Drogram	Level		Secon	Second cycle					
riogram	Name	of the program	Pure	Pure Mathematics					
COURSE									
Course title		Differential Geometry							
Course code	Semest	Semester Course sta		tatus		(	Contact	hours	
						(.	L+AE+LE)		
PMAT 480	II	Mand	Mandatory course		8	3	+2+0		
Lecturer									
Course Goals	The co	The course presents general concepts of topological varieties, differentiable mappings							
	and their properties.								
Learning	Unders	Understanding the subject matter provides students a more general perspective and							
Outcomes concept of the theory of classical curves and surfaces in the 3-dimensional space									
COURSE CONTENT									
- Concept of a variety, charts, atlas and examples of projective space and Lie groups.									
- Differentiable mapping on varieties.									
- Orientable varieties.									
- Tangent space.									
- Derivative of a smooth mapping.									
- Vector field of a differentiable variety.									
- Geodesic curves									
LITERATURE									
[1] Michael Spivak. A comprehensive introduction to differential geometry. Houston 1999.									
STUDENT WORKLOAD (hours in a semester)									
Lectures	45	Exercises	30	Individual	l work	125	Total	200	
GRADING				REMARKS					
C :		Maximum	Minimum						
Criterion		points	points						
Midterm exams		60	30						
Final exam		40	25	1					
Total		100	55						