

COURSE TITLE	TE142308: Control Instrumentation Credits: 2 Semester: I
LEARNING OBJECTIVES	The students are able to design a control system completely with control component.
COMPETENCY	<ul style="list-style-type: none"> • Students have the ability to design the control system and use the component needed in a control loop
SUBJECTS	<ul style="list-style-type: none"> • Introduction of control systems instrumentation • Analog signal conditioning, Digital signal conditioning • Sensors: Temperature, Level, pressure, weight and flow • Controller and final control element • Computers and communication systems for control systems
MAIN REFERENCES	<ul style="list-style-type: none"> • Curtis D. Johnson., <u>Process control instrumentation technology</u>, 7th edition, PHI, New Jersey, 1989. • Wolfgang Altman, <u>Practical Process Control for Engineers and Technicians</u>, John Elsevier, 2005 • W.L. Luyben, <u>Process Modeling, Simulation and Control for Chemical Engineers</u>, McGraw Hill, 2nd edition, 1990.
OPTIONAL REFERENCES	-
PREREQUISITE	-