

(MSc. in Engineering Management)

الخطة الدراسية لبرنامج (ماجستير العلوم في الادارة الهندسية)

First path (Coursework and Thesis)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	MEM60101	Statistical Analysis of Engineers	Required	-	2
	MEM60102	Management for Engineers	Required	-	3
	MEM60103	Advanced Engineering Economy	Required	-	3
	MEM60104	Research Methods and M. Sc. Seminar	Required	-	1
Level 2	MEM60205	Applied Engineering Optimization	Required	-	3
	-	Elective Course 1 (Group A)	Elective	-	3
	-	Elective Course 2 (Group A)	Elective	-	3
Level 3	MEM60306	Engineering Project Management	Required	MEM60102	3
	MEM60307	Project Cost Estimation	Required		3
	-	Elective Course 3 (Group B)	Elective	-	3
Level 4	THES60002	Thesis	Required	Success in all courses of the first and second semesters	6



Second path (Coursework and Project)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	MEM60101	Statistical Analysis of Engineers	Required	-	2
	MEM60102	Management for Engineers	Required	-	3
	MEM60103	Advanced Engineering Economy	Required	-	3
	MEM60104	Research Methods and M. Sc. Seminar	Required	-	1
Level 2	MEM60205	Applied Engineering Optimization	Required	-	3
	-	Elective Course 1 (Group A)	Elective	-	3
	-	Elective Course 2 (Group A)	Elective	-	3
Level 3	MEM60306	Engineering Project Management	Required	MEM60102	3
	MEM60307	Project Cost Estimation	Required		3
	-	Elective Course 3 (Group B)	Elective	-	3
Level 4	MEM60408	Project Planning and Control	Required		3
	MEM60409	Risk Management and Innovation	Required		3
	PROJ60002	Research Project	Required	Success in Level 1&2&3 (27 hours)	3



تابع ... الخطة الدراسية لبرنامج (ماجستير العلوم في الادارة الهندسية)

List of Elective Courses:

No.	Course Code	Course Name	Prerequisite(s)	Credit hours
Group A				
1	MEM60212	Safety Engineering Management	None	3
2	MEM60213	Engineering Design, Methodology & Applications	None	3
3	MEM60214	Product Innovation and Design Management	None	3
4	MEM60215	Artificial Intelligence: Reasoning and Decision-making	None	3
Group B				
1	MEM60316	Decision Support System	None	3
2	MEM60317	Principal of Supply Chain Management	None	3
3	MEM60318	Infrastructure Project Finance and Management	None	3
4	MEM60319	Strategic Management	None	3

