Level of studies						Third cycle							
Stud	Study program Title of the study program					Science and mathematics education							
					C	OURSE							
Cot	urse title	2	Select	ed chapters of alg	ebra								
Со	Course ID		Semeste r	Course statu	Course status		CTS redits		Contact hours				
PMAT 603		3	Ι	Elective	Elective		7		60				
		Lecturer in charge											
		Other lecturers									•		
					from ring theory and solving algebraic equations and eepening understanding of the concept of polynomials, lits solutions.								
					CC	ONTEN	Г						
#	Teaching uni				ts			Contact hours					
	Ŭ								L		E/S	С	
	Polynomials and ideals. Polynomials in multiple independent variables. Arrangements in monoms set and sharing algorithm polynomials. The concept of a Grebner base. The characteristics of Grebner's base and the algorithm for calculating it. Solving system of polynomial equations using Grebner bases. The term resultants. Resultant of two polynomial and multipolinomial resultants. Characteristics and methods of calculation resultants. Solving algebraic equation systems by applying results.3030												
LITERATURE						ASSESSMENT OF LEARNING							
[1]	[1] D. Cox, J. Little and D. O'Shea,					Assess	Assessment method			Points Thre		hold	
	<ul><li>Ideals, Varieties and Algorithms, Springer, 2007</li><li>[2] D. Cox, J. Little and D. O'Shea,</li></ul>				1.	Partial	exams		25 25			15	
[2]					2.		r papers					1(	
[2]	Using Algebraic Geometry, Springer,					<ul><li>3 Final exam</li><li>4.</li></ul>			50			30	
[2]	2005 S Lana	. 11-	sobra Sor	inger, 2002	Total					100	55		
[3]	5 Lang	°, 115	5001 <i>a</i> , 501	nigu, 2002									