Textbook:
1. Electronic Instrumentation and Measurements, 2nd ed., David A Bell
2. Elements of Electronic Instrumentation and Measurement (Joseph J. Carr) 新月

References:
1. Electrical Measurement, Signal Processing, and Displays - John G. Webster, 2004
3. Principles of Measurement and Instrumentation, 2nd ed. - AS Morris
4. Electronic Instruments and Measurements, 2nd ed. - L. D. Jones and A.F. Chin
5. Electronic Test Instruments, 2nd ed. - Robert A. Witte (Ch. 5, 8, 9)
6. Electronic Instruments and Measurements, 2nd ed. - L.D. Jones and A.F. Chin (Ch. 15)

Class Meeting Time: Wednesday 09:10am ~ 10:00am, Friday 10:10am~12:00pm
Instructor: Chin-Lung Yang (楊慶隆. 電機所儀器系統與晶片組)  Office: 92609 EE Building
Office Phone: 06-2757575 ext. 62422   E-mail: cyang@mail.ncku.edu.tw
Handouts: All handouts can be downloaded on Internet at (please print out Ch. 1~8)
   http://myweb.ncku.edu.tw/~cyang/courses/instrum/lecture_notes/LectureNote_list.htm
Office Hours: Tuesday/Wednesday/Thursday 1:00-2:00pm
Preparing Time: 9 hours
Grading: Attendance: 15%; Homeworks:20%; Mid-term Exam:30%; Final Exam:35%

(I) Course Syllabus:
Chapter 1: Introduction to Electronic Instrumentation and Measurement
Chapter 2: Basic Measurement Theory (Measurement Errors)
Chapter 3: Electromechanical Instruments
Chapter 4: Analog Electronic VOM
Chapter 5: Digital Instrument Basics
Chapter 6: Digital Voltmeters and Frequency Meters
Chapter 7: Low, High, and Precise Resistance Measurements
Chapter 8: Inductance and Capacitance Measurements
Chapter 9: Instrumentation and System

(Chapter 1~9 Taught in each classroom by 3 teachers).

<<<<<<  Mid-term Exam-Chapters 1~9, November >>>>>>

(Chapter 10~15 Taught together in ONE classroom by one teacher alternately).
Chapter 10: Digital Oscilloscope (Prof. Wei) (B1 迅慧講堂)
Chapter 11: High-Speed I/O and Logic Analyzer (Prof. Wei)
Chapter 12: Spectrum Analyzer (Prof. Yang)
Chapter 13: Network Analyzers (Prof. Yang)
Chapter 14: LCR meter and Impedance Analyzer (Prof. Tai)
Chapter 15: Time-Domain Reflector (Prof. Tai)

<<<<<<  Final Exam-Chapters 10~15, January >>>>>>

Note: (1) After the mid-tern exam, all 3 classes will be taught together in ONE classroom (B1 迅慧講堂). Courses on Wednesdays will be re-scheduled due to no classroom is available.
(2) The class on 11/21 will be re-scheduled due to that all conference rooms are reserved for the workshop.
(3) No delayed homework is acceptable, please be careful to check the deadline.
(4) No cheating and copy work is allowed. You must be failed if I found you cheat.