INSTRUCTOR COURSE ASSESSMENT FORM

Course: **Instructor:** **Semester:**

Assign a score on a scale of 0 (lowest) to 5 (highest) on student achievement on specific outcomes identified for this course:

Outcome	Score
Upon completion of this course, students should be able to:	
O.1 Students will be able to utilize the techniques, skills, and modern tools necessary for contemporary engineering technology practice. (a, b)	
O.1.1 Demonstrate ability to identify and apply appropriate skills and techniques in math, science, engineering, and technology to analyze and solve problems.	
O.1.2 Demonstrate proficiency in the applications of computers, appropriate software, and computer aided tools, and instrumentation to solve technical problems.	
O.1.3 Demonstrate ability to configure equipment, software, and hardware tools in the development and implementation of intended applications.	
O.2 Students will be able to apply creativity and critical thinking in the design of systems, components, or processes to meet desired technical, production, safety, or management criteria. (a, b, d, k)	
O.2.1 Demonstrate creativity and critical thinking to develop and design systems, components, and processes with specifications that meet design objectives & constraints.	
O.2.2 Demonstrate application of science, mathematics, engineering, and technology to perform design calculations for designing system, component, or process.	
O.2.3 Perform analysis or simulation using appropriate computer aided tools or techniques.	
O.2.4 Demonstrate ability to implement, test, and refine design until specifications and objectives are met or exceeded.	
O.2.5 Demonstrate ability to analyze and implement appropriate safety procedures for design.	
O.2.6 Demonstrate quality and timeliness in completion of design.	
O.3 Students will be able to identify, analyze, and apply principles and tools of science, mathematics, engineering, and technology to systematically solve discipline related problems. (a, b, c, f)	
O.3.1 Demonstrate ability to solve problems applying concepts of science, mathematics, engineering, and technology.	
O.3.2 Demonstrate proficiency in using contemporary techniques, skills, and/or computer aided tools to solve technical problems.	
O.3.3 Demonstrate skill in using appropriate resources to locate pertinent information to solve problems.	
O.3.4 Demonstrate skill to implement the proposed solution and evaluate it using appropriate criteria.	
O.4 Students will be able to conduct experiments, analyze data, interpret and apply results to solve problems related to optimizing systems and processes. (c, f)	
O.4.1 Demonstrate ability to formulate, design, assemble, and conduct necessary experiments to investigate problems.	
O.4.2 Demonstrate proficiency in data collection and use of appropriate statistical and non-statistical tools to analyze and evaluate information from data.	
O.4.3 Demonstrate ability to analyze and interpret experimental data to develop and test hypothesis for problem.	
O.4.4 Demonstrate ability to identify and control key elements to control or optimize system components or processes.	
O.5 Students will function effectively in team environment and become aware of leadership and group dynamics and issues related to diversity and global community that allows for team productivity. (e, g, j, k)	
O.5.1 Demonstrate an understanding of individual and shared responsibilities necessary for effective team performance.	
O.5.2 Demonstrate interpersonal skills necessary to work in a group environment.	
O.5.3 Demonstrate willing to examine, adapt, and adopt ideas different from one's own.	
O.5.4 Demonstrate ability to plan tasks, set goals, priorities, and work toward a timely completion.	

INSTRUCTOR COURSE ASSESSMENT FORM

Course: **Instructor:** **Semester:**

Assign a score on a scale of 0 (lowest) to 5 (highest) on student achievement on specific outcomes identified for this course:

Outcome	Score
O.6 Students will demonstrate effective communication skills including oral, written, and electronic means. (e, g)	
O.6.1 Demonstrate ability to write effectively both technical and non-technical materials with appropriate visual materials.	
O.6.2 Demonstrate ability to effectively communicate verbally with appropriate use of visual aids.	
O.6.3 Demonstrate ability to communicate and present information electronically including use of appropriate software and multimedia tools.	
O.7 Students will understand the ethical, professional, and social responsibilities associated with the engineering technology practice. (i)	
O.7.1 Demonstrate knowledge and understanding of the professional code of ethics.	
O.7.2 Demonstrate ability to recognize and evaluate the ethical dilemmas that may arise in the workplace.	
O.7.3 Demonstrate ability to apply professional responsibility and ethics in the workplace.	
O.8 Students will demonstrate an understanding of contemporary issues related to diversity, the society and global community. (i, j)	
O.8.1 Demonstrate awareness and knowledge of contemporary professional, societal, and global issues.	
O.8.2 Demonstrate an understanding of the impact of technical and non-technical decisions on global and societal context.	
O.8.3 Demonstrate understanding and appreciation of diversity as they pertain to professional, societal, and global issues.	
O.9 Students will recognize the need for engaging in lifelong learning. (h)	
O.9.1 Demonstrate recognition of the need to locate, gather, and use external resources such as the internet, trade journals, and industry publications for improving systems and processes.	
O.9.2 Demonstrates initiative to learn new techniques and tools for design and problem solving activities.	
O.9.3 Demonstrate recognition of the ongoing need for participating in professional development activities.	

STUDENT COURSE ASSESSMENT FORM

Course: **Instructor:** **Semester:**

Assign a score on a scale of 0 (lowest) to 5 (highest) on student achievement on specific outcomes identified for this course:

Outcome	Score	Student Comments
Upon completion of this course, students should be able to:		
O.1 Students will be able to utilize the techniques, skills, and modern tools necessary for contemporary engineering technology practice. (A,B)		
O.1.1 Demonstrate ability to identify and apply appropriate skills and techniques in math, science, engineering, and technology to analyze and solve problems.		
O.1.2 Demonstrate proficiency in the applications of computers, appropriate software, and computer aided tools, and instrumentation to solve technical problems.		
O.1.3 Demonstrate ability to configure equipment, software, and hardware tools in the development and implementation of intended applications.		
O.2 Students will be able to apply creativity and critical thinking in the design of systems, components, or processes to meet desired technical, production, safety, or management criteria. (A,B,D,K)		
O.2.1 Demonstrate creativity and critical thinking to develop and design systems, components, and processes with specifications that meet design objectives & constraints.		
O.2.2 Demonstrate application of science, mathematics, engineering, and technology to perform design calculations for designing system, component, or process.		
O.2.3 Perform analysis or simulation using appropriate computer aided tools or techniques.		
O.2.4 Demonstrate ability to implement, test, and refine design until specifications and objectives are met or exceeded.		
O.2.5 Ability to analyze and implement appropriate safety procedures for design.		
O.2.6 Demonstrate quality and timeliness in completion of design.		
O.3 Students will be able to identify, analyze, and apply principles and tools of science, mathematics, engineering, and technology to systematically solve discipline related problems. (A,B,C,F)		
O.3.1 Able to solve problems applying concepts of science, mathematics, engineering, and technology.		
O.3.2 Proficient in using contemporary techniques, skills, and/or computer aided tools to solve technical problems.		
O.3.3 Students will use appropriate resources to locate pertinent information to solve problems.		
O.3.4 Implement the proposed solution and evaluate it using appropriate criteria.		

STUDENT COURSE ASSESSMENT FORM

Course: **Instructor:** **Semester:**

Assign a score on a scale of 0 (lowest) to 5 (highest) on student achievement on specific outcomes identified for this course:

Outcome	Score	Student Comments
O.4 Students will be able to conduct experiments, analyze data, interpret and apply results to solve problems related to optimizing systems and processes. (C,F)		
O.4.1 Able to formulate, design, assemble, and conduct necessary experiments to investigate problems.		
O.4.2 Proficient in data collection and use of appropriate statistical and non-statistical tools to analyze and evaluate information from data.		
O.4.3 Able to analyze and interpret experimental data to develop and test hypothesis for problem.		
O.4.4 Able to identify and control key elements to control or optimize system components or processes.		
O.5 Students will function effectively in team environment and become aware of leadership and group dynamics and issues related to diversity and global community that allows for team productivity. (E,G,J,K)		
O.5.1 Understand individual and shared responsibilities necessary for effective team performance.		
O.5.2 Demonstrate interpersonal skills necessary to work in a group environment.		
O.5.3 Willing to examine, adapt, and adopt ideas different from one's own.		
O.5.4 Demonstrate ability to plan tasks, set goals, priorities, and work toward a timely completion.		
O.6 Students will demonstrate effective communication skills including oral, written, and electronic means. (G, E)		
O.6.1 Demonstrate ability to write effectively both technical and non-technical materials with appropriate visual materials.		
O.6.2 Able to effectively communicate verbally with appropriate use of visual aids.		
O.6.3 Able to communicate and present information electronically including use of appropriate software and multimedia tools.		
O.7 Students will understand the ethical, professional, and social responsibilities associated with the engineering technology practice. (I)		
O.7.1 Demonstrate knowledge and understanding of the professional code of ethics.		
O.7.2 Demonstrate ability to recognize and evaluate the ethical dilemmas that may arise in the workplace.		

STUDENT COURSE ASSESSMENT FORM

Course: **Instructor:** **Semester:**

Assign a score on a scale of 0 (lowest) to 5 (highest) on student achievement on specific outcomes identified for this course:

Outcome	Score	Student Comments
O.7.3 Demonstrate ability to apply professional responsibility and ethics in the workplace.		
O.8 Students will demonstrate an understanding of contemporary professional issues related to diversity, the society and global community. (I,J)		
O.8.1 Demonstrate awareness and knowledge of contemporary professional, societal, and global issues.		
O.8.2 Demonstrate an understanding and the impact of technical and non-technical decisions on global and societal context.		
O.8.3 Demonstrate understanding and appreciation of diversity as they pertain to professional, societal, and global issues.		
O.9 Students will recognize the need for engaging in lifelong learning (H).		
O.9.1 Recognizes the need to locate, gather, and use external resources such as the internet, trade journals, and industry publications for improving systems and processes.		
O.9.2 Demonstrates initiative to learn new techniques and tools for design and problem solving activities.		
O.9.3 Recognizing ongoing need for participating in professional development activities.		