

Course Title: Electronics and Signals Systems Laboratory Work

Course Code: EEEG 222

Credit Hours: 1

Course Description:

This course reinforces the concepts learned in the courses Electronics Engineering II and Signals and Systems theory classes that have a strong practical applications emphasis, by a series of relevant experiments carried out in the laboratory.

Course Contents:

A series of experiments to reinforce the subject matter taught in ‘EEEG214: Electronics Engineering II’ and ‘EEEG 221: Signals and Systems’ in the second year second semester are to be carried out. The followings could be the experiments to be carried out for Electronics Engineering II:

1. Filter Design Lab Lower Spectrum
2. LC Filter Higher Spectrum
3. H Feedback
4. Oscillator
5. Schmitt Trigger and Astable Multivibrator
6. Sawtooth Wave Generator Monostable Multivibrator Chip Implementation
7. Astable Multivibrator Chip Implementation
8. Log Antilog Amplifiers
9. PLL
10. Precision Rectifier
11. BJT Inverter and DTL Gates

Similar 6 to 7 experiments are to be carried for Signals and Systems.

Evaluation:

In-Semester Evaluation: 80%

End-Semester Evaluation: 20%