Linear Algebra

邱雅萍   Tel:校內分機 65185   E-mail: ypchiu@phys.ntu.edu.tw

Office hours: (Time) Tue. 10:00~12:00, Wed. 10:00~12:00

(Place) 凝態物理館 635 室

Textbook:

"Linear Algebra and its Applications" Fourth Edition, Gilbert Strang
"Elementary Linear Algebra" Second Edition, Spence, Insel, Friedberg

There will be 16 lectures on Introduction to General Physics starting from Tue. 15 Feb, 2022. The course will be followed by the textbook.

Week	Date	Course	Remarks
1	2/15	[Chapter 1] 矩陣與聯立方程組 (Matrix and Systems of Linear Equations)	課程大綱介紹、MATLAB
2	2/22	[Chapter 1] 矩陣與聯立方程組 (Matrix and Systems of Linear Equations) / **Matlab**	[2/26]網路加退選截止
3	3/1	[Chapter 2] 向量空間 (Vector Space)	
4	3/8	[Chapter 2] 向量空間 (Vector Space)	
5	3/15	[Chapter 3] 線性變換 (Linear Transformation) [Chapter 4] 正交(Orthogonality)	
6	3/22	[Chapter 4] 正交(Orthogonality)	
7	3/29	[Chapter 5] 特徵值/特徵向量 (Eigenvalues and Eigenvectors)	
8	4/5	(school/office closure)	[4/6 調整放假]
9	4/12	**Mid-term Examination**	期中考
10	4/19	[Chapter 5] 特徵值/特徵向量 (Eigenvalues and Eigenvectors) / **Matlab**	
11	4/26	[Chapter 5] 特徵值/特徵向量 (Eigenvalues and Eigenvectors)	[4/29 停修申請截止]
12	5/3	[Chapter 6] 正定形式 Positive Definite Matrices	
13	5/10	[Chapter 6] 正定形式 (Positive Definite Form)	
14	5/17	[Chapter 7] 應用 (Applications)	
15	5/24	[Chapter 7] 應用 (Applications)	
16	5/31	**Final Examination**	期末考

Score: (共 100 %)

期中考：50 % (Additional MATLAB programming on "Matrices" 5%)

期末考：50 % (Additional MATLAB programming on "Determinants" and "Eigenvalues Eigenvectors"5%)

Assistants：

(A1_陳逸峰_課本習題解析)：r10222006@ntu.edu.tw ; 0979099009

(A2_李湘_課本習題解析)：r10222053@ntu.edu.tw

(A3_鮑彥滕_MATLAB Programing)：b07202057@ntu.edu.tw ; 0934161180