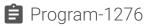
BSEE, Electrical Engineering



Annual Assessment Plan



2 ULO 6A - ABET2

an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

Outcome(s)

1 Choose one or more accreditor outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

Choose one or more Institution outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

Please Enter The Following Information Below:

Measures - Need to name specific course/ required experience plus exact exam items, assignments, rubric lines, etc. used for the analysis of performance on the PLO.

Targets - Percentage of students expected to earn a particular score on the measure.

Timeline - The frequency with which the department will analyze and report student performance on the PLO.

Measures	Targets	Timeline
ENGR 461 - Project report	80% of students score 80% or better	Once every two years, next cyle FY23
	80% of students score 80%	Once every two years, ne

Results - Please enter numeric results, indicating the number and percentage of student performance meeting the target. Record faculty discussion about the strengths and weaknesses in student performance. *Please see the May Development section on the Assessment of Student Learning website for suggestions about how to process assessment results.

ENGR 461—**S21**: (Instructor Observations) Since all three reports obtained a score greater than 80% (in fact all were greater than 90%), the target has been exceeded. On the background and motivation part which addresses aspects of this ABET outcome most explicitly, the groups scored 18/20, 18/20 and 20/20. Since this is the first time I offered this particular project, certain improvements are possible: 1) having the

student groups declare which application they will pursue earlier in the semester, 2) creating a more detailed rubric of expectations, and 3) applying a stricter standard for "considerations of public health, safety and welfare, as well as global, cultural, social, environmental and economic aspects." A peer performance survey may help to determine the relative effort each team member contributed and encourage full participation. (Dept Observations) Even though the assessment passed we feel that the selected artifact would better support the ABET outcome if there were more specific emphasis placed upon the public health, safety and welfare portions of the outcome.

Action Plans - If student performance did not meet the target, identify specific improvement strategies to enact in the upcoming academic year. For example, add instruction on the topic, change an assignment, revise course requirements, revise objectives, identify additional support/resources for students.

ENGR 461—**S21**: Apply a stricter standard for "considerations of public health, safety and welfare, as well as global, cultural, social, environmental and economic aspects.

Closing the Loop - If you entered action plans for the PLO last year, they will appear in the box below. Please explain what you did to accomplish the action plan this year, re-examine student performance, and determine the success of your action plan.

ENGR 461—**S21 Response to Action Plan**: This course was not taught during FY22. Action plan will be addressed when the course is taught Spring 2023.

3 ULO 1A - ABET3

an ability to communicate effectively with a range of audiences

Outcome(s)

Choose one or more accreditor outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

3	Please	Enter	The	Followina	Information	Below:
	I ICGCC		1110	1 Ollowing	IIIIOIIIIGGOII	DCIOTA.

Measures - Need to name specific course/ required experience plus exact exam items, assignments, rubric lines, etc. used for the analysis of performance on the PLO.

Targets - Percentage of students expected to earn a particular score on the measure.

Timeline - The frequency with which the department will analyze and report student performance on the PLO.

- Results Please enter numeric results, indicating the number and percentage of student performance meeting the target. Record faculty discussion about the strengths and weaknesses in student performance. *Please see the May Development section on the Assessment of Student Learning website for suggestions about how to process assessment results.
- Action Plans If student performance did not meet the target, identify specific improvement strategies to enact in the upcoming academic year. For example, add instruction on the topic, change an assignment, revise course requirements, revise objectives, identify additional support/resources for students.
- Closing the Loop If you entered action plans for the PLO last year, they will appear in the box below. Please explain what you did to accomplish the action plan this year, re-examine student performance, and determine the success of your action plan.

4 ULO 6B - ABET4

an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

Outcome(s)

1 Choose one or more accreditor outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

3	Please Ente	er The Followir	ng Information	Below
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Measures - Need to name specific course/ required experience plus exact exam items, assignments, rubric lines, etc. used for the analysis of performance on the PLO.

Targets - Percentage of students expected to earn a particular score on the measure.

Timeline - The frequency with which the department will analyze and report student performance on the PLO.

- Results Please enter numeric results, indicating the number and percentage of student performance meeting the target. Record faculty discussion about the strengths and weaknesses in student performance. *Please see the May Development section on the Assessment of Student Learning website for suggestions about how to process assessment results.
- Action Plans If student performance did not meet the target, identify specific improvement strategies to enact in the upcoming academic year. For example, add instruction on the topic, change an assignment, revise course requirements, revise objectives, identify additional support/resources for students.
- Closing the Loop If you entered action plans for the PLO last year, they will appear in the box below. Please explain what you did to accomplish the action plan this year, re-examine student performance, and determine the success of your action plan.

5 ULO 4B - ABET5

an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

Outcome(s)

Choose one or more accreditor outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

3	Please	Enter	The	Followina	Information	Below:
	I ICGCC		1110	1 Ollowing	IIIIOIIIIGGOII	DCIOTA.

Measures - Need to name specific course/ required experience plus exact exam items, assignments, rubric lines, etc. used for the analysis of performance on the PLO.

Targets - Percentage of students expected to earn a particular score on the measure.

Timeline - The frequency with which the department will analyze and report student performance on the PLO.

- Results Please enter numeric results, indicating the number and percentage of student performance meeting the target. Record faculty discussion about the strengths and weaknesses in student performance. *Please see the May Development section on the Assessment of Student Learning website for suggestions about how to process assessment results.
- Action Plans If student performance did not meet the target, identify specific improvement strategies to enact in the upcoming academic year. For example, add instruction on the topic, change an assignment, revise course requirements, revise objectives, identify additional support/resources for students.
- Closing the Loop If you entered action plans for the PLO last year, they will appear in the box below. Please explain what you did to accomplish the action plan this year, re-examine student performance, and determine the success of your action plan.

6 ULO 4C - ABET6

an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

Outcome(s)

Choose one or more accreditor outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

3	Please Ent	er The	Following	Information	Below
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Measures - Need to name specific course/ required experience plus exact exam items, assignments, rubric lines, etc. used for the analysis of performance on the PLO.

Targets - Percentage of students expected to earn a particular score on the measure.

Timeline - The frequency with which the department will analyze and report student performance on the PLO.

- Results Please enter numeric results, indicating the number and percentage of student performance meeting the target. Record faculty discussion about the strengths and weaknesses in student performance. *Please see the May Development section on the Assessment of Student Learning website for suggestions about how to process assessment results.
- Action Plans If student performance did not meet the target, identify specific improvement strategies to enact in the upcoming academic year. For example, add instruction on the topic, change an assignment, revise course requirements, revise objectives, identify additional support/resources for students.
- Closing the Loop If you entered action plans for the PLO last year, they will appear in the box below. Please explain what you did to accomplish the action plan this year, re-examine student performance, and determine the success of your action plan.

7 ULO 1B - ABET7

an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Outcome(s)

1 Choose one or more accreditor outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

2 Choose one or more Institution outcome that aligns with your Program Learning Outcome.

There is no selected outcome.

3	Please Enter The Following Information Below:
	Measures - Need to name specific course/ required experience plus exact exam items, assignments, rubric lines, etc. used for the analysis of performance on the PLO.
	Targets - Percentage of students expected to earn a particular score on the measure.
	Timeline - The frequency with which the department will analyze and report student performance on the PLO.
4	Results - Please enter numeric results, indicating the number and percentage of student performance meeting the target. Record faculty discussion about the strengths and weaknesses in student performance. *Please see the May Development section on the Assessment of Student Learning website for suggestions about how to process assessment results.
5	Action Plans - If student performance did not meet the target, identify specific improvement strategies to enact in the upcoming academic year. For example, add instruction on the topic, change an assignment, revise course requirements, revise objectives, identify additional support/resources for students.
6	Closing the Loop - If you entered action plans for the PLO last year, they will appear in the box below. Please explain what you did to accomplish the action plan this year, re-examine student performance, and determine the success of your action plan.
student lear results, or if	gram improvement goals: Programs are expected to have at least one action plan to improve rning annually. If you have not yet identified an action plan associated with this year's assessment the department has identified additional issues that require action plans, describe the specific, action plan and its relation to evidence of student performance.
essment l	Rubric
Process	

Assessm

	1	2	3	4
Is the plan being implemented faithfully and revised as needed?	Assessment plan is not implemented.	Most aspects of plan are being implemented or all aspects are implemented to some degree.	Assessment plan is fully implemented.	Plan is faithfully executed and modified/evaluated as needed.

2 Explanations:

3

Engagement

	1	2	3	4
Are all relevant parties are meaningfully involved in the creation/revision, implementation, analysis, interpretation and learning improvement process?	Limited involvement beyond chair/director	All educators contributing to the curriculum are aware of process and results	All educators contributing to the curriculum participate in conversations regarding the use of assessment data to improve student learning	All relevant stakeholders (students, employers, alumni) are meaningfully involved in the creation/revision, implementation, analysis, interpretation, and/or improvement processes associated with this assessment plan.

4 Explanations:

Program Learning Objectives

	1	2	3	4
Are the program learning objectives clear, measurable, aligned with ULOs/GLOs, and representative of the range of learning for that major/program?	PLOs are problematic (vague, abstract, not aligned with ULOs/GLOs) or missing.	PLOs are clear, mostly measurable, partially aligned with ULOs/GLOs.	PLOs are clear, measureable, aligned with ULOs/GLOs, and represent a summary of the knowledge, skills, beliefs, and values that a graduate of this major/program should attain by completing the required curriculum, accounting for variations in learning outcomes due to tracks/concentrations	PLOs are clear, measurable, aligned with ULOs/GLOs, and representative of the range of learning students achieve through completion of the program. The learning objectives provide a comprehensive view of the knowledge, skills, beliefs, and values that are important for a graduate of this major/program and account for variations in learning outcomes due to tracks/concentrations.

6 Explanations:

7

Measures

ī	2	3	4

8 Explanations:

Targets

1	2	3	4

	1	2	3	4
Are the targets based on professional standards and/or analysis of past student work? Are targets challenging and achievable?	Some targets are missing.	Targets are arbitrarily chosen or reflect minimal expectations.	Targets are challenging and achievable based on prior student performance, and reflect an appropriate level of performance.	Targets are challenging and achievable. Targets are based on professional standards and/or prior student performance. Targets are set at a level to inspire program

10 Explanations:



Timeline

	1	2	3	4
Is the timeline for data collection manageable with sufficient data points to effectively inform decision making and program review?	Not identified clearly for all measures.	Clearly states semester/year for each objective/measure. Data analysis delayed from data collection. Time between collection points may not facilitate informed decision making.	Clearly stated and manageable schedule. At least two data points for each objective per review cycle.	Timeline for data collection is manageable and allows for continuous improvement with timely and meaningful decision making even before program review.

12 Explanations:

Action Plan

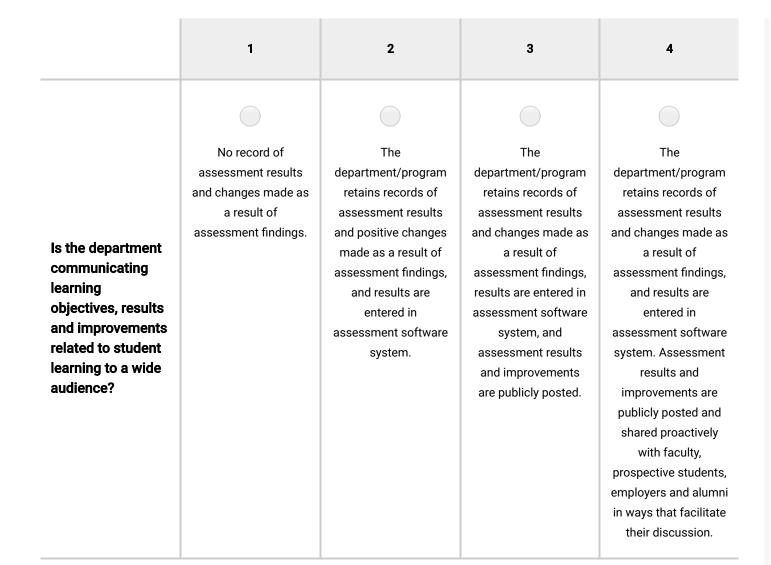
	1	2	3	4
Is the department effectively examining and	Assessment data not collected/analyzed/used for decisions and/or results not documented in AEFIS.	discussed by department. Department reviewed confidence in measures and data as	Data collected, documented and discussed by department. Department and dean confirmed confidence in measures and data	Department collected and discussed follow-up data after the implementation of action plans in order to determine whether changes resulted in
using assessment data to revise curriculum and pedagogy to support student learning?		sufficient indicators of student performance. If data indicated changes were needed, action plans were developed in consultation with dean (e.g. improving outcomes, measures, targets, curriculum or pedagogy).	as sufficient indicators of student performance. Action plans (e.g. improving outcomes, measures, targets, curriculum or pedagogy) developed in consultation with dean. If prior year data warranted action plans, the department implemented the changes.	improvement or whether additional action is necessary. Data confirms effective curriculum and pedagogy for learning outcomes. Score of 4 should be assigned only if objectives, measures, targets and timeline all score a 4.

Explanations:

15

Dissemination

1	2	3	4



16

Explanations:

Additional Feedback

1

Please enter any additional feedback for changes that should be made:

CLOSE AND EXIT