成績稽核

基本資訊

教科書(尊重智慧財產權，請用正版教科書，勿非法影印他人著作)

書名	作者	譯者	出版社	出版年

無參考教科書

開課系所	生物產業科技學系	開課班級	大學日間部1年1班
任課教師	吳建一	專兼任別	專任

參考教材及專業期刊導讀(尊重智慧財產權，請用正版教科書，勿非法影印他人著作)

書名	作者	譯者	出版社	出版年

無參考教材及專業期刊導讀

課程簡介

課程大綱

第二學期的微積分課程，學生將會學習多變數微函數，多重積分，三角代換法,函數的極值,函數的凹性.反曲點 7.極值的應用 羅必達法則 曲線下的面積 旋轉曲之體積以及偏導數

基本能力或先修課程

微積分(一)

課程與系所基本素養及核心能力之關連

教學計畫表

上課進度		分配時數(%)				
週次	教學內容	講授	示範	習作	實驗	其他
1	7.2 Exponential Functions and Their Derivatives ;7.3 Logarithmic Functions;					
1	7.2 Exponential Functions and Their Derivatives ;7.3 Logarithmic Functions;					
2	7.2 Exponential Functions and Their Derivatives ;7.3 Logarithmic Functions;	100				
2	7.2 Exponential Functions and Their Derivatives ;7.3 Logarithmic Functions;	100				
3	7.4* General Logarithmic and Exponential Functions; 7.8 Indeterminate Forms and L ’ Hopital ’ s Rule					
3	7.4* General Logarithmic and Exponential Functions; 7.8 Indeterminate Forms and L ’ Hopital ’ s Rule					
4	8.1 Integration by Parts; 8.2 Trigonometric Integrals					
4	8.1 Integration by Parts; 8.2 Trigonometric Integrals					
5	7.6 Inverse Trigonometric Functions; 8.3 Trigonometric Substitution					
5	7.6 Inverse Trigonometric Functions; 8.3 Trigonometric Substitution					
6	8.4 Integration of Rational Functions by Partial Fractions ; 8.8 Improper Integrals					
6	8.4 Integration of Rational Functions by Partial Fractions ; 8.8 Improper Integrals					
7	8.8 Improper Integrals					
7	8.8 Improper Integrals					
8	期中考					
8	期中考					
9	15.1 Functions of Several Variables; 15.2 Limits and Continuity					
9	15.1 Functions of Several Variables; 15.2 Limits and					

系所核心能力	權重(%)【A】	檢核能力指標(績效指標)	教學策略	評量方法及配分權重	核心能力學習成績【B】	期末學習成績【C=B*A】

無此教學計畫表資訊

10	15.3 Partial Derivatives ; 3.9 Linear Approximations and Differentials	
10	15.3 Partial Derivatives ; 3.9 Linear Approximations and Differentials	
11	15.4 Tangent Planes and Linear Approximations; 15.5 The Chain Rule	
11	15.4 Tangent Planes and Linear Approximations; 15.5 The Chain Rule	
12	15.6 Directional Derivatives and Gradient Vectors ; 15.7 Maximum and Minimum Values	
12	15.6 Directional Derivatives and Gradient Vectors ; 15.7 Maximum and Minimum Values	
13	15.7 Maximum and Minimum Values; 15.8 Lagrange Multipliers ; 16.1 Double Integrals over Rectangles	
13	15.7 Maximum and Minimum Values; 15.8 Lagrange Multipliers ; 16.1 Double Integrals over Rectangles	
14	16.2 Iterated Integrals; 16.9 Change of Variables in Multiple Integrals	
14	16.2 Iterated Integrals; 16.9 Change of Variables in Multiple Integrals	
15	12.1 Sequences ; 12.2 Infinite series(Convergence & Divergence)	
15	12.1 Sequences ; 12.2 Infinite series(Convergence & Divergence)	
16	12.6 Absolute Convergence and the Ratio and Root Tests; 12.10 Taylor and Maclaurin Series	100
16	12.6 Absolute Convergence and the Ratio and Root Tests; 12.10 Taylor and Maclaurin Series	100
17	12.10 Taylor and Maclaurin Series	100
17	12.10 Taylor and Maclaurin Series	100
18	期末考週	0
18	期末考週	0