

Master of Science in Engineering Management (Study Plan)

Option 1: MEM with Courses and Project

The study plan for the MEM with Courses and Project option is outlined in Table 3. Elective Courses are selected based on the following criteria:

1. At least three courses should be taken from Group 1 Elective Courses (Table 4)
2. Subject to supervisor and program coordinator's approval, only one course may be taken from Group 2 Elective Courses (Table 6)
3. Subject to academic advisor and program coordinator's approval, only one course may be taken from the following courses
 - a. Graduate Courses offered by the College of Business Administration
 - b. Graduate Courses offered by other departments in the College of Engineering
 - c. Courses offered by the PhD in Engineering Management program

Table 3: Study Plan for MEM with Courses and Project

Total credits	Credits	Courses/Project	Course Code	Year
18	3	Operations Management	0405-511	1
	3	Engineering Statistical Analysis	0405-522	
	3	Management for Engineers	0405-560	
	3	Engineering Project Management	0405-561	
	3	Elective Course 1		
	3	Elective Course 2		
15	3	Elective Course 3		2
	3	Elective Course 4		
	3	Elective Course 5		
	0	Seminar	0405-591	
	6	M.Sc. Project	0405-595	
33	Total Credit			

It is worth noting that the M.Sc. Project (0405-595) should be registered over two semesters with a load of 3 credit hours for the first semester and 3 credit hours for the second semester. A grade of Pass or Fail is given upon the presentation of the project at the end of the second semester. The examination jury can decide that the student has to add one (or more) semester to complete the work. In this case the student has to register the course (0405-595) with zero credit hours. The grade of the M.Sc. Project will not be included in the calculation of the student CGPA. The procedure is similar to that of the M.Sc. Thesis registration and defense available in the M.Sc. Executive Regulations on the College of Graduate Studies website.

Table 4: MEM Group 1 Elective Courses

Group 1 Elective Courses			
Credit Hours	Course Name	Course Code	No.
3	Applied Engineering Optimization	0405-512	1
3	Engineering Asset Management	0405-532	2
3	Safety Engineering Management	0405-541	3
3	Economic Analysis of Engineering Systems	0405-562	4
3	Quality Engineering	0405-563	5
3	Lean Six Sigma Systems	0405-564	6
3	Accounting and Finance for Engineers	0405-566	7
3	Supply Chain Management	0405-567	8
3	Special Topics in Engineering Management	0405-581	9

Courses and Project

Table 5: Study Plan for MEM – Infrastructure and Construction Management

Total credits	Credits	Courses/Project	Course Code	Year
18	3	Operations Management	0405-511	1

	3	Engineering Statistical Analysis	0405-522	
	3	Management for Engineers	0405-560	
	3	Engineering Project Management	0405-561	
	3	Elective Course 1		
	3	Elective Course 2		
	3	Elective Course 3		
	3	Elective Course 4		
15	3	Elective Course 5		2
	0	Seminar	0405-591	
	6	M.Sc. Project	0405-595	
33	Total Credit			

Option 2: MEM with Courses and Project - Infrastructure and Construction Management

The study plan for the MEM with Courses and Project option with concentration in infrastructure and construction management is outlined in Table 5. Elective Courses are selected based on the following criteria:

1. At least three courses should be taken from Group 2 Elective Courses (Table 6)
2. At least one course should be taken from Group 1 Elective Courses (Table 4)
3. Subject to academic advisor and program coordinator approval, only one course may be taken from the following courses
 - a. Graduate Courses offered by the College of Business Administration
 - b. Graduate Courses offered by other departments in the College of Engineering
 - c. Courses offered by the PhD in Engineering Management program

The same rules apply on the M.Sc. Project (0405-595) as in Option 1 as described above.

Table 6: MEM Group 2 Elective Courses

Group 2 Elective Courses			
Credit Hours	Course Name	Course Code	No.
	Legal Issues	0405-501	1
3	Information Technology in Construction Management	0405-552	2
3	Project Planning and Control	0405-572	3
3	Project Cost Estimation	0405-573	4
3	Infrastructure Rehabilitation and Management System	0405-575	5
3	Construction Equipment Management	0405-576	6
3	Special Topics in Construction Management	0405-582	7

Option 3: MEM with Courses and Thesis option

The study plan for the MEM with Thesis and Courses is outlined in Table 7. Elective Courses are selected based on the following criteria:

1. At least one course should be taken from Group 1 Elective Courses (Table 4)
2. Subject to academic advisor and program coordinator approval only one course may be taken from the following courses
 - a. Group 2 Elective Courses (Table 6)
 - b. Graduate Courses offered by the College of Business Administration
 - c. Graduate Courses offered by other departments in the College of Engineering
 - d. Courses offered by the PhD in Engineering Management program

It is worth noting that the M.Sc. Thesis (0405-599) should be registered over at least two semesters with a load of 3 credit hours for the first semester and 12 credit hours for the following semester(s).

In order for the student to be able to register in the M.Sc. Thesis (0405-599), a M.Sc. proposal should be submitted (following the college of graduate studies guidelines) and presented in front of an academic committee formed by a decision of the department council. If this committee approves the proposal, then the student can register the first 3-credit hours of the M.Sc. Thesis (0405-599), during the same or the following semester.

Table 7: Study Plan for MEM with Courses and Thesis

Total credits	Credits	Courses/Project	Course Code	Year
18	3	Operations Management	0405-511	1
	3	Engineering Statistical Analysis	0405-522	
	3	Management for Engineers	0405-560	
	3	Engineering Project Management	0405-561	
	3	Elective Course 1		
	3	Elective Course 2		
15	0	Seminar	0405-591	2
	15	M.Sc. Thesis	0405-599	
33	Total Credit			

A grade of Pass or Fail can be given upon the defense of the Thesis. The grade of the M.Sc. Thesis will not be included in the calculation of the student CGPA. The examination jury will follow the procedure specified in the M.Sc. Thesis registration and defense sections of the M.Sc. Executive Regulations available on the College of Graduate Studies website.

University of Sharjah Graduate Studies Bylaws and Master's Executive Regulations

For more detailed information regarding the general admission requirements for the Master's programs at University of Sharjah, as well as the graduation requirements, academic load, maximum and minimum duration of the Master's studies, conditional admission, academic probation, examination and grades system, as well as registration of thesis (for the MEM program with Courses and Thesis option), you can consult the University of Sharjah Graduate Studies Bylaws and Master's Executive Regulations available in PDF format on the following link (College of Graduate Studies website):

<https://www.sharjah.ac.ae/en/academics/colleges/gsr/depts/gradStudies/bylaws/Pages/default.aspx>