課程大綱調香表

					珠性人絅嗣 鱼衣	
					(中文) 微分幾何一	
-	課	程	名	稱		
					(英文)Differential Geometry (I)	
-	課和	呈所	屬領	域	□代數 □分析 □x 幾何 □離散	
	(請么	選)	□統計 □機率或金融 □計算或應數	
課 (□學年課 □學期課 : □x 上學期 □下學期	開課對象:□x 大學部 (senior
	課	程	規			undergraduate)
	(請勾				□x 研究生
					上課時間:Friday 678	預估修課人數:
課程綱要:						
I. Contents:						
	1. Differentiable and Riemannian manifolds.					
	2. Connection theory and curvature.					
3. The Moving-Frame method (Geometry of submanifolds)						
4. Comparison Geometry						
	5. Differential forms and de Rham cohomology.					
	II. Course Goal:					
Basic materials for differential geometry and geometric analysis						
III.Course prerequisite:						
Undergraduate geometry, basic linear algebra and analysis						
IV. Reference material (textbook(s)):						
1. J. Jost, Riemannian geometry and geometric analysis						
2. M. do Carmo, Riemannian Geometry.						
3. M. Spivak, Differential Geometry (5 volumes).						
	4. BY. Chen, Geometry of Submanifolds.					
	V. Grading scheme:					
	1. Home works					
	2. Final reports					