量測原理與機工實驗 100 學年度第二學期課程進度表

Week	Lecture Topics	講員	LAB
1. (2/22)	LabView	單秋成	
2. (2/29) (週一、二實驗調至週六)	LabView	單秋成	LabView
3. (3/7)	Displacement transducers, Fiber optics	單秋成	LabView
4. (3/14)	Heat treatment and mechanical properties testing	陳永傳	Clip gage
5. (3/21)	Heat treatment and mechanical properties testing	陳永傳	Clip gage
6. (3/28)	A/D converter, Sampling theorem	顏家鈺	Heat treatment and mechanical properties testing
7. (4/4)	(溫書假)		
8. (4/11)	Encoder and servo-systems	顏家鈺	Heat treatment and mechanical properties testing
9. (4/18)	Midterm		A/D converter, Sampling theorem
10. (4/25)	Pressure transducers, Sound sensors	周元昉	Encoder and servo-systems
11. (5/2)	Acoustic sensors, Frequency sensors	周元昉	Buckling (LVDT)
12. (5/9)	Fast Fourier transform and spectrum analyzer	周元昉	Dynamic balancing (Eddy current sensor)
13. (5/16)	Principles of digital imaging	楊馥菱	Spectrum analysis
14. (5/23)	Measurement of fluid temperature and pressure	楊馥菱	Digital image acquisition and low-Re flow observation (Yang)
15. (5/30)	Laser diagnostics for thermofluidic measurements	潘國隆	Boundary effects on free-falling spheres (Yang)
16. (6/6)	More on micro/nano fluidics	潘國隆	Pressure and velocity measurements of internal airflow around a circular cylinder (Pan)
17. (6/13)	(To be determined)	楊馥菱	Visualization of wake flow behind a circular cylinder (Pan)
18. (6/20)	Final		