



Master program of Pure Mathematics

First Level

Course Code	Course Title	Credits
570 Math.	Topology (1)	4
580 Math.	Measure Theory and Integration	4
540 Math.	Linear Algebra	4
Total		12

Second Level

Course Code	Course Title	Credits
541 Math.	Abstract Algebra	4
583 Math.	Complex Analysis (1)	4
581 Math.	Functional Analysis (1)	4
Total		12

Third Level

Course Code	Course Title	Credits
520 Math.	Ordinary Differential Equations	4
-	Elective Course	4
-	Elective Course	4
Total		12

Fourth Level

Course Code	Course Title	Credits
-	Elective Course	4
599 Math.	Research Project	4
Total		8



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The student must successfully complete (40) credit hours of the M. Sc. courses of mathematics.

The student must present a successfully complete and pass the research project (4) credit hours and its defense in his chosen area of specialization.

CODE/NO	Course name	No. of Credit hours			Perquisite
		Theo.	Pract.	total	
570 Math.	Topology (1)	4	-	4	-
580 Math.	Measure Theory and Integration	4	-	4	-
541 Math.	Abstract Algebra	4	-	4	-
540 Math.	Linear Algebra	4	-	4	-
581 Math.	Functional Analysis (1)	4	-	4	570Math - 580 Math
520 Math.	Ordinary Differential Equations	4	-	4	-
583 Math.	Complex Analysis (1)	4	-	4	-
Total		28	-	28	



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Elective courses: The student can choose any 3 courses from the following elective courses

CODE/NO	Course name	No. of Credit hours			Perquisite	
		Theo.	Pract.	total		
571 Math.	Topology (2)	4	-	4	570 Math.	Perquisite
556 Math.	Numerical Analysis	4	-	4	-	-
585 Math.	Stochastic Analysis	4	-	4	581 Math.	Perquisite
542 Math.	Group Theory	4	-	4	-	-
543 Math.	Selected Topics in Algebra	4	-	4	540 Math. - 541 Math.	Perquisite
575 Math.	Topological Vector Spaces	4	-	4	570 Math. - 581 Math.	Perquisite
533 Math.	Discrete Mathematics	4	-	4	541 Math.	Perquisite



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CODE/NO	Course name	No. of Credit hours			Perquisite	
		Theo.	Pract.	total		
523 Math.	Partial Differential Equations	4	-	4	580 Math.	Perquisite
587 Math.	Complex Analysis (2)	4	-	4	583 Math.	Perquisite
544 Math.	Fields and Galois Theory	4	-	4	541 Math.	Perquisite
572 Math.	Algebraic Topology	4	-	4	570 Math.	Perquisite
573 Math.	Differential Topology	4	-	4	570 Math. - 540 Math.	Perquisite
574 Math.	Riemannian Geometry	4	-	4	570 Math.	Perquisite
584 Math.	Functional Analysis (2)	4	-	4	581 Math.	Perquisite
519 Math.	Quantum Mechanics	4	-	4	-	-



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Research Project: the student must pass the Research Project

CODE/NO	Course name	No. of Credit hours			Perquisite
		Theo.	Pract.	total	
599 Math.	Research Project	4	-	4	Perquisite

Statistical Summary

Requirements	Credit hour	Total	Percentage %
Compulsory Courses	28	28	63.63
Elective courses	12	12	27.27
Research Project	4	4	9.1
Total	44	44	100