

Engineering
Industrial Engineering

Study Program : Bachelor
Study Plan Type : Major
Academic Year : 2022

The requirements to obtain a Bachelor degree is :-

*** The minimum requirements to get a Bachelor degree in / Industrial Engineering / is to pass 160 credit hours, according to this study plan.**

*** The credit hours are distributed to get a Bachelor degree as follows :-**

Number of credit hours	
University Requirements	24.000
Compulsory	18.000
Elective	6.000
Faculty Requirements	33.000
Compulsory	33.000
Specialization Requirments	103.000
Compulsory	91.000
Elective	12.000
Pre-requist Courses	0.000
	0.000
Total :	160.000

University Requirements Credit Hours : 24
Requirement type : Compulsory Credit Hours :18

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2116011101	Arabic Communication Skills	3.000	3.000	0.000	121601099	online learning
2116021101	English Communication Skills	3.000	3.000	0.000	121602099	online learning
2214041117	Military Science	3.000	3.000			online learning
1714041118	National Education	3.000	3.000	0.000		online learning
2114041123	Leadership and Social Responsibility	2.000	2.000	0.000		online learning
2114041124	Entrepreneurship and Innovation	2.000	2.000	0.000		online learning
2114041125	Life Skills	2.000	2.000	0.000		online learning

University Requirements Credit Hours : 24
Requirement type : Elective Credit Hours :6

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1804001128	Cyber Hygiene	3.000	3.000	0.000	110108099	in class
2210031100	digital culture	3.000	3.000	0.000		
1916033201	Italian Language (2)	3.000	3.000	0.000	1716031101	in class
1916034101	Russian Language (1)	3.000	3.000	0.000		online learning
1916034102	Russian Language (2)	3.000	3.000	0.000		
1916034201	Japanese (2)	3.000	3.000	0.000	1716031102	in class
1916035101	Turkish Language (1)	3.000	3.000	0.000		in class
1916036101	Korean Language (1)	3.000	3.000	0.000		in class
1916036102	Korean Language(2)	3.000	3.000	0.000	1916036101	
1916037101	German Language (1)	3.000	3.000	0.000		in class
1916038101	Chinese Language (1)	3.000	3.000			online learning
1916039101	Polish Language (1)	3.000	3.000	0.000		in class
1714041101	University Life of Student	3.000	3.000			online learning
1714041102	Introduction to Psychcology	3.000	3.000			online learning
1714041104	Family and Child Education	3.000	3.000			online learning
1714041107	Citizenship and Human Rights	3.000	3.000			in class
1714041110	Islam Current Issues	3.000	3.000			in class
1714041111	Islamic Thought	3.000	3.000			online learning
1714041112	Jerusalem : Histroy and Civilization	3.000	3.000			in class
1714041113	Citizenship and Human Rights	3.000	3.000	0.000		online learning
1714041114	Histroy and Civilization of Jordan	3.000	3.000			online learning
1714041115	Sociology	3.000	3.000			in class
1714041116	Archaeology and Tourism	3.000	3.000			online learning
1714041120	Economic and Management Science	3.000	3.000			

University Requirements Credit Hours : 24
Requirement type : Elective Credit Hours :6

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1714041121	Law and Ordering of Our Life	3.000	3.000			online learning
1714041122	Principles of Sign Language	3.000	3.000			in class
1714041126	Humanistic Moral and Values Education	3.000	3.000			online learning
1714041127	Conflict Resolution and Accept Others	3.000	3.000			online learning
1714041128	Culutural Heritage in Jordan	3.000	3.000			
1914041130	Integrity Transperancy and anti - Corruption	3.000	3.000	0.000		online learning
1714041193	Palestinian Cause	3.000	3.000			in class
1714041194	Arabic Language and Current Issues	3.000	3.000			online learning
1814041195	Disability and Healthy Community	3.000	3.000			online learning
1814041197	Selected Topics in National Trends	3.000	3.000			
1814041198	Education for Sustainable Development	3.000	3.000			online learning
1814041199	Adjustment and Mental Health	3.000	3.000			online learning
1814041200	Introduction to Education	3.000	3.000			online learning
1914042111	Media Education	3.000	3.000	0.000		online learning
2101081139	Physical Culture	3.000	3.000	0.000		online learning
2201081140	Development and Environment	3.000	3.000	0.000		online learning
0110108104	Energy and its Sources	3.000	3.000	0.000		online learning
0110108113	Biotechnology and Society	3.000	3.000	0.000		online learning
0110108114	Automobile Essentials	3.000	3.000	0.000		
0110108115	Computer Ethics	3.000	3.000	0.000		blended learning
0110108130	Health and Nutrients	3.000	3.000	0.000		online learning
0110108131	Health Education and First Aid	3.000	3.000	0.000		online learning
0110108132	Sport and Health	3.000	3.000	0.000		online learning

University Requirements Credit Hours : 24
Requirement type : Elective Credit Hours :6

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0140108134	Ethics in Natural Science	3.000	3.000	0.000		online learning
0170108135	Reproductive Health	3.000	3.000	0.000		online learning
0140108166	Pharmaceutical Edification	3.000	3.000	0.000		
0121601105	Applied Arabic Language	3.000	3.000			in class
0121602102	Applied English Language	3.000	3.000	0.000		blended learning
0121602103	Technical Translation	3.000	3.000	0.000		blended learning
0141603101	Italian Language	3.000	3.000			in class
0151603102	Japanese Language (Level 1)	3.000	3.000	0.000		in class
0121603201	Spanish Language (1)	3.000	3.000			blended learning

Faculty Requirements Credit Hours : 33
Requirement type : Compulsory Credit Hours :33

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0110101102	Calculus (2)	3.000	3.000	0.000	110108101	blended learning
0110101201	Calculus (3)	3.000	3.000	0.000	110101102	in class
0110101203	Ordinary Differential Equations (1)	3.000	3.000	0.000	110101102	in class
0110102101	General Physics (1)	3.000	3.000	0.000		
0110102102	General Physics (2)	3.000	3.000	0.000	1701081136	in class
0110102103	General Physics Laboratory (1)	1.000	0.000	3.000	1701081136 synchronous	in class
0110103107	Basics of General Chemistry	3.000	3.000	0.000		
0110103108	Basics of General Chemistry Laboratory	1.000	0.000	3.000	110103107 synchronous OR 1701081137 synchronous	in class
0110108101	Calculus (1)	3.000	3.000	0.000		online learning
0110400101	Engineering Workshop	1.000	0.500	2.000		blended learning
0110400102	Computer Programming	3.000	3.000	0.000	110108099	in class
0110400201	Manual Engineering Drawing	2.000	1.000	3.000		in class
0110400202	Computer Aided Engineering Drawing	1.000	0.000	3.000	110400201	in class
0110400203	Ethics and Communication Skills	3.000	3.000	0.000	111405110 OR 121602101	blended learning

Specialization Requirments Credit Hours : 103
Requirement type : Compulsory Credit Hours :91

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1704001303	Numerical Analysis	3.000	3.000	0.000	(110101203) AND (110400102 OR 110108112)	in class
2104031212	Mechanics of materials	3.000	3.000	0.000	110102101	in class
2104031302	Engineering Economy	2.000	2.000	0.000	110101102	online learning
2104031344	Applied Statistics Engineering	3.000	3.000	0.000	110403242	blended learning
2104031347	Engineering Design of experiments	3.000	3.000	0.000	2104031344	in class
2104031352	Material Science	3.000	3.000	0.000	110103107	in class
2104031353	Material Science Lab	1.000	0.000	3.000	2104031352	in class
2004031400	Practical Training	3.000	0.000	0.000	110400203	in class
2104031427	Design Industrial Systems and machine elements	3.000	3.000	0.000	2104031212	in class
2104031428	Meteorology	3.000	3.000	0.000		blended learning
2104031431	Supply chain management and logistic services	3.000	3.000	0.000	110403341	in class
1704031436	Production Planning & Control	3.000	3.000	0.000	110403341	in class
2104031442	Quality control	3.000	3.000	0.000	2104031344	in class
2104031464	Industrial automation and control	3.000	3.000	0.000	110101203	blended learning
2104031509	Statistics and Operations Research LAB	1.000	0.000	3.000	2104031347 AND 110403543	
1704031511	Facilities Planning	3.000	3.000	0.000	110403436	in class
2104031536	Work Measurement and Analysis	3.000	3.000	0.000	110403531 AND 110403242	in class
2104031538	Work Measurement Lab	1.000	0.000	3.000	2104031536	
2104031541	Simulation	2.000	2.000	0.000	110403543	
2104031542	Simulation Lab	1.000	0.000	3.000	2104031541 synchronous	
2104031544	Decision making analysis	3.000	3.000	0.000	110403543	in class
2104031561	CAD/CAM	2.000	2.000	0.000	110403324	in class
2104031562	CAD/ CAM Lab	1.000	0.000	3.000	2104031561 synchronous	in class

Specialization Requirments Credit Hours : 103
Requirement type : Compulsory Credit Hours :91

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2104031565	six sigma and Lean Manufacturing	3.000	3.000	0.000	2104031442	in class
1704031571	Graduation Project (1)	1.000	0.000	3.000	(110403324 AND 110403436 AND 110403442)	in class
2104031577	Reliability Engineering	3.000	3.000	0.000	2104031344	in class
0110102104	General Physics Laboratory (2)	1.000	0.000	3.000	110102102 synchronous AND 110102103	in class
0110403242	Statistics and Probabilities	3.000	3.000		110101102	in class
0110403324	Manufacturing Processes (1)	3.000	3.000		(110400101) AND (110402212 OR 2104031212)	in class
0110403325	Manufacturing Processes Lab.	1.000	0.000	3.000	110403324	in class
0110403341	Opreation Research (1)	3.000	3.000		110101201	in class
0110403429	Metrology Lab .	1.000	0.000	3.000	110403428 synchronous	in class
0110403465	Industrial Automation Lab.	1.000	0.000	3.000	110403464 synchronous	in class
0110403531	Human Factors Engineering	3.000	3.000		110403242	online learning
0110403532	Human Factors Engineering Lab.	1.000	0.000	3.000	110403531	in class
0110403533	Safety Engineering	3.000	3.000			in class
0110403537	Project Management	3.000	3.000		110403341 AND 110403242	in class
0110403543	Opreation Research (2)	3.000	3.000		110403341 AND 110403242	in class
0110403572	Graduation Project (2)	2.000		6.000	110403571	in class

Specialization Requirments Credit Hours : 103
Requirement type : Elective Credit Hours :12

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2104031548	Product Design and Development	3.000	3.000	0.000	110403324	in class
2104031551	Creativity and Leadership	3.000	3.000	0.000	2104031344	
2104031553	Management information Systems	3.000	3.000	0.000	110400102	
2104031554	Nanotechnology and its Applications	3.000	3.000	0.000	2104031352	
2104031557	Marketing Engineering	3.000	3.000	0.000	2104031302	
2104031558	Maintenance Management	3.000	3.000	0.000	2104031344	
2104031559	Strategic Planning	3.000	3.000	0.000	2104031544	
2104031560	Procurement Engineering	3.000	3.000	0.000	110403324	in class
2104031574	Quality Management	3.000	3.000	0.000	2104031442	in class
2104031582	Industrial Engineering in Healthcare	3.000	3.000	0.000	2104031344	
2104031583	Polymer Engineering	3.000	3.000	0.000	2104031352 AND 110403324	
0110403331	Cost Analysis	3.000	3.000	0.000	110101102	in class
0110403426	Manufacturing Processes (2)	3.000	3.000		110403324	in class
0110403581	Special Topics in Industrial Engineering	3.000	3.000			blended learning

Courses - Not Allowed To Study Credit Hours : 0
Requirement type : Credit Hours :0

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0110108112	Computer Programming	3.000	3.000	0.000	(1001103 AND 1001104) OR (110108099 OR 1011100)	blended learning

Pre-Requist Courses Credit Hours : 0
Requirement type : Credit Hours :0

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0001001096	Computer Skills Test	0.000	0.000	0.000		in class
0110108099	Computer Skills/ Prerequisite	3.000	3.000	0.000	1001096	online learning
0002110096	Arabic Placement Test	0.000	0.000	0.000		in class
0002120096	English Placement Test	0.000	0.000	0.000		in class
0111405098	Arabic Language / Pre-requisite	3.000	3.000	0.000	2110096	
0111405099	English Language/ pre-requisite	3.000	3.000	0.000	2120096	

free study materials are (3) credit hours, The student chooses it from any of the courses offered by the university departments.