

INDUSTRIAL ELECTRICITY LAB (ITEL)

ITEL 112 INTERMEDIATE ELECTRONICS LAB (1 Hour)

Prerequisite: ITEL 111.

A laboratory course which covers network analysis, measurement of DC and AC current and voltage, power in AC circuits, resonance, RL circuits, RC circuits, and RLC circuits. (F, S)

ITEL 221 DEVICE AND CIRCUITS LAB I (1 Hour)

Prerequisite: ITE 111 112.

A laboratory course which studies oscilloscope operation, oscilloscope voltage calibration and frequency measurements, characteristics of an inductance, characteristics of a series RC circuits, RC time constants, characteristics of a capacitor, characteristics of a series RLC circuit, RF signal generator, parallel resonant circuit, diodes, and characteristics of amplifiers. (F)

ITEL 338 DIGITAL LOGIC LAB I (1 Hour)

Prerequisite: ITE 111 112.

A laboratory course which covers logic OR gate, logic NOT, AND gate, integrated circuit gates, half-adder circuit full-adder circuit, colpitt: Oscillator, and Karnaugh map, and triggered monostable multivibrator. (S)

ITEL 449 NETWORKING LAB (1 Hour)

Prerequisite: ITEL 338.

This course provides practical instruction on the networks connection and trouble shooting. Students will be introduced to telecommunications cabling technology and learn the systems used for distribution of data, voice, and video communications. This course will cover identification and application of appropriate connectors, cable types, safety concerns, and testing of systems. (F, S)