

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	-----
42041103	Differential &Integral (1)	4	4	-----
42011103	General Biology(1)	3	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
42032102	General Physics (1)	4	5	-----
42020102	General Chemistry(1)	4	5	-----
11020107	recitation correction	2	2	-----
11010111	Islamic Culture(2)	2	2	-----
Second Year: First Term				
٤٢.٤١٢١٧	Principles of statistics and probability	3	4	-----
٤٢.٤١٢١٩	Vectors and Mechanics	3	4	-----
٤٢.٤١٢٢١	Fundamentals of Math.	3	4	-----
٤٢.٤١٢٢٣	Differential &Integral (2)	3	4	٤٢.٤١١.٣
٤٢.٤١٢٢٥	Analytical Geometry	3	4	-----
٤٢.٤١٢٢٧	English of Specific purposes (Mathematics)	2	2	-----
11010113	Voluntary service (1)	0	1	-----
Second Year: Second Term				
٤٢.٤١٢١٦	Real analysis (1)	3	4	42041103
٤٢.٤١٢١٨	Introduction to mathematical statistics	3	4	٤٢.٤١٢١٧
٤٢.٤١٢٢٠	Differential & Integral (3)	3	4	٤٢.٤١٢٢٣
٤٢.٤١٢٢٢	Ordinary Differential Equations	3	4	٤٢.٤١٢٢٣
٤٢.٤١٢٢٤	Linear Algebra	3	4	-----
42051202	Computer Skills	2	3	-----
11010123	Voluntary service(2)	0	1	-----
Third Year: First Term				
42041313	Numerical Analysis	3	3	٤٢.٤١٢٢٢
42041315	Abstract Algebra (1)	3	3	٤٢.٤١٢٢١
42041317	Partial Differential Equations	3	3	٤٢.٤١٢٢٢
42041319	Vector Analysis	3	3	٤٢.٤١٢٢٠
42041321	Mathematical applications in Computers	3	4	42051202
42041323	Statistical Analysis	3	3	٤٢.٤١٢١٧
Third Year: Second Term				

42041312	Real Analysis (2)	3	3	εΥ.ε1Υ1Γ
42041314	Continuum Mechanics	3	3	42041319
42041316	Complex analysis	3	3	εΥ.ε1Υ1Γ
42041318	Mathematical Methods	3	3	42041317
42041320	Number Theory	3	3	εΥ.ε1Υ21
11010112	Essay and Research Writing	2	2	-----
Fourth Year: First Term				
42041419	Analytical mechanics	3	3	εΥ.ε1Υ19
42041421	Abstract Algebra (2)	3	3	42041315
42041423	Introduction to Topology	3	3	εΥ.ε1Υ21
42041425	Differential Geometry	3	3	εΥ.ε1Υ2ε
4204142Υ	mathematical modeling	3	3	42041313
	Department Elective(1)	3	3	-----
Fourth Year: Second Term				
42041420	Quantum Theory	3	3	εΥ.ε1ε19
42041422	Operations Research	3	3	εΥ.ε1Υ18
420414ΥΥ	Functional Analysis	3	3	42041312
42041424	Research Project	3	3	Pass (100 C.Hr.)
42041426	Department Elective(2)	3	3	---
Electives				
42041429	Discrete Mathematics	3	3	εΥ.ε1Υ21
εΥ.ε1ε31	Sets Theory	3	3	εΥ.ε1Υ21
εΥ.ε1ε28	Fuzzy Mathematics	3	3	εΥ.ε1Υ21
εΥ.ε1ε3.	Special relativity	3	3	εΥ.ε1Υ1ε
εΥ.ε1ε32	Statistical inference	3	3	εΥ.ε1Υ18