ME 301 Mechanical Engineering Laboratory 1 (TEPE)

Teaching s	schedule		
Week 1 st	Engineering measurement and data analysis	DrIng. Thira Jearsiripongku	
	(with a test after the lecture 10%)		
Week 2 nd	Sensors and data acquisition	DrIng. Thira Jearsiripongku	
	(with a test after the lecture 10%)		
Week 3 — 1	0: with the following experiments		
Solids and	material science:		
1. Tensile Testing (1 st floor at new building)		Dr. Chaosuan Kanchanoma	
2. Measure	ments Using Strain Gauge (ME shop)	Ajarn Kata Vataki	
Heat and e	nergy:		
3. Temperature and Humidity Measurement (ME shop)		DrIng. Thira Jearsiripongku	
4. Applicat	ion of Thermoelectric (ME shop)	DrIng. ThiraJearsiripongkul	
Fluids:			
5. Various	Types of Air Flow Measurement Devices (3 rd floor at ne	ew building) Dr. Wiroj Limtrakarı	
6. Characte	eristic curve of Pump (ME shop)	DrIng. Thira Jearsiripongku	
Dynamics :	and control:		
7. Applicat	ion of the accelerometer (Room 613, Main building)	DrIng. Thira Jearsiripongku	
8. Applicat	ion of the potentiometer (Room 613, Main building)	DrIng. Thira Jearsiripongku	
Assessme	nt:		
Engineerin	g measurement and data analysis	10%	
Sensors ar	nd data acquisition	10%	
Laboratory	(Attendance, time and attention)	20%	
Short repo	rt (Theory, results and short conclusions)	10%	
Full report		50%	

Schedule	Date	Instructor	Place
Introduction	22/06/06	Thira	ME shop
Engineering Measurement	29/06/06	Thira	Main building
Sensors and Data Acquisition	06/07/06	Thira	Main building
Strain Gauge	13/07/06	Kata	ME shop
Characteristic Curve of Pump	20/07/06	Thira	ME shop
Various Types of Air Flow Measurement Devices	27/07/06	Wiroj	3 rd floor at
			main building
Application of the Potentiometer	24/08/06	Thira	Room 613,
			Main building
Tensile Test	31/08/06	Chaosuan	1 st floor at
			main building
Temperature and Humidity Measurement	07/09/06	Thira	ME shop
Application of Thermoelectric	14/09/06	Thira	ME shop
Application of the Accelerometer	21/09/06	Thira	Room 613,
			Main building

Short report: Objective, Short Experimental procedures, Results and Short analysis.

Full report: Objective, Short theory, Full Experimental procedures, Results, Analysis and Conclusions

Submission: Every Wednesday (before 12:00 at TEP/TEPE Office)