Indiana State University » College of Technology » Dept of Electronics Computer Engineering Technology
BS in Electronics Engineering Technology

Indiana State University

Standing Requirements
Outcomes Library

BS in Electronics Engineering Technology Outcome Set

Program Objective A: Mastery of knowledge and tools

Outcome	Mapping
SLO 1.1: Application of circuit analysis and design	No Mapping
SLO 1.2: Application of circuits, design, and application	No Mapping
SLO 1.3: Application of digital electronics	No Mapping
SLO 1.4: Application of computer programming and software	No Mapping
SLO 1.5: Apply science, math, and engineering tools Students will apply science, math, and engineering tools.	No Mapping
SLO 1.6: Apply PLCs, Robotics, and control system equipment Students will apply PLC's, Robotics, and control system equipment.	No Mapping
SLO 1.7: Engineering materials and manufacturing processes Students will use fluid power, engineering materials and manufacturing processes.	No Mapping
SLO 1.8: Management techniques and processes	No Mapping

Program Objective B: Apply technical knowledge
Students will apply technical knowledge.

Outcome	Mapping
SLO 2.1: Use mathematics in design Students will use mathematics in design.	**Foundational Studies:** IIIa. Quantitative Literacy
SLO 2.2: Modeling for analysis	No Mapping
SLO 2.3: System design	No Mapping

Program Objective C: Experiment and apply results
Students will experiment and apply results.

Outcome	Mapping
SLO 3.1: Conduct experiments Students will conduct experiments.	No Mapping
SLO 3.2: Analysis and interpretation of laboratory exercise	No Mapping
SLO 3.3: Test plans	No Mapping

Program Objective D: Be creative in design and application
Students will be creative in design and application.

Outcome	Mapping

SLO 4.1: Circuit design	No Mapping
SLO 4.2: Software and program development	No Mapping
SLO 4.3: System design and control	No Mapping

Program Objective E: Function effectively in environment
Students will function effectively in the team environment.

Outcome	Mapping
SLO 5.1: Effective team member	No Mapping
SLO 5.2: Understands the purpose of teams Students will understand the purpose of teams.	No Mapping
SLO 5.3: Works and communicates well in the team setting Students will work and communicate well in the team setting.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.

Program Objective F: Effective problem solving

Outcome	Mapping
SLO 6.1: Effectively use problem solving methods Students will effectively use problem solving methods.	**Foundational Studies:** 2. Critically evaluate the ideas of others.
SLO 6.2: Use electrical troubleshooting tools properly Students will use electrical troubleshooting tools properly.	No Mapping
SLO 6.3: Debugs logic and software applications Students will debug logic and software applications successfully.	No Mapping

Program Objective G: Effective communication

Outcome	Mapping
SLO 7.1: Exhibits good verbal communications Students will exhibit good verbal communications.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.
SLO 7.2: Possesses good written communication skills Students will possess good written communication skills.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.
SLO 7.3: Formality and respect in communication Students will understand the need for formality and respect in communication.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.

Program Objective H: Embrace lifelong learning
Students will embrace lifelong learning.

Outcome	Mapping
SLO 8.1: Demonstrates a desire to learn	No Mapping

Program Objective I: Professional responsibilities
Students will understand professional and ethical responsibilities.

Outcome	Mapping
SLO 9.1: Demonstrates professionalism Students will demonstrate professionalism.	No Mapping
SLO 9.2: Understands and exhibits ethics Students will understand and exhibit ethics.	No Mapping
SLO 9.3: Understands the role of professional societies	No Mapping

Students will understand the role of professional societies.

Program Objective J: Diversity and responsibilities

Students will respect diversity and professional responsibilities.

Outcome	Mapping
SLO 10.1: Automated control system marketplace Students will understand the automated control system marketplace.	No Mapping
SLO 10.2: Understands social responsibility Students will understand social responsibility.	No Mapping
SLO 10.3: Safe design practices and operations Students will understand the responsibility of safe design practices and operations.	No Mapping

Program Objective K: Embrace quality

Students will embrace quality.

Outcome	Mapping
SLO 11.1: Understands the breadth of quality concerns Students will understand the breadth of quality concerns.	No Mapping
SLO 11.2: Understands the importance of quality Students will understand the importance of quality.	No Mapping
SLO 11.3: Understands timeliness and continuous improvement Students will understand timeliness and continuous improvement.	No Mapping

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