

Doctor of Philosophy in Engineering Management (Study Plan)

Effective September 2022

The following table shows all the requirements to complete the Doctor of Philosophy in Engineering Management:

Requirements	Number of courses	Proposed
		Credit Hours
Compulsory Courses	6	18
Elective Courses	3	9
Seminar	1	0
Qualification Exam	1	0
PhD Proposal	1	6
PhD Thesis	1	21
Total Credit Hours		54

Compulsory Requirements:

Course Code	Course Title	Credit Hours
0405-701	Advanced Engineering Management Research Methodologies	3
0405-712	Engineering Modeling and Optimization	3
0405-724	Engineering Design of Experiments	3
0405-760	Leadership and Innovation Management	3
0405-762	Total Quality Management	3
0405-723	Decision Making and Analysis	3
0405-791	PhD Seminar	0
0405-709	Qualifying Examination	0
0405-792	PhD Research Proposal	6
0405-799	PhD Thesis	21
Total		45

Elective Courses: Only **9 credits** are required out of the following group of courses:

Course Code	Course Title	Credit Hours
0405-725	Data analytics	3
0405-731	Logistics and Supply Chain Management	3
0405-763	Advanced Engineering Project Management	3
0405-765	Management of Technology	3
0405-781	Special Topics in Engineering Management	3
0405-782	Independent Studies in Engineering Management	3

Advisory Time Study Plan

First Year							
First Semester				Second Semester			
Course #	Course Title	Type	Cr.Hr	Course #	Course Title	Type	Cr.Hr
0405701	Engineering Research Methodology	Core	3	0405762	Total Quality Management	Core	3
0405760	Leadership and Innovation Management	Core	3	0405723	Decision Making and Analysis	Core	3
0405xxx	Elective 1	Elective	3	0405xxx	Elective 2	Elective	3
				0405791	PhD Seminar		0
Total credit hours			9	Total credit hours			9

Second Year							
First Semester				Second Semester			
Course #	Course Title	Type	Cr.Hr	Course #	Course Title	Type	Cr.Hr
0405712	Engineering Modeling and Optimization	Core	3	0405709	Qualification Exam	Core	0
0405724	Engineering Design of Experiments	Core	3				
0405xxx	Elective 3	Elective	3				
Total credit hours			9	Total credit hours			0

Third Year							
First Semester				Second Semester			
Course #	Course Title	Type	Cr.Hr	Course #	Course Title	Type	Cr.Hr
0405792	Research Proposal	Core	6	0405799	Research Thesis	Core	9
Total credit hours			6	Total credit hours			9

Fourth to Fifth Year							
First Semester				Last Semester			
Course #	Course Title	Type	Cr.Hr	Course #	Course Title	Type	Cr.Hr
0405799	Research Thesis	Core	9	0405799	Research Thesis	Core	3
Total credit hours			9	Thesis Defense			3
Total credit hours			9	Total credit hours			3