課程大綱及進度表

開課系所	應數所
開課學年	101
開課學期	1
課程名稱(中文)	分析通論一
課程名稱(英文)	GENERAL ANALYSIS (1)
課程碼	L150310
分班碼	
先修科目或先備能力	Advanced Calculus
學分數	3
開課教師	林育竹
e-mail	z10108033@email.ncku.edu.tw
電話	65152
Office Hours	By Appointment
課程概述	We will cover the following subjects: outer measure, measure, measurable functions, integrals, Fatou's lemma, Fubini's theorem, Lebesgue's differentiation theorem, L^p spaces.
教學目標	The purpose of this course is to introduce the Lebesgue measure on R ⁿ and the Lebesgue integral.
授課課程大綱明細	Chapter 3~8 in the textbook: 1. Lebesgue Measure and Outer Measure (Ch3) 2. Lebesgue Measurable Functions (Ch4) 3. The Lebesgue Integral (Ch5) 4. Repeated Integration (Ch6) 5. Differentiation (Ch7) 6. L^p Classes (Ch8)

參考書目	Textbook:
	R. L. Wheeden and A. Zygmund: <i>Measure and</i>
	Integral - An introduction to Real Analysis,
	Marcel Dekker, 1977.
	References:
	1. W. Rudin: "Real and Complex Analysis."
	2. Jones: "Lebesgue integration on Euclidean
	space."
課程要求	課程包涵課堂講授部分及習題部分.
	作業請準時繳交.
評量方式	期中考: 40%
	期末考: 40%
	作業: 20%
課程網址	
助教資訊	
備註	