# ${\bf BSc\ in\ Industrial\ Engineering-Curriculum\ Chart}$

### Term 1

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
General Mathematics 1	٣	۳۸۱۳ <b>۰۰</b> ۳	-	В
General Physics 1	٣	47194	(Mathematics 1)	В
Materials Science	٣	77.1.77	-	R
General Economics 1	۲	۲۸۰۱۰۱۰	-	R
Industrial Drawing	۲	77.1.77	-	R
Physics 1 Lab	١	4719.11	(Physics 1)	В
English Language	٣	۳۸۱۹۰۰۷	-	G
Persian Language	٣	٣٨١۶٠٠٨	-	G
Total Credits	۲.			

#### Term 2

Courses	Credits	Code	Prerequisites/ (Corequisites)	Type
General Mathematics 2	٣	٣٨١٣٠.۴	Mathematics 1	В
General Physics 2	٣	٣٨١٥٠٠٥	Physics 1	В
Differential Equations	٣	٣٨١٣٠٠٩	(Mathematics 2)	В
General Economics 2	۲	77.1.11	General Economics 1	R
Computer Programming	٣	٣ <b>٨١۶٠</b> ٣٩	Mathematics 1	В
Physics 2 Lab	١	٣٨١٥٠١٢	(Physics 2)	В
Analytical History of the Early	۲	٣٨١٨٠٠۴	-	G
Islam				
General Welding Workshop	١	71.1.2	-	
Total Credits	١٨			

### Term 3

Courses	Credits	Code	Prerequisites/	Type
			(Corequisites)	
Statics and Strength of Materials	٣	77.1.77	Mathematics 1	R
Theory of Probability and its	٣	71.1.17	Mathematics 2	R
Application				
Linear Algebra	٣	74.1.14	Mathematics 1	R
Production Methods	٣	71.1.79	(Machine Tool	R
			Workshop)	
Engineering Economics	٣	71.1.79	General Economics 2	R
Physical Education 1	١	7711	-	G
Islamic Thought 1	۲	٣٨١٨٠٠١	-	G
Machine Tool Workshop 1	١	71.1.40	-	
Total Credits	19			

### Term 4

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Operations Research 1	٣	71.1.7.	Theory of Probability and its	R
			Application - Linear Algebra	
Engineering Statistics	٣	٣٨٢٠٠١٣	Theory of Probability and its	R
			Application	
Time and Work Assessment	٣	71.1.17	Production Methods	R
Principles of Organizational	۲	77.1.77	minimum of 50 credits	R
Management and Theory				
Fundamentals of Electrical	٣	71.1.74	Physics 2	R
Engineering				
Knowledge of Family and	۲	<b>TAIA</b>	-	G
Population				
Fundamentals of Electrical	١	71.1.70	(Fundamentals of Electrical	R
Engineering Lab			Engineering)	
Total Credits	١٧			

### Term 5

Courses	Credits	Code	Prerequisites/	Type
			(Corequisites)	
Operations Research 2	٣	71.1.71	Operations Research 1	R
Decision Making Analysis	٣	71.1.47	Operations Research 1	Е
Industrial Units Planning	٣	71.1.10	Production Methods -	R
			Industrial Drawing - Time	
			and Work Assessment	
Information Management Systems	٣	71.1.47	Computer Programming	Е
Inventory Planning and Control 1	٣	71.1.7.	Operations Research 1	R
Numerical Analysis	۲	<b>TAIT.IT</b>	Computer Programming	В
Thematic Commentary of the Quran	۲	٣٨١٨٠٠٣	Operations Research 1	G
Total Credits	19			

#### Term 6

Courses	Credits	Code	Prerequisites / (Corequisites)	Type
Production Planning	٣	۲۸۰۱۰۳۱	Inventory and Control Planning 1	R
Principles of Accounting and	٣	71.1.77	Inventory and Control Planning 1	R
Cost Finding				
Principles of Marketing	۲	77.1.20	minimum of 80 credits	Е
Statistical Quality Control	٣	۲۸۰۱۰۱۶	Engineering Statistics	R
Project Management and	٣	77.1.14	Operations Research 1	R
Control				
Physical Education 2	١	7717	-	G
Islamic Thought 2	۲	۳۸۱۸ <b>۰۰</b> ۲	-	G
Casting, Melting and Modelling	١	77.1.24	-	
Workshop				
Total Credits	١٨			

Term 7

Courses	Credits	Code	Prerequisites	Type
Feasibility Studies	٣	77.1.44	Engineering Economics -	E
			Principle of Management	
			- Industrial Units	
			Planning	
Probable Models and Queueing Theory	٣	74.1.27	Theory of Probability and	Е
			its Applications	
Efficiency and Quality Management	٣	14.1.2.	Statistical Quality	Е
			Control	
Islamic Revolution and its Roots	۲	٣٨١٨٠٠٥	-	G
Industrial Health and Safety	۲	۱۸۰۱،۳۶	Time and Work	Е
			Assessment	
Project	٣	7.1.77	to be selected in the final	R
-			year only	
Total Credits	19			

## Term 8

Courses	Credits	Code	Prerequisites	Type
Transportation Planning	٣	77.1.91	Operations Research 1	Е
Islamic Ethics	۲	۳۸۱۸·۰۶	-	G
Simulation Principles	٣	77.1.77	Engineering Statistics -	R
			Computer Programming	
Repair and Maintenance Planning	٣	77.17	Engineering Economics -	Е
			Theory of Probability	
Systems Design and Analysis	٣	1477196	Differential Equations	Е
Internship	1	71.1.00	to be selected after the third	
			year only	
Total Credits	10			

Course Types: G=General B=Basic R=Required E=Elective