

## Study Plan for Mechanical Engineering (Ed. 7)

Level One				
Course Code	Title	Credit	Hours	Pre-requisite
MATH 1050	Differential Calculus	3	(3,2,0)	
ENGL 1210	Reading Skills	3	(3,3,0)	
ENGL 1220	Writing Skills	3	(3,3,0)	
IC101	Introduction to Islamic Culture	2	(2,0,0)	
PHYS1010	General Physics (I)	4	(3,1,1)	
<b>Total</b>		<b>15</b>	<b>(14,9,1)</b>	

Level Two				
Course Code	Title	Credit	Hours	Pre-requisite
ENGL1230	Conversation and listening skills	3	(3,3,0)	
ARAB101	Language Skills	2	(2,0,0)	
MATH1060	Integral Calculus	3	(3,2,0)	MATH 1050
CT1400	Computer Skills	3	(2,0,1)	
MC1400	Commincations Skills	2	(2,0,0)	
ENGL1604	English for Technical Purposes	3	(3,3,0)	
<b>Total</b>		<b>16</b>	<b>(15,8,1)</b>	

Level Three				
Course Code	Title	Credit	Hours	Pre-requisite
CHEM 1010	General Chemistry	4	(3,1,1)	
PHYS 1040	General Physics (II)	4	(3,1,1)	PHYS 1010
GEU 1011	Introduction to Engineering	2	(2,1,0)	
MATH 1070	Algebra & Analytic Geometry	3	(3,1,0)	MATH 1050
GEU 1090	Computer Programming in Engineering	3	(1,0,2)	
ISL 102	Islamic and Building of Society	2	(2,0,0)	
<b>Total</b>		<b>18</b>	<b>(14,4,4)</b>	

Level Four				
Course Code	Title	Credit	Hours	Pre-requisite
GEU 3201	Engineering Statistics	3	(3,1,0)	MATH 1060
ME 2410	Mechanical Engineering Drawing (1)	3	(2,1,1)	
MATH2030	Differential and Integral Calculus	3	(3,1,0)	MATH 1060 MATH 1070
GEU 2610	Engineering Professional Communications	2	(1,0,1)	ENGL 1210
GEU 2010	Statics	3	(3,1,0)	PHYS 1040 MATH 1060
ME 2520	Materials Science & Engineering	4	(3,1,1)	CHEM1010 PHYS1040
<b>Total</b>		<b>18</b>	<b>(15,5,3)</b>	

Level Five				
Course Code	Title	Credit	Hours	Pre-requisite
ARAB 103	Arabic Editing	2	(2,0,0)	
MATH 2040	Differential Equations	3	(3,1,0)	MATH 2030
GEU 2020	Dynamics	3	(3,1,0)	GEU 2010
ME 2420	Mechanical Engineering Drawing (2)	2	(1,1,1)	ME 2410
ME 3510	Mechanics of Materials	3	(3,1,0)	GEU 2010 ME 2520
ME 3710	Thermodynamic (1)	3	(3,1,0)	PHYS 1040
EE 3090	Circuits and Electrical Machines	2	(2,1,0)	MATH 1070 PHYS 1040
<b>Total</b>		<b>18</b>	<b>(17,6,1)</b>	

Level Six				
Course Code	Title	Credit	Hours	Pre-requisite
ME 4620	System Dynamics	3	(3,1,0)	2040
ME 3310	Manufacturing Processes (1)	3	(2,1,1)	ME 3510
ME 3410	Mechanics of Machinery	3	(2,1,1)	GEU 2020
ME 3730	Thermodynamic (2)	4	(3,1,1)	ME 3710
ME 3810	Fluid Mechanics	4	(4,1,0)	GEU 2020 ME 3710
<b>Total</b>		17	(14,5,3)	

Level Seven				
Course Code	Title	Credit	Hours	Pre-requisite
GEU 3010	Numerical Methods for Engineering	3	(2,1,1)	MATH 2040
ME 3750	Heat Transfer	4	(3,1,1)	ME 3810
ME 3420	Mechanical Design (1)	3	(3,1,0)	ME 2420 ME 3410
ME 4310	Manufacturing Processes (2)	3	(2,1,1)	ME 3310
ME 4610	Measuring and Instrumentation	3	(2,1,1)	EE 3090
ISL 103	Economic System in Islamic	2	(2,0,0)	
<b>Total</b>		18	(14,5,4)	

Level Eight				
Course Code	Title	Credit	Hours	Pre-requisite
GEU 4010	Engineering Economy	2	(2,1,0)	
ME 4710	Refrigeration and Air Conditioning	2	(2,1,0)	ME 3730 ME 3750
ME 4630	Mechatronics	3	(2,1,1)	ME 4610
ME 4720	Power Plants	2	(2,1,0)	ME 3730 ME 3750
ME 3430	Mechanical Design (2)	3	(2,1,1)	ME 3420
ME 4640	Automatic Control	3	(2,1,1)	ME 4620
ISL 104	Principles of Political System in Islam	2	(2,0,0)	
<b>Total</b>		17	(14,6,3)	

Level Nine				
Course Code	Title	Credit	Hours	Pre-requisite
ME 4730	Desalination	2	(2,1,0)	ME 3750
ME 4410	FE in Mechanical Design	2	(1,1,1)	GEU 3010 ME 3430
****	Elective Course	3	(3,1,0)	
****	Elective Course	3	(3,1,0)	
ME 4980	Senior Design Project (1)	3	(1,0,2)	132 C.H.
ME 4930	Seminars in Mechanical Engineering	1	(0,0,1)	
ME 9990	Practical Training	1		112 C.H.
<b>Total</b>		15	(10,4,4)	

Level Ten				
Course Code	Title	Credit	Hours	Pre-requisite
GEU 4020	Engineering Project Management	2	(2,1,0)	GEU 4010
****	Elective Course	3	(3,1,0)	
****	Elective Course	3	(3,1,0)	
****	Elective Course	3	(3,1,0)	
ME 4990	Senior Design Project (2)	3	(1,0,2)	ME 4980
<b>Total</b>		14	(12,4,2)	