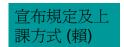
	日	_		三	四四	五	六
Feb.	20	21	22	23	24	25	26
	27	28					
Mar.			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		
Apr.						1	2
	3		8	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
May	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				
June				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25



Announcement (Prof. Mei-Feng Lai)



Holidays

•Prof. Cheng-Yao Lo: 3/4-3/17

•Prof. Yu-Lin Wang and

Prof. Chihchen Chen: 3/18~3/31

•Prof Da-Jeng Yao: 4/8-4/21

•Prof. Sheng-Shian Li: 4/22-5/5

•Prof. Chien-Chung Fu: 5/6-5/19

•Prof. Mei-Feng Lai: 5/20-6/2

期末考(賴)

Final exam (Prof. Mei-Feng Lai)

- 1. The first class for course announcement is at 10:10-12:00 on 2/25, Friday. Please do attend.
- 2. Please download and print the experimental manual on the website http://www.nems.nthu.edu.tw/lai/board_course/index.php.

ID: your student ID

Password: your student ID

- 3. The TA for general affairs of this class is Mr. Chen, ext 33798, email haupig1204@gmail.com . The TA for each lab course will be assigned later by each lecturer.
- 4. Grading: six experimental reports and class participation (75%), final exam (25%)
- 5. Lectures: F3F4 (10:10~12:00) (For all four groups)

Experiments: First group: MaMb (18:20~20:10)

second group: T9Ta(17:20~19:10) third group: W9Wa(17:20~19:10) fourth group: R9Ra(17:20~19:10)

- 6. Final exam: 6/10, 10:10
- 7. The deadline for uploading lab report is one week after the last day of each lab section. For example, Prof. Lo's last lab course is on March 17 (Thur.), so the deadline for uploading lab reports for all 4 groups of students is April 24 (Thur.) 12:00pm. Please upload your lab report on the website http://www.nems.nthu.edu.tw/lai/board_course/index.php, which will be closed after the deadline for uploading.
- 8. The lab report should be in PDF format.

Lecturer	Course	Weeks	Outline	Equipment
Prof. Da-Jeng Yao	Measurement of	2	1. IR: fundamentals and	Infrascope II
	surface		applications	
	temperature		2. Measurement of LED	
	profile on		3. Measurement of micro	
	micro/nano		devices	
	devices)		4. Measurement of surface	
			properties of nano	
			structures	
Prof. Sheng-Shian Li	Measurement of	2	1. Micromechanical	Vacuum
	Micromechanic		Resonators: fundamentals	measurement
	al Resonators		and applications	system, Network
			2.Introduction to	analyzer
			Micromechanical	
			Resonators measurement	
			3.Analysis of frequency	
			characteristics:	
			measurements of motional	
			impedance and Q factor.	
	Laboratory for	2	1. Principles of scanning	scanning electron
Prof. Chien-Chung Fu	the		electron microscope (SEM)	microscope
	measurement of		2. Demonstration	
	microstructure			
	geometry			
Prof. Mei-Feng Lai	Measurement of	2	1. Introduction to nano and	MOKE system
	magnetic		micron-sized magnetic	
	properties of		devices: fundamentals and	
	micro/nano		applications	
	devices		2. Introduction to	
			magneto-optical Kerr effect	
			(MOKE) measurement	
			system	
			3. MOKE measurement of	
			nano and micron-sized	
			magnetic devices	
Prof. Chen & Prof.	1. Measuring	2	1. Introduction of	1. Bioanalyzer
Wang	DNA		microfluidic	2. semiconduct

	profiles		electrophoresis	or parameter
	2. Measureme		systems	analyzer/
	nt of		2. Introduction of	vacuum
	semiconduc		semiconductor device	system
	tor devices		measurement.	
			3. Practice of	
			semiconductor device	
			measurements.	
Prof. Cheng-Yao Lo	Optical Thin	2	1. Multilayer Optical	Multilayer
	Film		System Introduction	Optical System
	Measurement		2. Multilayer Optical	
			System Simulation	
			3. Practical Measurement	
			and Theoretical Calculation	

授課教師	實驗中/英名稱	授課週	實驗課程大綱	使用儀器項
,		數		目
		(講授		
		加實		
		驗)		
饒達仁	奈微米元件表面溫	2周	1. IR基本原理及應	熱像儀
	度量測		用介紹	Infrascope II
	(Measurement of		2. LED 量測	
	surface temperature		3. 微米元件量測	
	profile on		4. 奈米結構表面特	
	micro/nano devices)		性量測	
李昇憲	微機械共振器量測	2 周	1. 微機械共振器介	真空量測系
	(Measurement of		紹:基本原理及	統、網路分析
	Micromechanical		應用	儀
	Resonators)		2. 微機械共振器量	
			測介紹	
			3. 頻率特性分析:	
			運動阻抗與Q值	
			量測	
	微結構幾何形狀量	2 周	1. 電子顯微鏡原理	電子顯微鏡
傅建中	測實驗		2. 操作示範	
	(Laboratory for the			

	measurement of			
	microstructure			
	geometry)			
賴梅鳳	奈微米磁性元件之	2 周	1. 奈微米磁性元件	磁光量測系
	磁光性質量測		介紹: 基本原理	統
	(Measurement of		及應用	
	magnetic properties		2. 磁光量測系統介	
	of micro/nano		紹	
	devices)		3. 奈微米磁性元件	
			之磁光性質量測	
陳致真/王	微量 DNA 量測	2 周	1. 微流道電泳系統	生化分析儀
玉麟	半導體元件量測		介紹	半導體元件
			2. 半導體元件量測	分析儀/真空
			介紹	系統
			3. 半導體元件量測	
			實作	
羅丞曜	光學薄膜量測	2周	1. 多層膜光學系統	多層膜光學
	Optical Thin Film		介紹	系統
	Measurement		Multilayer Optical	
			System Introduction	
			2. 多層膜光學系統	
			模擬	
			Multilayer Optical	
			System Simulation	
			3. 系統量測及理論	
			計算	
			Practical	
			Measurement and	
			Theoretical	
			Calculation	
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