Curricula for postgraduate studies \ Department of mathematics

Diploma in statistical and computer mathematics

First semester				Second semester			
Subject	**Hours**		**Units**	**Subject**	**Hours**		**Units**
	THEO	**Pract.**			**THEO**	**Pract.**	
Regression Analysis	3	-	3	Experimental Design	3	-	3
Numerical Analysis	2		2	Mathematical Programing	2		2
Ordinary and Partial Differential Equations	3		2	Integral and Difference Equations	3		2
Programming by R Language	2	1	3	Operation Research	3	-	3
English Language	2	1	1	English Language 2	2	-	1
				Methods of writing a research project	2	-	-

Master of pure mathematics

First semester				Second semester			
Subject	**Hours**		**Units**	**Subject**	**Hours**		**Units**
	THEO	**Pract.**			**THEO**	**Pract.**	
Module Theory 1	3	-	3	Module Theory 2	3	-	3
Functional Analysis	3	-	3	Hyperring Theory	3	-	3
Differential Topology	3	-	3	Algebraic Topology	3	-	3
Numbers Theory	3	-	3	Approximation Theory	3	-	3
English Language1	2	-	1	English Language2	2	-	1
				Methods of writing thesis	2	-	-

Master of applied mathematics							
First semester				Second semester			
Subject	Hours		Units	Subject	Hours		Units
	THEO	Pract.			THEO	Pract.	
Advanced Mathematical Statistics	3	-	3	Fractional calculus	3	-	3
Functional Analysis	3	-	3	Numerical analysis	3	-	3
Differential Equations theory	3	-	3	Reliability and survival	2	-	2
Dynamical system	3	-	3	Delay differential equations	2	-	2
Mathematical modeling of oncology				Modeling in tumors	2	-	2
English Language1	2	-	1	Advanced operations research	2	-	2
				English Language2	2	-	1
				Method of writing thesis	2	-	-