COURSE SLO STATEMENTS REPORT

ECC - ELECTRONICS AND COMPUTER HARDWARE TECHNOLOGY

Course ID	Course Name	Course SLO Title	Course SLO Statement	Course SLO Status	Input Date
ECC: ECHT 11	Introduction to Electronics	SLO #1 Measuring Voltages and Currents	Measuring Voltage and Current The student will make basic “in-circuit” measurements: Alternating Current/Direct Current (AC/DC), Voltages and Currents, and Resistance, using both a Bench and Portable Digital Multimeter (DMM)	Active	11/12/2013
ECC: ECHT 11	Introduction to Electronics	SLO #2 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations	Active	11/12/2013
ECC: ECHT 11	Introduction to Electronics	SLO #3 Circuit Analysis Calculations	The students will be able to use various circuit analysis calculations to predict a basic circuits operation	Active	11/12/2013
ECC: ECHT 110	Introduction to Direct and Alternating Current Circuits	SLO #1 Measuring Voltage, Current & Resistance	The student will make advanced ”in- circuit” measurements : Alternating Current/Direct Current (AC/DC), Voltages, Currents, and Resistance, using both a Bench and Portable Digital Multimeter (DMM).	Active	11/12/2013
ECC: ECHT 110	Introduction to Direct and Alternating Current Circuits	SLO #2 Direct & Alternating Currents	The student will use an Electronic Simulation Software Package similar to Multi-SIM or “P” Spice to supplement both the understanding and analysis of Direct and Alternating Current Circuits.	Active	11/12/2013
ECC: ECHT 110	Introduction to Direct and Alternating Current Circuits	SLO #3 Circuit Analysis Calculations	The student will be able to use various circuit analysis calculations to predict basic circuit operation.	Active	11/12/2013
ECC: ECHT 120	Semiconductor Circuits I	SLO #1 In-Circuit Measurements	The student will make basic “in-circuit” measurements using Bench and Portable Digital Multimeter (DMM), Oscilloscope, and Voltage Ohm (VOM), Milliamp Meter on Solid-State Systems.	Active	11/12/2013
ECC: ECHT 120	Semiconductor Circuits I	SLO #2 Circuit Analysis Calculations	The student will be able to use various circuit analysis calculations to predict basic circuit operation.	Active	11/12/2013
ECC: ECHT 120	Semiconductor Circuits I	SLO #3 Amplifier Operation	The student will be able to explain the operation of : clippers, clampers, Amplifier Biasing, Input/Output Impedances, Classes of different types of Bipolar Transistor Amplifiers.	Active	11/12/2013
ECC: ECHT 122	Semiconductor Circuits II	SLO #1 Advanced In-Circuit Measurements	The student will make advanced “in-circuit” measurements using Bench and Portable Digital Multimeter (DMM), Oscilloscope, and Voltage Ohm (VOM), Milliamp Meter on Solid-State-Systems	Active	11/12/2013
ECC: ECHT 122	Semiconductor Circuits II	SLO #2 Field Effect Amplifier	Given a schematic diagram of a basic Field Effect Amplifier, the students will be able to assemble, test and measure the circuit for its operational parameters.	Active	11/12/2013
ECC: ECHT 122	Semiconductor Circuits II	SLO #3 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations	Active	11/12/2013
ECC: ECHT 124	Operational Amplifiers and Linear Integrated Circuits	SLO #1 Operational Amplifier	Given a schematic diagram of a basic Operational Amplifier (Op) with negative feedback, the students will be able to assemble, test and measure the circuit for its operational parameters	Active	11/12/2013

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ECC: ECHT 124	Operational Amplifiers and Linear Integrated Circuits	SLO #2 Advanced In-Circuit Measurements	The student will make advanced “in-circuit” measurements using Bench and Portable Digital Multimeter (DMM), Oscilloscope, and Voltage Ohm (VOM), Milliamp Meter, on Advanced Solid-State-Systems.	Active	11/12/2013
ECC: ECHT 124	Operational Amplifiers and Linear Integrated Circuits	SLO #3 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations.	Active	11/12/2013
ECC: ECHT 130	Digital Systems and Computer Logic I	SLO #1 DeMorgan’s Theorem	The student will use DeMorgan’s Theorem to reduce a Boolean Statement in its simplest terms.	Active	11/12/2013
ECC: ECHT 130	Digital Systems and Computer Logic I	SLO #2 Seven Basic Function Gates	The student will use discrete NOR and NAND Gates to construct all seven basic function gates (NOT, OR, NOR, AND, NAND, EXOR, and EXNOR)	Active	11/12/2013
ECC: ECHT 130	Digital Systems and Computer Logic I	SLO #3 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations	Active	11/12/2013
ECC: ECHT 140	Computer Systems and Hardware Technology I	SLO #1 Course Notebook Students	The students will assemble and maintain a five-section course notebook.	Active	11/12/2013
ECC: ECHT 140	Computer Systems and Hardware Technology I	SLO #2 Component Handling Techniques	The student will be able to demonstrate their knowledge in proper component handling techniques, especially regarding (ESD), Electrostatic Discharge.	Active	11/12/2013
ECC: ECHT 140	Computer Systems and Hardware Technology I	SLO #3 Computer Estimate and Configuration	The student will be able to demonstrate their ability to cost out and configure either a Business or “Gaming” Computer per customer specifications.	Active	11/12/2013
ECC: ECHT 142	Computer Systems and Hardware Technologies II	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.	Active	11/12/2013
ECC: ECHT 142	Computer Systems and Hardware Technologies II	SLO #2 Troubleshooting Techniques	The student will be able to demonstrate advanced skill levels in their knowledge of repairing computer systems using system troubleshooting techniques introduced within the scope of the class.	Active	11/12/2013
ECC: ECHT 142	Computer Systems and Hardware Technologies II	SLO #3 OEM Specifications	The student will be able to demonstrate their knowledge in using commercially available diagnostic tools to verify a system meets original equipment manufacturer (OEM) specifications.	Active	11/12/2013
ECC: ECHT 144	CompTIA A+ Certification Preparation for Computer Hardware Systems	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.	Active	11/12/2013
ECC: ECHT 144	CompTIA A+ Certification Preparation for Computer Hardware Systems	SLO #2 CompTIA Industry Certification	The student will acquire a knowledge base to prepare to take the A+ Certification Exam through CompTIA, an industry recognized certification.	Active	11/12/2013
ECC: ECHT 144	CompTIA A+ Certification Preparation for Computer Hardware Systems	SLO #3 Electricity & Electronics	The student will acquire a knowledge in safety and the basics of electricity and electronics, micro-computer hardware and components.	Active	11/12/2013
ECC: ECHT 146	CompTIA Network+ Certification Preparation for Computer Hardware Systems	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.	Active	11/12/2013

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ECC: ECHT 146	CompTIA Network+ Certification Preparation for Computer Hardware Systems	SLO #2 CompTIA Network+ Certification Exam	Students will develop the skills and knowledge required for passing the CompTIA Network+ Certification exam. Topics include set up configuration and troubleshooting of networking hardware devices. Other areas explored include networking topology, cabling, wireless devices, network standards, protocols and security.	Active	11/12/2013
ECC: ECHT 146	CompTIA Network+ Certification Preparation for Computer Hardware Systems	SLO #3 Open Systems Interconnection	Students will demonstrate their knowledge of Open Systems Interconnection (OSI), the seven layers of the OSI model, protocol and data packets, and the standard network model.	Active	11/12/2013
ECC: ECHT 148	CompTIA Security+ Certification Preparation for Computer Hardware Systems	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.	Active	11/12/2013
ECC: ECHT 148	CompTIA Security+ Certification Preparation for Computer Hardware Systems	SLO #2 Information Security	Students will demonstrate their knowledge of information security, system threats and risks, protecting systems, network vulnerabilities, network defenses, wireless network security, security audits and policies, cryptographic methods, and the basics of computer forensics	Active	
ECC: ECHT 148	CompTIA Security+ Certification Preparation for Computer Hardware Systems	SLO #3 Cybersecurity	Students will demonstrate their knowledge of “Chain of Custody” handling procedures of physical evidence in matters of cybersecurity.	Active	11/12/2013
ECC: ECHT 191	Introduction to Microprocessors and Interfacing	SLO #1 Machine Assembly Language	Students will demonstrate their knowledge of fundamentals of machine assembly language	Active	11/12/2013
ECC: ECHT 191	Introduction to Microprocessors and Interfacing	SLO #2 Digital & Analog Interfacing	Students will demonstrate their use of software to simulate hardware and digital and analog interfacing.	Active	11/12/2013
ECC: ECHT 191	Introduction to Microprocessors and Interfacing	SLO #3 Microprocessors and Microcontrollers	Students will demonstrate their knowledge of microprocessors and microcontrollers as they relate to industrial and consumer equipment.	Active	11/12/2013
ECC: ECHT 22	Basic Electronic Fabrication	SLO #1 Tools &Test Equipment	Upon successful completion of this course, students will be able to identify and safely operate/manipulate various types of electronic hand tools and test equipment.	Active	11/12/2013
ECC: ECHT 22	Basic Electronic Fabrication	SLO #2 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations.	Active	11/12/2013
ECC: ECHT 22	Basic Electronic Fabrication	SLO #3 Low Voltage Power Supply	Upon successful completion of this course, students will be able to produce a functional low voltage, direct current (DC) power supply project sample that meets predetermined specifications and which could be potentially mass produced.	Active	11/12/2013