

Course Description

Department of Mathematics

Nature of the course <input type="checkbox"/> required <input type="checkbox"/> elective		Area 麻煩老師勾選類別，或直接填寫_____。 <input type="checkbox"/> 代數與數論 <input checked="" type="checkbox"/> 分析 <input type="checkbox"/> 幾何與拓樸 <input type="checkbox"/> 計算與應用數學 <input type="checkbox"/> 機率 <input type="checkbox"/> 統計 <input type="checkbox"/> 離散數學 <input type="checkbox"/> 其他 <input type="checkbox"/> 論文研討、獨立研究			
Calculus <input type="checkbox"/> Calculus A <input type="checkbox"/> Calculus B					
Course number		Section number	免填	Number of credits	
Course title	課程名稱：模函數特論 Special topics on the modular forms Theta functions				
Instructor	教授：林長壽				

I. * **Contents** :

In this course, we will talk about theta functions, modular form of half-integer weight, the correspondence between forms of integer and Half-integral weight and Dirichlet series.

II. **Course prerequisite** :

Advanced Calculus , Differential geometry and complex variables.

III. * **Reference material (textbook(s))** :

Springer Monographs in Math, Modular forms : Basics and Beyond, by shimura, 2011

IV. * **Grading scheme** : 請填寫各項計分之百分比，例如：期中 30% 期末 40% 作業 10% 報告 20%，總計 100%

V. * **Course Goal** :

Understanding the book of Shimura.

1. *號為必填欄位

2. 大綱內容字數英文最少 200 字以上