

ABET Outcomes

- 01.1 You will be able to identify and apply appropriate skills and techniques in math, science, engineering, and technology to analyze and solve problems.
- 01.2 You will be able to demonstrate proficiency in the applications of computers, appropriate software, and computer-aided tools, and instrumentation to solve technical problems.
- 01.3 You will be able to demonstrate ability to configure equipment, software, and hardware tools in the development and implementation of intended applications.
- 02.1 You will be able to demonstrate creativity and critical thinking to develop and design systems, components, and processes with specifications that meet design objectives and constraints.
- 02.2 You will be able to demonstrate application of science, mathematics, engineering, and technology to perform design calculations for designing systems, components, or processes.
- 02.3 You will be able to perform analysis or simulation using appropriate computer-aided tools or techniques.
- 02.4 You will be able to demonstrate ability to implement, test, and refine design until specifications and objectives are met or exceeded.
- 02.5 You will be able to analyze and implement appropriate safety procedures for design.
- 02.6 You will be able to demonstrate quality and timeliness in completion of design.
- 03.1 You will be able to solve problems and applying concepts of science, mathematics, engineering, and technology.
- 03.2 You will be proficient in using contemporary techniques, skills, and/or computer-aided tools to solve technical problems.
- 03.3 You will be able to use appropriate resources to locate pertinent information to solve problems.
- 03.4 You will be able to implement the proposed solution and evaluate it using appropriate criteria.
- 04.1 You will be able to formulate, design, assemble, and conduct necessary experiments to investigate problems.
- 04.2 You will be proficient in data collection and use of appropriate statistical and non-statistical tools to analyze and evaluate information from data.
- 04.3 You will be able to analyze and interpret experimental data to develop and test hypothesis for problems.
- 04.4 You will be able to identify and control key elements to control or optimize system components or processes.
- 05.1 You will be able to understand individual and shared responsibilities necessary for effective team performance.
- 05.2 You will be able to demonstrate interpersonal skills necessary to work in a group environment.
- 05.3 You will be willing to examine, adapt, and adopt ideas different from one's own.
- 05.4 You will be able to demonstrate ability to plan tasks, set goals, priorities, and work toward a timely completion.
- 06.1 You will be able to demonstrate ability to write effectively both technical and non-technical materials with appropriate visual materials.
- 06.2 You will be able to effectively communicate verbally with appropriate use of visual aids.
- 06.3 You will be able to communicate and present information electronically including use of appropriate software and multimedia tools.
- 07.1 You will be able to demonstrate knowledge and understanding of the professional code of ethics.

ABET Outcomes

07.2 You will be able to demonstrate ability to recognize and evaluate the ethical dilemmas that may arise in the workplace.

07.3 You will be able to demonstrate the ability to apply professional responsibility and ethics in the workplace.

08.1 You will be able to demonstrate awareness and knowledge of contemporary professional, societal, and global issues.

08.2 You will be able to demonstrate an understanding and the impact of technical and non-technical decisions on global and societal context.

08.3 You will be able to demonstrate understanding and appreciation of diversity as they pertain to professional, societal, and global issues.

09.1 You will be able to recognize the need to locate, gather, and use external resources such as the internet, trade journals, and industry publications for improving systems and processes.

09.2 You will be able to demonstrate initiative to learn new techniques and tools for design and problem solving activities.

09.3 You will be able to recognize ongoing need for participating in professional development activities.