1	R
General Agriculture	۲		-	R
General Agriculture Practice	۱		(General Agriculture)	R
General Irrigation	۲		Mathematics 1	R
General Irrigation Practice	۱		(General Irrigation)	R
Energy Production and Provision Resources	۲		-	R
Total Credits	۱۷			

Term 3

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Agricultural Economics and Marketing	۳		Mathematics 1	R
Computer Programming	۲		Mathematics 1	B
Computer Programming Practice	۱		(Computer Programming)	B
General Agricultural Machinery	۲		-	R
General Agricultural Machinery Workshop	۱		(General Agricultural Machinery)	R
Fundamentals of Electrical Engineering 1	۲		Physics 2	R
Fundamentals of Electrical Engineering 1 Lab	۱		(Fundamentals of Electrical Engineering)	R
Engineering Experiments Design and Analysis	۲		Engineering Statistics	R
Engineering Experiments Design and Analysis Practice	۱		(Design and Analysis)	R
Industrial Drawing 2	۱		Industrial Drawing 1	R
Industrial Drawing 2 Practice	۱		(Drawing 2)	R
Islamic Thought 2	۲		-	G
Total Credits	۱۹			

Term 4

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Agricultural Mechanization	۳		Agricultural Machinery	R
Microeconomics	۳		Mathematics 1	R
Simulation Principles	۳		Mathematics 1	R
Fundamentals Renewable Energy Sources	۳		-	R
Principles of Accounting and Cost Finding	۳		-	R
Welding and Sheet Metal Workshop	۱		-	R
Persian Language	۳		-	G
Total Credits	۱۹			

Term 5

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Fundamentals of Energy Management	۳			R
Food Processing Machinery and Equipment	۳			R
Energy Audit	۳			R
Decision Making Support Systems	۳			R
Environmental Laws and Policies	۲			R
Agriculture and Sustainable Development	۲			R
Islamic Ethics	۲			G
Physical Education 1	۱			G
Total Credits	۱۹			

Term 6

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Internal Combustion Engines	۳		-	R
Internal Combustion Engines Practice	۱		(Internal Combustion Engines)	R
Energy Economics	۲		-	R
Life Cycle Assessment	۲		-	R
Energy Conservation and Efficiency Methods	۳		-	R
Agricultural Mechanization Operations Research	۳		Mathematics 1 - Engineering Statistics	R
Thematic Commentary of the Quran	۲		-	G
Physical Education 2	۱		Physical Education 1	G
Total Credits	۱۷			

Summer Course

Courses	Credits	Code	Prerequisites	Type
Internship	3		<i>to be offered in the third summer</i>	R
Total Credits	3			

Term 7

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Engineering Economics	۲		-	R
Engineering Management	۲		-	R
Pollution Measurement and Assessment	۲		-	R
Identification and Application of Hydraulic and Pneumatic Systems	۲		-	E
Identification and Application of Hydraulic and Pneumatic Systems Practice	۱		(Identification and Application of Hydraulic and Pneumatic Systems)	E
English for Students of Agricultural Mechanization	۲		English Language	E
Knowledge of Family and Population	۲		-	G
Analytical History of the Early Islam	۲		-	G
Total Credits	۱۵			

Term 8

Courses	Credits	Code	Prerequisites	Type
Project Control Management	۲		-	R
General Horticulture	۲		-	R
General Horticulture Practice	۱		-	R
Environmental Economics	۳		-	R
Repair and Maintenance Engineering	۲		-	E
Repair and Maintenance Engineering Practice	۱		(Repair and Maintenance Engineering)	E
Islamic Revolution of Iran	۲		-	G
Climate Change	۲		-	G
Total Credits	۱۵			

Course Types: G=General

B=Basic

R=Required

E=Elective