

Department of Mathematics

بەشى ماتماتىك

First Year

Code	Module	يەكە Units	ژمارەى كاتژمىر لە ھەفتەيەكدا Hours / Week			بابەت
			ئەورى Lecture	پراكتىكى Lab	گفتوگۆ Tutorial	
SM101	Information technology	4	1	2	-	
SM102	English language	6	2	2	-	
SM103	Kurdology	4	2	-	-	
SM104	Academic Debate & Critical thinking	4	1	2	-	
SM105	Calculus	8	4	-	2	
SM106	Foundations of mathematics	8	4	-	2	
SM107	Finite mathematics	4	2	-	1	
Total		38	16	6	5	كۆى گشتى

Second Year

Code	Module	یہ کہ Units	ژمارہی کاتر مینر لہ ہفتہ پیکدا Hours / Week			بابہت
			تیوری Lecture	پراکتیکی Lab	گفتوگو Tutorial	
SM201	Advanced calculus	8	4	-	2	
SM202	Linear algebra	6	3	-	1	
SM203	Geometry	6	3	-	1	
SM204	Probability and statistics	6	3	-	1	
SM205	Ordinary differential equations	6	3	-	1	
SM206	Computational mathematics	6	2	2	-	
Total		38	18	2	6	کزی گشتی

Third Year

Code	Module	یہ کہ Units	ژمارہی کاتر مینر لہ ہفتہ پیکدا Hours / Week			بابہت
			تیوری Lecture	پراکتیکی Lab	گفتوگو Tutorial	
SM301	Mathematical analysis	8	4	-	-	
SM302	Abstract algebra	6	3	-	1	
SM303	Numerical analysis	8	3	2	-	
SM304	Mathematical statistics	6	3	-	1	
SM305	Theory of differential equations	6	3	-	1	
SM306	Elective	6	3	-	1	
Total		40	19	2	4	کزی گشتی

Elective

1. Linear programming
2. Graph theory
3. Mathematical physics
4. Cryptography
5. History of mathematics
6. Analytic mechanics
7. Applied combinatorics
8. Mathematical packages
9. Special functions
10. Axiomatic systems.
11. Matrix analysis,

Fourth Year

Code	Module	یہ کہ Units	ژمارہی کاترمیر لہ ہفتہ یہ کدا Hours / Week			بابہت
			تئوری Lecture	پراکتیکی Lab	گنتوگؤ Tutorial	
SM401	Complex analysis	8	4	-	1	
SM402	General topology	8	4	-	1	
SM403	Elective 1	6	3	-	-	
SM404	Elective 2	4	2	-	1	
SM405	Elective 3	4	2	-	1	
SM406	Elective 4	4	2	-	1	
SM407	Research project	4	1	2	-	
Total		38	18	2	5	کؤی گشتی

Elective 1 will be chosen from

1. Linear programming
2. Mathematical physics
3. Cryptography
4. Applied statistics
5. Mathematical packages
6. Module theory
7. Galois theory
8. Integral equations
9. Number theory
10. Special functions
11. Axiomatic systems.
12. Matrix analysis
13. Partial D. E.
14. Boundary value problem
15. Affine geometry

Elective 2, Elective 3 and Elective 4 will be chosen from

1. Linear programming
2. Graph theory
3. Mathematical physics
4. History of mathematics
5. Dynamical system
6. Applied combinatorics
7. Numerical approximation theory
8. Functional analysis
9. Module theory
10. Galois theory
11. Integral equations
12. Number theory
13. Special functions
14. Stability theory
15. Matrix analysis
16. Partial D. E
17. Algebraic geometry
18. Boundary value problem
19. Axiomatic systems
20. Affine geometry
21. Operator theory