

Study Plan of the Program of Mathematics

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030119	English Language (1)	3	6	
11010101	Islamic culture (1)	2	2	
11020204	Health Culture	1	1	
19011101	General Biology	4	5	
19041101	Calculus(1)	4	4	
19091213	Arabic editing	2	2	
First Year: Second Term				
11030219	English Language (2)	3	6	
11010111	Islamic culture (2)	2	2	
11020107	Holy Quran	2	2	
19031104	General Physics (1)	5	5	
19061201	General Chemistry(1)	5	5	
Second Year: First Term				
19041217	Principles of Statistics and Probability	3	4	
19041219	Vectors and mechanics	3	4	
19041221	Basic Mathematics	3	4	
19041223	Calculus(2)	3	4	19041101
19041225	Analytical Geometry	3	4	
19041111	Specialized English Language	2	2	
11010113	Voluntary service (1)	0	0	
Second Year: Second Term				
19041216	Real Analysis(1)	3	4	19041223
19041223	Introduction to Mathematical Statistics	3	4	19041217
19051220	computer skills	2	3	--
19041220	Calculus(3)	3	4	19041223
19041222	Ordinary differential equations	3	4	19041223
19041224	linear algebra	3	4	--
11010123	Voluntary service (2)	0		

Third Year: First Term					
19041313	Numerical analysis	3	3	19041222	
19041315	abstract algebra(1)	3	3	19041221	
19041321	Partial differential equations	3	3	19041222	
19041309	Vector analysis	3	3	19041220	
19051321	Mathematical applications in Computers	3	4	19051220	
19041323	Statistical analysis	3	۳	19041218	
Third Year: Second Term					
19041310	Real Analysis(2)	3	3	19041216	
19041318	continuum mechanics	3	3	19041309	
19041316	Complex analysis	3	3	19041220	
19041412	Mathematical methods	3	3	19041321	
19041324	Numbers theory	3	3	19041221	
11010112	Essay and Research Writing	2	2	--	
Fourth Year: First Term					
19041421	Analytical Mechanics	3	3	19041219	
19041439	abstract algebra(2)	3	3	19041315	
19041441	Introduction to the topology	3	3	19041221	
19041425	Differential geometry	3	3	19041224	
19041427	Mathematical modeling	3	3	19041222	
	Elective (1) for mathematics	3	3		
Fourth Year: Second Term					
19041420	Quantum mechanics	3	3	19041221	
19041422	Operations Research	3	3	19041218	
19041426	Functional analysis	3	3	19041310	
19041423	research project	3	3	Pass 100 credit hours	
	Elective (2) for mathematics	3	3		
Elective(1) for Mathematics					
19041435	Set theory	3	3	19041221	
19041443	Discrete mathematics	3	3	19041221	
Elective(2) for Mathematics					
19041428	Fuzzy mathematics	3	3	19041221	
19041440	Special Relativity	3	3	19041318	
19041442	Statistical inference	3	3	19041218	
Requirements outside of specialization					
19051220	Computers skills		۲	3	--
19051321	Mathematical applications in Computers	3		۴	19051220