Electronics Technicians Program Suggestions

**Section one**

**ELTR-190 Capstone Project**

**Documentation OutLine**:

**ETLR-160 Project Management Methodologies and Impacts for Electronics:**

OutLine a framework with ELTR-190 in mind ………………………………

Keeping Scenarios Electronic related ……………………………………….

**CMNS-125 Communication For Professionals:**

APA Style ……………………………………………………………………….

Research Report:

The History of Calculators and the Technological Innovations ……………

Email Correspondence:

Club Proposal to Student Union ………………………………………………

Revision of Club Proposal Emai l ……………………………………………..

Bad News Email ………………………………………………………………..

Club Presentation ………………………………………………………………

**ELTR-110 Electronics Manufacturing Processes:**

Schematics Drawings introduction to components and Circuits ………….

Software introductions to Multisim and UltiBoard …………………………..

Project 1 Power Supply Schematic and PCB Design ………………………

Project 2 Timer Circuit using Ben Eater Design Clock Module …………….

**ELTR-100 Electrical Network Analysis:**

Define more complex aspects of Component knowledge …………………..

Circuit Analysis:

Series, Parallel and Series-Parallel ect ………………………………………

Theorems …………………………………………………………………………

Meter Reading and Troubleshooting Methods ……………………………….

**ELTR-130 Digital Logic Systems:**

Software Introductions to Logisim ……………………………………………..

Boolean Algebra …………………………………………………………………

Introduce TTL ……………………………………………………………………

Combinational Logic Design:

Make a SR Latch, Gated Latch, D Flip Flop ………………………………….

Make an 8 Bit Register ………………………………………………………….

Make a Half Adder, FullAdder, Comparator …………………………………..

Make an ALU …………………………………………………………………….

Make a Binary Counter ………………………………………………………….

How to Configure OutPut DisplayLogic ………………………………………..

Getting into Control Logic ……………………………………………………….

**ELTR-140 Introduction to Engineering Graphics:**

Needs Course Syllabus …………………………………………………………

Written Instructional Exercises …………………………………………………

**ELTR-150 Solid State Electronic Devices:**

LABS need to be more hands and simplified to match class examples …..

In class Example make clear the computation in the circuit Analysis ……..

Use Multisim. There are examples in our textbooks …………………………

**ELTR-180 Networks and Data Communications:**

<https://eater.net/6502> ……………………………………………………………

<https://eater.net/crc> ………………………………………………………………