Standing Requirements

Outcomes Library

BS in Computer Engineering Technlgy Outcome Set

OBJ 1: Problem solving skills

Students will learn problems solving skills.

Outcome	Mapping
Outcome 1.1: Computer systems and networks Students will apply algebra, discrete math, and basic law of physics to build, test, and operate electric circuits, computer systems and networks.	**Foundational Studies:** IIIa. Quantitative Literacy
Outcome 1.2: Computer languages Students will program in low/high-level computer languages to build microcontroller based applications and digital logic circuits.	No Mapping
Outcome 1.3: Technical data management Students will understand database principles and working mechanisms for technical data management.	No Mapping

OBJ 2: Commanding contemporary tools

Students will learn how to command contemporary tools.

Outcome	Mapping
Outcome 2.1: Apply stimulation tools Students will apply simulation tools to verify theoretical design or trouble-shoot potential system problems.	No Mapping
Outcome 2.2: Analze lab data Students will analyze lab data using statistical tools.	No Mapping

OBJ 3: Design skills

Student will learn design skills.

Outcome	Mapping
Outcome 3.1: Control circuitry Students will design microcontroller based control circuitry.	No Mapping
Outcome 3.2: Digital logic circuitry Students will develop digital logic circuitry using FPGA and HDL.	No Mapping
Outcome 3.3: Design and implement LAN Students will design and implement LAN for small business environments.	No Mapping

OBJ 4: Lab skills

Students will learn lab skills.

Outcome	Mapping
Outcome 4.1: Plan experiments Students will plan experiments to collect desired data or	No Mapping

observations.

Outcome 4.2: Conduct experiments Students will conduct experiments to truthfully record results following manual or proposed steps.	No Mapping
Outcome 4.3: Follow saftety procedures Students will follow safety procedure and lab protocols, handle equipments with care.	No Mapping
Outcome 4.4: Examine lab results Students will examine and interpret lab results to draw conclusions.	**Foundational Studies:** IIIa. Quantitative Literacy

OBJ 5: Managerial skills

Students will learn managerial skills.

Outcome	Mapping
Outcome 5.1: Develop work plans Students will develop work plans with clearly defined phased goals and timeline.	No Mapping
Outcome 5.2: Follow work plan Students will follow work plan by observing time line and reporting progress.	No Mapping
Outcome 5.3: Modify schedule Students will modify schedules based on progress.	No Mapping

OBJ 6: Ethics awareness

Students will learn ethics awareness.

Outcome	Mapping
Outcome 6.1: Analyze ethics Students will analyze ethics issues based on professional ethics codes.	No Mapping
Outcome 6.2: Technology impact on society Students will understand technology impact on society.	No Mapping

OBJ 7: Lifelong learning

Students will learn lifelong learning.

Outcome	Mapping
Outcome 7.1: Professional societies Students will get involved with professional societies.	No Mapping
Outcome 7.2: Technological trends Students will research the latest technological trends in a specific area.	No Mapping

OBJ 8: Teamwork skills

Students will learn teamwork skills.

Outcome	Mapping
Outcome 8.1: Individual role and shared duties Students will understand individual role and shared duties.	No Mapping
Outcome 8.2: Respect different opinions Students will listen to others; cooperate with teammates; respect different opinions.	No Mapping

OBJ 9: Communication skills

Students will learn communication skills.

Outcome	Mapping
Outcome 9.1: Produce technical documents Students will produce a technical document that is factually correct, and with good logical structure, proper format, citation, and references.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.
Outcome 9.2: Technical document with minimum errors Students will produce a technical document with a minimum of errors in spelling, punctuation, grammar and usage.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.
Outcome 9.3: Communicate in a professional manner Students will communicate in a professional manner, and respond to questions in language that is both concise and commensurate with audience's background.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.

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