

Master Syllabus

EET 2264 - PC Troubleshooting & Repair

Division: Science, Mathematics and Engineering

Department: Electronics Engineering Technology

Credit Hour Total: 4.0

Lecture Hrs: 3.0 **Lab Hrs:** 3.0

Prerequisite(s): EET 1164

Date Revised: October 2012

Course Description:

Familiarization of circuits, components, malfunctions and systematic troubleshooting of personal computers, installation of basic computer operating systems (OS), network topologies, including hands-on experience with software and hardware diagnostic tools and equipment. Three classroom, three lab hours per week.

General Education Outcomes:

- ▣ Oral Communication Competency
- ▣ Critical Thinking/Problem Solving Competency
- ▣ Computer Literacy Competency
- ▣ Information Literacy Competency
- ▣ Values/Citizenship/Community Competency

Course Outcomes:

Installation

Perform installation of operating systems and networking hardware.

Assessment Method: Performance appraisals

Performance Criteria: Score "17.5" or better on a five by five rubric

Assessment Method: Portfolios

Performance Criteria: Score "17.5" or better on a five by five rubric

Interfacing and networking

Demonstrate interfacing between major components and install, configure, and test basic network hardware.

Assessment Method: Performance appraisals

Performance Criteria: Score "17.5" or better on a five by five rubric

Troubleshooting and repair

Demonstrate techniques to troubleshoot and repair computers using diagnostic software and test equipment.

Assessment Method: Locally developed exams

Performance Criteria: Score 70% or higher

Outline:

Internal computer components
Input and output devices
Replacement components
Hardware /software diagnostic flowcharts
Hardware /software repair tools and methods
Basic PC repair forms concept mapping
Basic PC networking
Documentation management techniques
Operating systems and installation
Networking hardware basics and installation