

Industrial Engineering schedule Plan

1 st Year Semester (1), Level(1)		Cr. Hr. (L, T, Lab)	Requisite
ENG 101	English Essay Writing	3 (3+0+0)	ORN 05R
MTH 104	Calculus I	3 (3+2+0)	None
PHL 101	Critical Thinking	3 (3+1+0)	None
PHY 103	Physics - I (Mechanics)	4 (3+1+2)	ORN 04R
MGT 102	Introduction to Management	2 (2+1+0)	None
ARB 102	Communication Skills in Arabic	2 (2+0+0)	None
Total		17	

1 st Year Semester (2), Level (2)		Cr. Hr. (L, T, Lab)	Requisite
MTH 105	Discrete Mathematics	4 (3+1+0)	None
MTH 211	Calculus II	4 (3+1+2)	MTH 104
PHY 203	Physics - II (EM+Electronics)	4 (3+1+2)	ORN 04R
CHM 101	General Chemistry	4 (3+1+2)	ORN 04R
Total		16	

2 nd Year Semester (1), Level (3)		Cr. Hr. (L, T, Lab)	Requisite
MTH 301	Linear Algebra	3 (3+2+0)	
STT 105	Probability and Statistics for Engineers	3 (3+2+0)	None
ENR 201	Engineering Drawing and CAD	3 (2+1+3)	
ENR 203	Statics and Strength of Materials	3 (3+2+0)	MTH 104, PHY 103
MEG 209	Fundamentals of Materials Engineering	2 (2+1+3)	PHY 103, CHM 99
ISL 101	Foundation of Islamic Culture	2 (2+0+0)	None
Total		17	

2 nd Year Semester (2), Level (4)		Cr. Hr. (L, T, Lab)	Requisite
CIS 101	Programming Fundamentals - 1	4 (3+0+2)	
MTH 302	Differential Equations	4 (3+1+2)	MTH 211
IEG 201	Introduction to Engineering Design	2 (1+1+3)	
IEG 311	Operation Management-1	3 (3+1+0)	STT 105
IEG 341	Manufacturing Processes-1	3 (3+2+1)	MEG 211
Total		16	

3 rd Year Semester (1), Level (5)		Cr. Hr. (L, T, Lab)	Requisite
IEG 301	Design of Experiments	3 (3+1+1)	STT 106
IEG 302	Engineering Reliability	2 (2+1+0)	STT 105
IEG 303	Quality Control	3 (3+1+1)	STT 105
IEG 312	Operation Management-2	3 (3+1+0)	IEG 311
IEG 321	Operation Research-1	3 (3+2+0)	MTH 301, CIS 101
IEG 342	Manufacturing Processes-2	3 (3+2+1)	IEG 341
Total		17	

3 rd Year Semester (2), Level (6)		Cr. Hr. (L, T, Lab)	Requisite
IEG 345	Industrial Control Systems and Automation	3 (2+1+2)	CIS 101, PHY 203
IEG 322	Operation Research-2	3 (3+2+0)	IEG 321
IEG 332	Work Design and Analysis	3 (2+1+2)	IEG 342
IEG 323	Systems Simulation	3 (2+1+2)	Co Pre IEG 322
IEG 351	Manufacturing Systems	3 (3+2+1)	IEG 302, IEG 312
ARB 202	Writing Skills in Arabic	2 (2+0+0)	ARB 103
Total		17	

<i>4th Year Semester (1), Level (7)</i>		<i>Cr. Hr. (L, T, Lab)</i>	<i>Requisite</i>
ISL 201	Foundation of Islamic Economy	2 (2+0+0)	
IEG 404	Engineering Economy and Costing	3 (3+1+0)	
IEG 431	Ergonomics	3 (2+1+2)	IEG 301
IEG 450	Industrial Facility Design and Material Handling	3 (3+2+1)	IEG 322, IEG 332
IEG xxx	Elective Course	3	
IEG 490	Graduation Design Project-1	2 (1+1+2)	Pass Successfully 107 Cr.H
Total		16	

<i>4th Year Semester (2), Level (8)</i>		<i>Cr. Hr. (L, T, Lab)</i>	<i>Requisite</i>
ISL 301	Work Ethics in Islam	2 (2+0+0)	ISL 201
IEG 400	Product Development and Innovation	3 (2+1+3)	IEG 201, IEG 303
IEG 411	Project Management	3 (3+2+0)	IEG 312
IEG xxx	Elective Course	3	
IEG 491	Graduation Design Project-2	2	IEG 490
Total		13	

CO-op (SUMMER AND SEMESTER)

IEG 497	Co-op practical training	6	Pass Successfully 124 Cr.H
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