

Study Plan of the Program of Bachelor of Mathematics

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030119	English Language (1)	3	6	
18040102	Differential & Integral (1)	4	4	
18010102	General Biology	4	5	
11010101	Islamic Culture (1)	2	2	
11020204	Health Culture	1	1	
18091501	Arabic Editing	2	2	
First Year: Second Term				
11030219	English Language (2)	3	6	11030119
18030102	General Physics (1)	4	5	--
18060102	General Chemistry (1)	4	5	--
11020107	Quran	2	2	--
11010111	Islamic Culture (2)	2	2	--
Second Year: First Term				
18041237	Principles of statistics and probability	3	4	--
18041231	Vectors and Mechanics	3	4	--
18041233	Foundations of mathematics	3	4	--
18041239	Differential & Integral (2)	3	4	18040102
18041235	Analytic geometry	3	4	--
18041241	Specialized English Language	2	2	--
11010113	Voluntary service (1)	--	--	--
Second Year: Second Term				
18041216	Real analysis (1)	3	4	18040102
18041212	Introduction to mathematical statistics	3	4	18041237
18051220	Computer Skills	2	3	--
18041218	Differential & Integral (3)	3	4	18041239
18041236	Introduction to Differential Equations	3	4	18041239
18041210	Linear Algebra	3	4	--
11010123	Voluntary service (2)	--	--	--

Third Year: First Term				
18041361	Numerical analysis	3	3	18041236
18041363	Abstract algebra (1)	3	3	18041233
18041365	Introduction to Partial Differential Equations	3	3	18041236
18041309	Vector Analysis	3	3	18041218
18041367	Mathematical applications in Computers	3	4	18051220
18041369	Statistical Analysis	3	3	18041213
Third Year: Second Term				
18041409	Real Analysis (2)	3	3	18041216
18041316	Continuous Mechanics	3	3	18041309
18041360	Complex Analysis	3	3	18041216
18041318	Mathematical Methods	3	3	18041365
18041444	Numerical Theory	3	3	18041233
11010112	Essay and Research Writing	2	2	--
Fourth Year: First Term				
18041423	Analytical mechanics	3	3	18041231
18041471	Abstract Algebra (2)	3	3	18041363
18041473	Introduction to Topology	3	3	18041233
18041314	Differential Geometry	3	3	18041210
18041475	Mathematical Modeling	3	3	18041233
	Elective Course (1).	3	3	--
Fourth Year: Second Term				
18041472	Quantum Mechanics	3	3	18041423
18041422	Operations Research	3	3	18041212
18041426	Functional Analysis	3	3	18041409
18041474	Research Project	3	3	Passing 100 CrH
	Elective Course (2)	3	3	--
Electives				
18041449	Sets Theory	3	3	18041233
18041475	Discrete Mathematics	3	3	18041233
18041440	Fuzzy mathematics	3	3	18041233
18041446	Special Relativity	3	3	18041316

18041476	Statistical inference	3	3	18041212
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