PHY 426: Industrial Electronics and Quality Control  2 Units

Department of PHYSICS

Covenant University
1. PHY426

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Prerequisites: PHY 317 & PHY 331

Operational amplifiers, positive and negative feedback; analog computers, electronic building blocks. Solid state devices-Thyristors, diacs and triacs; Relays and timers; Photodetectors, phototransistors, optocouplers and optoisolators and their applications; Tunnel diode, particle counters; electronic control of industrial processes. Analog/Digital conversion, Phase locked loops (PLL); Differential and instrumentation amplifiers. Measurements and signal processing temperature, light level, strain/displacement, pressure, force, particle detectors.