

Curriculum of Industrial Engineering, B.Sc.

First semester		Second semester		Third semester		Fourth semester		Fifth semester		Sixth semester		Seventh semester		Eighth semester	
General Mathematics I		General Mathematics II		Differential Equations		Operations Research I		Project Management & Control		Facilities Planning		Production Planning		Industrial Feasibility Study	
Basic	units: 3	Basic	units: 3	Basic	units: 3	Main	units: 3	Main	units: 3	Main	units: 3	Specialized	units: 3	Specialized	units: 3
-		General Mathematics I		Along with Mathematics II		Mathematics II, Computer Programming		Operations Research I, Probability Theory and Applications		Motion and Time Study, Industrial Graphics I, Operations Research I		Production and Inventory Control I, Project Management & Control, Operations Research I		Cost Accounting, Facilities Planning, Engineering Economy, Manufacturing Technology II	
physics I & Laboratory		Physics II & Laboratory		Numerical Methods in Mathematics		Engineering Statistics		Motion and Time Study		Operations Research-II		Computer Information System		Management Information Systems	
Basic	units: 4	Basic	units: 4	Basic	units: 2	Main	units: 3	Main	units: 3	Main	units: 3	Specialized	units: 2	Specialized	units: 3
Along with Mathematics I		physics I		Computer Programming		Probability Theory and Applications		Manufacturing Technology II Engineering Statistics		Operations Research I		Project Management & Control, Production and Inventory Control, Computer Programming		Computer Programming	
General Economy I		Computer Programming		Probability Theory and Applications		Manufacturing Technology-II		Production and Inventory Control I		Statistical Quality Control		English for Industrial Engineering		elective	
Main	units: 3	Basic	units: 3	Main	units: 3	Main	units: 3	Main	units: 3	Main	units: 2	Specialized	units: 2		units: 3
-		General Mathematics I		Mathematics II		Manufacturing Technology-I, Strength of Materials		Operations Research I, Probability Theory and Applications		Engineering Statistics		General English		-	
Industrial Graphics I		General Economy II		Manufacturing Technology I		Cost Accounting		Fundamentals of Electrical Engineering-ab		Metrology and Quality Control Lab.		Training		elective	
Main	units: 2	Main	units: 2	Main	units: 2	Main	units: 3	Main	units: 1	Main	units: 2	Specialized	units: 2		units: 2
-		General Economy-I		Machine Tools Workshop-I		Spending at least 45 units		Fundamentals of Electrical Engineering		Manufacturing Technology I, Along with Statistical Quality Control		The third year onwards			
General English Language		Statics		Engineering Economy		Fundamentals of Electrical Engineering		Materials Science		Principles of Management and Organization Theory		elective		elective	
General	units: 3	Main	units: 2	Main	units: 3	Main	units: 3	Main	units: 3	Specialized	units: 2		units: 3		units: 3
-		Mathematics, physics I		Along with probability theory and its application		physics - II		-		Spending at least 60 units		-		-	
Islamic Thoughts I		Machine Tools Workshop-I		Strength of Materials		Sport -I		elective		elective		Persian Literature		elective	
General	units: 2	Main	units: 1	Main	units: 2	General	units: 1		units: 3		units: 3	General	units: 3		units: 3
				statics											
		Islamic Revolution of Iran		Welding General Workshop		Rules of Living		History of Islamic		Interpretation of Quran		Metal Casting Workshop			
		General	units: 2	Main	units: 1	General	units: 2	General	units: 2	General	units: 2	Main	units: 1		
		Sport -I		Islamic Thoughts II											
		General	units: 1	General	units: 1										
				Islamic Thoughts I											

Guide

Lesson's name	
Type	units
prerequisite	

list of elective courses			
Course Name	units	Course Name	units
Quality Management	2	Project Management	2
Payroll Payment systems	3	Financial Management	2
Maintenance Planning	3	Safety Systems Design and Analysis	3
Production and Inventory Control II	3	Queueing Theory	3
Scientific and Technical Concepts Presentation	2	Automation in Production	3
Entrepreneurship	2	Project	3

Type course	
General	21 units
Basic	26 units
Main	63 units
Specialized	17 units
Elective	14 units
Total	140 units
Edit Date	2013