# **Master Syllabus**

## **EET 2259 - Programming for Electronics Technology**

**Division:** Science, Mathematics and Engineering **Department:** Electronics Engineering Technology

Credit Hour Total: 4.0 Lecture Hrs: 3.0 Lab Hrs: 2.0

Prerequisite(s): EET 2201 AND EET 1131

Date Revised: October 2012

#### **Course Description:**

Computer solutions of engineering technology problems using LabVIEW. Covers the LabVIEW programming environment and virtual instruments, datatypes, debugging, sub-virtual instruments, programming structures, arrays, graphical presentation and analysis, file input/output, instrument control, data acquisition, and applications to electronic circuits. Three classroom, two lab hours per week.

#### **General Education Outcomes:**

□ Critical Thinking/Problem Solving Competency

### **Course Outcomes:**

### **Programming skills**

Apply graphical programming skills using LabVIEW for problem solving and critical thinking.

**Assessment Method:** Locally developed exams **Performance Criteria:** Correctly answer at least 70% of exam questions

#### Interfacing and control

Apply programming skills to interface with and control electronic systems.

Assessment Method: Locally developed exams

Performance Criteria: Correctly answer at least 70% of exam questions

### Automated circuit analysis

Use LabVIEW to analyze circuits and electronic systems.

Assessment Method: Locally developed exams

Performance Criteria: Correctly answer at least 70% of exam questions

#### **Outline:**

LabVIEW Virtual Instruments (VIs) Editing & debugging techniques Datatypes Sub-VIs Structures Arrays & Clusters Charts & graphs File I/O Data acquisition Data analysis Instrument control Applications to electronic circuits