



Zarqa University

Study Plan for Master Degree in Mathematics, Comprehensive Exam Track

The study plan consists of (33) credit hours as follows:

I. Compulsory Courses: (24) credit hours as follows:

Course no.	Course title	Cr. Hrs.	Pre-requisite
0301751	Methods of Applied Mathematics 1	3	
0301752	Real Analysis (Measure Theory and Integration)	3	
0301753	Modern Algebra 1	3	
0301754	General Topology 1	3	
0301756	Theory of Ordinary Differential Equations	3	
0301757	Partial Differential Equations	3	
0301759	Complex Analysis	3	
0301766	Advanced Matrix Theory	3	

II. Elective courses: (9) credit hours to be chosen from one of the following Subjects:

Course no.	Course title	Cr.Hrs.	Pre-requisite
0301755	Mathematical Statistics	3	
0301758	Functional Analysis	3	
0301761	Probability Theory	3	
0301762	Nonparametric Statistics	3	
0301763	Linear Statistics Models	3	
0301764	Stochastic Processes	3	
0301765	Modern Algebra 2	3	
0301767	Analytic Number Theory	3	
0301768	Topology 2	3	
0301769	Algebraic Topology	3	
0301770	Methods of Applied Mathematics 2	3	
0301771	Dynamical Systems	3	
0301772	Graph Theory	3	
0301773	Selected Topics in pure Mathematics	3	
0301774	Selected Topics in Applied Mathematics	3	
0301775	Selected Topics in Statistics	3	

III. Thesis:

Course no.	Course title	Cr.Hrs.	Pre-requisite
0301798	Comprehensive Exam	0	

