信號與系統

課程大綱-	
課程概述	1.Fundamentals 2.Linear Time-invariant Systems 3.Fourier Series & Fourier Transform 4.Discrete Fourier Transform (DFT) 5.Time/Frequency Characterization of Signals/Systems 6.Sampling & Sampling Theorem 7.Communication Systems 8.Laplace Transform 9.Z-Transform 10.Linear Feedback Systems 11.Some Application Examples
課程目標	Scope of The Course •Those Signals/Systems Operated by Electricity, in Particular those based on Software and Computers with Extensive Computation and Memory, for Information Processing and Control Purposes Primarily •Analytical Framework to Handle Such Signals/Systems •Mathematical Description/Representation of Such Signals/Systems •Language and Tools to Solve Problems with Such Signals/Systems
課程要求	Midterm 35% Final 35% MATLAB problems 20% Homeworks 10%
參考書目	教科書：Oppenheim & Willsky, "Signals & Systems", 2nd Ed. 1997, Prentice-Hall, 新月 參考書目：S. Haykin & B.Van Veen, "Signals & Systems", 1999, John Willey & Sons, 歐亞