### EE218 Instrumentation and Measurements

	Academic	Year & Level	Теа				
Prerequisites	Year	Semester	Lecture	Tutorial	Laborator y	Credit Hrs.	
EE238 2		4	2	2	0	3	
COURSE AI	M						

#### COURSE INFORMATION

This course aim to investigate different methods for remote measuring, study how transducers operate and their characteristic, and to study how to analyze data obtained from measurements.

Midterm Exam

+

## COURSE WEEKLY CONTENTS

- **1** Introduction to feedback control (1).
- 2 Introduction to Process control.
- **3** Physical Measurements.
- 4 Introduction to feedback systems.
- 5 Liquid level instruments.
- 6 Liquid flow instruments.
- 7 Temperature measurements.
- 8 Displacement + velocity measurements.
- **9** Force and torque measurements.
- **10** Data analysis.
- **11** Error detectors/comparators.
- **12** 12th week assessment + Electric/pneumatic transducers.
- **13** Cont(Amplifier transducers).
- 14 Actuation.
- 15 Revision.

#### STUDENT GRADING & ASSESSMENT

Weeks	Exams		Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20	Midterm	← ™	1 be freely distri	•	ккs possible assessn	→ nents	30
8 to 12	÷			2	0 M A I	RKS	$\rightarrow$	20
13 to 15	÷			1	0 M A I	RKS	$\rightarrow$	10
16 or 17	40	Final						40
Total		Exams	Assign.	Quizzes	Reports	Present.	Lab.	100
REFERENCES								

# TextbookTextbook Janarder Prasad, M.N. Jayaswal, "Instrumentation and process<br/>control" McGRAW-hill

Other C.J. Chesmond "Basic control system technology" Austin and Pickersgill "Instrumentation and control"