

CUMBERLAND COUNTY COLLEGE

Course: IT 111 Electronics

Credits: 4

Prerequisites: IT 110

Description:

A study of semi-conductor devices and applications. Diodes transistor, mosfets, FET Transistor and UJT Transistors, SCR's and Tri AC's are analyzed.

Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Describe the operation of a semiconductor diode
- Distinguish the types of transistors
- Identify components of an electronics circuit
- Operate Voltmeters and Ammeters effectively
- Construct simple electronic circuits
- Identify the faulty components of simple circuits
- Experiment employment of integrated circuits

Topical Outline:

- Semiconductor diodes
- Applications of Diodes
- Rectifiers and Power Supplies
- Transistor and its varieties
- Applications of Transistors
- Operational Amplifiers
- Applications of Operational Amplifiers
- Integrated Circuits

Text:

Electronics Fundamentals, Floyd, Prentice Hall publications

Student Assessment:

Student Assessment is accomplished through Mid-Semester Exams, Final Exam, Homework assignments, laboratory participation, and term project as follows:

Two mid-semester Exams	30%
Final Exams	20%
Homework Assignments	15%
Lab Participation	15%
Term Project	20%

Academic Integrity:

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense.

As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

Tutoring & Project Assist:

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

Before Withdrawing From This Course:

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) BEFORE withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA, which can limit or eliminate future financial aid in addition to causing academic suspension.