Program Name: BS Mechanical Engineering

Question 1: Program Learning Outcomes					
Q1.1. Which of the following Program Learning Outcomes (PLOs), Sac State Baccalaureate Learning Goals (BLGs), and emboldened Graduate Learning Goals (GLGs) did you assess? [Check all that apply]	Q1.2. Please provide more detaile EACH PLO you checked above how your specific PLOs were exp BLGs/GLGs:	and other information including			
 1. Critical thinking 2. Information literacy 3. Written communication 4. Oral communication 5. Quantitative literacy 6. Inquiry and analysis 7. Creative thinking 8. Reading 9. Team work 10. Problem solving 11. Civic knowledge and engagement 12. Intercultural Knowledge, Competency, and Perspectives 13. Ethical reasoning 14. Foundations and skills for lifelong learning 15. Global learning and Perspectives 16. Integrative and applied learning 17. Overall competencies for GE Knowledge 18. Overall competencies in the major/discipline 19. Professionalism 20. Other, specify any PLOs that were assessed but not included above: a. b. c. 	the University " Overall competencies in the major " and is specifically: <i>An ability to design a system, component, or proces</i> . <i>to meet desired needs within realistic constraints such as</i> <i>economic, environmental, social, political, ethical, health and</i> <i>safety, manufacturability, and sustainability</i>				
Q1.2.1. Do you have rubrics for your PLOs? X 1. Yes, for all PLOs 2. Yes, but for some PLOs 3. No rubrics for PLOs 4. N/A, other (please specify):	Q1.3. Are your PLOs closely aligned with the mission of the university? X 1. Yes 2. No 3. Don't know	Q1.4. Is your program externally accredited (other than through WASC)? X 1. Yes 2. No (Go to Q1.5) 3. Don't know (Go to Q1.5)			

Q1.4.1. If the answer to Q1.4 is yes, are your PLOs closely aligned with the mission/goals/outcomes of the accreditation agency? X 1. Yes 2. No 3. Don't know			Q1.6. Did you use action verbs to make each PLO measurable (See Attachment I)? X 1. Yes 2. No 3. Don't know
IN QUESTIONS 2 THROU			
Question 2: Star Q 2.1. Select ONE(1) PLO here as an example you've conducted assessment (be sure you conducted assesting) 9. Team work 10. Problem solving 11. Civic knowledge and engagement 12. Intercultural Knowledge, Competence Perspectives 13. Ethical reasoning 14. Foundations and skills for lifelong leaded astreation (be sure your (be sure as the sure y	e to illustrate how checked the correct ency, and earning ledge (discipline	Q2.1.1. Please provide specific PLO you've of The specific PLO we as the University "Overall specifically: An ability to to meet desired needs economic, environmen safety, manufacturabil This PLO is one of 11 P which is essential for the The assessment of this we have been receiving	more background information about the hosen in Q2.1: sessed in 2016-17 was closely aligned with competencies in the major" and is to design a system, component, or process within realistic constraints such as tal, social, political, ethical, health and
included above: a. b. c.			

	f performance for this PLO?			
X 1. Yes				
2. No				
3. Don't know				
4. N/A				
Q2.3. Please provide the rubric(s) and standard of performance t	hat you have developed for this PLO here	or in th	e annendi	x.
[Word limit: 300]			e appendi	л.
See Appendix				
Please indicate where you have published the PLO, the standard o	f performance, and	Q2.4	Q2.5	Q2.6
the rubric that measures the PLO:				
			ds of e	
			lards of ance	cs
		ο	andards of rmance	Ibrics
		DLO) Standards of rformance	Rubrics
		(1) PLO	(2) Standards of Performance	(3) Rubrics
1. In SOME course syllabi/assignments in the program that addres	s the PLO	(1) PLO		
 In SOME course syllabi/assignments in the program that addres In ALL course syllabi/assignments in the program that address t 			× (2) Standards of Performance	× (3) Rubrics
2. In ALL course syllabi/assignments in the program that address t		× (1) PLO		
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook 				
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue 				
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue On the academic unit website or in newsletters 	ne PLO	X	X	X
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue On the academic unit website or in newsletters In the assessment or program review reports, plans, resources or program review reports, plans, resources or program review reports, plans, resources or plans,	ne PLO pr activities			
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue On the academic unit website or in newsletters In the assessment or program review reports, plans, resources of In new course proposal forms in the department/college/univer 	ne PLO or activities sity	X X	X X	x
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue On the academic unit website or in newsletters In the assessment or program review reports, plans, resources of In new course proposal forms in the department/college/univer In the department/college/university's strategic plans and other 	ne PLO or activities sity r planning documents	X	X	X
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue On the academic unit website or in newsletters In the assessment or program review reports, plans, resources of In new course proposal forms in the department/college/university's strategic plans and other In the department/college/university's budget plans and other 	ne PLO or activities sity r planning documents	X X	X X	x
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue On the academic unit website or in newsletters In the assessment or program review reports, plans, resources of In new course proposal forms in the department/college/univer In the department/college/university's strategic plans and other In the department/college/university's budget plans and other Other, specify: 	ne PLO or activities sity r planning documents resource allocation documents	X X X X	X X	x
 In ALL course syllabi/assignments in the program that address t In the student handbook/advising handbook In the university catalogue On the academic unit website or in newsletters In the assessment or program review reports, plans, resources of In new course proposal forms in the department/college/university's strategic plans and other In the department/college/university's budget plans and other 	ne PLO or activities sity r planning documents resource allocation documents	X X X X	X X	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/univer 8. In the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: 	ne PLO or activities sity r planning documents resource allocation documents Methods and Evaluation	X X X X	X X	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/univer 8. In the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: 	ne PLO or activities sity r planning documents resource allocation documents Methods and Evaluation the <u>Selected</u> PLO	x x x x	X X 	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: Question 3: Data Collection Data Quality for Q3.1. Was assessment data/evidence collected for the selected 	ne PLO or activities sity r planning documents resource allocation documents Methods and Evaluation the <u>Selected</u> PLO Q3.2. If yes, was the data scored/evalu	x x x x	X X 	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/univers 8. In the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: Question 3: Data Collection Data Quality for Q3.1. Was assessment data/evidence collected for the selected PLO?	ne PLO pr activities sity r planning documents resource allocation documents Methods and Evaluation the <u>Selected</u> PLO Q3.2. If yes, was the data scored/evalu X 1. Yes	x x x x	X X 	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: Question 3: Data Collection Data Quality for Q3.1. Was assessment data/evidence collected for the selected PLO? X 1. Yes	ne PLO or activities sity r planning documents resource allocation documents Methods and Evaluation the <u>Selected</u> PLO Q3.2. If yes, was the data scored/evalu X 1. Yes 2. No (Skip to Q6)	x x x x	X X 	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/univer 8. In the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: Question 3: Data Collection Data Quality for Q3.1. Was assessment data/evidence collected for the selected PLO? X X Yes 2. No (Skip to Q6) 	ne PLO or activities sity resource allocation documents Methods and Evaluation the <u>Selected</u> PLO Q3.2. If yes, was the data scored/evalu X 1. Yes 2. No (Skip to Q6) 3. Don't know (Skip to Q6) 	x x x x	X X 	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: Question 3: Data Collection Data Quality for Q3.1. Was assessment data/evidence collected for the selected PLO? X 1. Yes 2. No (Skip to Q6) 3. Don't know (Skip to Q6) 	ne PLO or activities sity r planning documents resource allocation documents Methods and Evaluation the <u>Selected</u> PLO Q3.2. If yes, was the data scored/evalu X 1. Yes 2. No (Skip to Q6)	x x x x	X X 	x
 2. In ALL course syllabi/assignments in the program that address t 3. In the student handbook/advising handbook 4. In the university catalogue 5. On the academic unit website or in newsletters 6. In the assessment or program review reports, plans, resources of 7. In new course proposal forms in the department/college/univer 8. In the department/college/university's strategic plans and other 9. In the department/college/university's budget plans and other 10. Other, specify: Question 3: Data Collection Data Quality for Q3.1. Was assessment data/evidence collected for the selected PLO? X X Yes 2. No (Skip to Q6) 	ne PLO or activities sity resource allocation documents Methods and Evaluation the <u>Selected</u> PLO Q3.2. If yes, was the data scored/evalu X 1. Yes 2. No (Skip to Q6) 3. Don't know (Skip to Q6) 	x x x x	X X 	x

Q3.1.1. How many assessment tools/metho did you use to assess this PLO? Three	ds/measures in total	for the selected PLO. means were data coll 1. Exams and re 2. Graduating st	be how you collected the assessment data For example, in what course(s) or by what lected (see Attachment II)? [Word limit: 300] ports in ME 138 and ME 190 udent Exit Interviews om Industry Advisory Board
Q3A: Direct Me	easures (key ass	signments, proje	ects, portfolios)
Q3.3. Were direct measures [key assignmen portfolios, course work, student tests, etc.] or PLO? X 1. Yes 2. No (Go to Q3.7) 3. Don't know (Go to Q3.7) Q3.3.2. Please provide the direct measure y data, THEN explain how it assesses the PLO: Exams and project reports from ME 138 and ME ME 138 develops the analytical and design skills r Mechanical Engineers. It is the key junior level coc concepts from all areas are integrated and evaluate Engineering I, is the first term of the Senior Proje BS ME curriculum builds. Evaluation of the skills demonstrate those skills is key to ensuring the gr to enter the workforce after their final semester.	used to assess this ou used to collect 190 required of all ourse in which ated. ME 190, Project ct to which the entire and ability to aduates will be ready	[Check all that apply] X 1. Capstone projectorses, or enditional courses, or enditing and or enditiona courses, or enditional courses, or endits, or	nts from required classes in the program nts from elective classes sed performance assessments such as comprehensive exams, critiques ormance assessments such as internships munity based projects
 Q3.4. How was the data evaluated? [Select o 1. No rubric is used to interpret the evid 2. Used rubric developed/modified by the teaches the class X 3. Used rubric developed/modified by a 4. Used rubric pilot-tested and refined b 5. The VALUE rubric(s) 6. Modified VALUE rubric(s) 7. Used other means (Answer Q3.4.1) 	dence (Go to Q3.4.4) he faculty who group of faculty	measures were used 1. National discip exams 2. General know (e.g., CLA, CA	-
Q3.4.2. Was the rubric aligned directly and explicitly with the PLO? X 1. Yes 2. No 3. Don't know 4. N/A	Q3.4.3. Was the dire assignment, thesis, e and explicitly with th X 1. Yes 2. No 3. Don't know 4. N/A	tc.) aligned directly	Q3.4.4. Was the direct measure (e.g.assignment, thesis, etc.) aligned directlyand explicitly with the PLO?X1. Yes2. No3. Don't know4. N/A
Q3.5. How many faculty members participated in planning the assessment data collection of the selected PLO? Four	Q3.5.1 How many fac participated in planni the assessment data Four	-	Q3.5.2. If the data was evaluated by multiple scorers, was there a norming process (a procedure to make sure everyone was scoring similarly)? 1. Yes 4. N/A X 2. No 3. Don't know

Q3.6. How did you select the sample of stud	lent work [papers,	Q3.6.1. How did you decide how many samples of student work				
projects, portfolios, etc.]? 25 ME 190 projects were evaluated selected rand	domly.	to review? There were approximately 50 projects in ME 190 total for the year- half				
		were selected for evalu	ation.			
Q3.6.2. How many students were in the class or program?	Q3.6.3. How many sa work did you evaluat		Q3.6.4. Was the sample size of student work for the direct measure adequate?			
Approximately 100 in each class each term	25	C:	X 1. Yes			
			2. No 3. Don't know			
Q3B: Indirect M	easures (survey	s, focus groups,	interviews, etc.)			
Q3.7. Were indirect measures used to asses	is the PLO?		following indirect measures were used?			
X 1. Yes 2. No (Skip to Q3.8)		[Check all that apply] 1. National stude	I ent surveys (e.g., NSSE)			
3. Don't know		2. University con	ducted student surveys (e.g. OIR)			
Q3.7.1.1 Please explain and attach the indir	ect measure you		ent surveys or focus groups s, focus groups, or interviews			
used to collect data:			eys, focus groups, or interviews			
Graduating Senior Exit interview		X 6. Advisory board	d surveys, focus groups, or interviews			
Curriculum review by Industry Advisory Group		7. Other, specify				
Q3.7.2 If surveys were used, how was the sa	ample size decided?					
All students were solicited. There is about 80% r	-					
Q3.7.3. If surveys were used, how did you s All students were solicited and all responses wer		Q3.7.4. If surveys we 80%	re used, what was the response rate?			
Q3C: Other Mea	ısures (external	benchmarking,	licensing exams,			
	-	d tests, etc.)				
Q3.8. Were external benchmarking data suc			asures were used? (Check all that apply)			
licensing exams or standardized tests used t assess the PLO?			or state/professional licensure exams ls measures (e.g., CLA, CAAP, ETS PP, etc.)			
1. Yes			dge and skill exams (e.g., ETS, GRE, etc.)			
X 2. No (Go to Q3.8.2)	4. Othe	r, specify:				
3. Don't know						
Q3.8.2. Were other measures used to asses	s the PLO?	U3.8.3. If other meas	ures were used, please specify:			
X 2. No (Go to Q4.1)						

3. Don't know (Go to Q4.1)	
Question 4: Data, Finding	s and Conclusions
Q4.1. Please provide simple tables and/or graphs to summarize the asse [Word limit: 600 for selected PLO]	
Students will demonstrate: PLO c: An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, Q4.2. Are students doing well and meeting program standard? If not, ho the selected PLO?	Findings were 92% demonstrated "mastery" and 8% "proficiency".
Q4.3. For selected PLO, the student performance: X 1. Exceeded expectation/standard 2. Met expectation/standard 3. Partially met expectation/standard 4. Did not meet expectation/standard 5. No expectation or standard has been specified 6. Don't know	
Q4A: Alignment a	nd Quality
Q4.4. Did the data, including the direct measures, from all the different assessment tools/measures/methods directly align with the PLO?	Q4.5. Were ALL the assessment tools/measures/methods that were used good measures for the PLO?
X 1. Yes 2. No 3. Don't know	1. Yes X 2. No 3. Don't know

Question 5: Use of Assessment Data (Closing the Loop)

Q5.1. As a result of this year's assessment effort and based on	Q5.1.1. Please describe <i>what changes</i> you plan to make in your
the prior feedback from OAPA, do you anticipate making any	program as a result of your assessment of this PLO. Include a
changes for your program (e.g., course structure, course	description of how you plan to assess the impact of these
content, or modification of PLOs)?	changes. [Word limit: 300 words]
x 1. Yes	The required Junior level ME 138 – Concurrent Processes and Product
2. No (Go to Q5.2)	Design course will be reworked to better address this PLO and to
3. Don't know (Go to Q5.2)	prepare students more fully for the Product Design (capstone)
Q5.1.2. Do you have a plan to assess the <i>impact of the changes</i>	sequence
that you anticipate making?	The Exit Interview and the Industry Advisory Board review instruments
x 1. Yes	will be evaluated to ensure that they better reflect the expectations
2. No	and provided meaningful evaluations.
3. Don't know	
Q5.2. Since your last assessment report, how have the assessme	ent data from then been used so far? [Check all that apply]

	(1)	(2)	(3)	(4)	(8)
	Very	Quite a	Some	Not at all	N/A
	Much	Bit			
1. Improving specific courses			Х		
2. Modifying curriculum			Х		
3. Improving advising and mentoring				Х	
4. Revising learning outcomes/goals				Х	
5. Revising rubrics and/or expectations				Х	
6. Developing/updating assessment plan				Х	
7. Annual assessment reports			Х		
8. Program review				Х	
9. Prospective student and family information					Х
10. Alumni communication					Х
11. WASC accreditation (regional accreditation)			Х		
12. Program accreditation				Х	
13. External accountability reporting requirement				Х	
14. Trustee/Governing Board deliberations				Х	
15. Strategic planning			Х		
16. Institutional benchmarking				Х	
17. Academic policy development or modification			Х		
18. Institutional Improvement			х		
19. Resource allocation and budgeting				Х	
20. New faculty hiring				х	
21. Professional development for faculty and staff				Х	
22. Recruitment of new students				Х	

23. Other Specify: The University Assessment program is a good tool for most programs that are not held to the discipline specific outside accreditation. For those like Engineering programs, the University assessment adds very little to our work.

Q5.2.1. Please provide a detailed example of how you used the assessment data above.

Q5.3. To what extent did you apply last year's feedback from the Office of Academic Program Assessment in the following areas?

	1. Very Much	2. Quite a Bit	3. Some	4. Not at All	5. N/A
1. Program Learning Outcomes				Х	
2. Standards of Performance				х	
3. Measures				Х	
4. Rubrics				Х	
5. Alignment				Х	
6. Data Collection				Х	
7. Data Analysis and Presentation				Х	
8. Use of Assessment Data				Х	

9. Other, please specify:

Unfortunately with the small faculty and large number of students in the BS ME program, we did not have the resources to use any of the feedback

Q5.3.1.

Please share with us an example of how you applied **last year's feedback** from the Office of Academic Program Assessment in any of the areas above:

Additional Assessment Activities

Q6. Many academic units have collected assessment data on aspects of a program that are not related to PLOs (i.e., impacts of an advising center, etc.). If your program/academic unit has collected data on the program elements, please briefly report your results here. [Word limit: 300]
Q7. What PLO(s) do you plan to assess next year?
1. Critical thinking 2. Information literacy
X 3. Written communication
4. Oral communication
5. Quantitative literacy 6. Inquiry and analysis
7. Creative thinking
8. Reading
X 9. Team work
10. Problem solving
11. Civic knowledge and engagement
12. Intercultural Knowledge, Competency, and
Perspectives
13. Ethical reasoning
14. Foundations and skills for lifelong learning
15. Global learning and Perspectives
16. Integrative and applied learning
17. Overall competencies for GE Knowledge
18. Overall competencies in the major/discipline
19. Professionalism
20. Other, specify any PLOs that were assessed but not included above:
a.
b.
c. Q8. Have you attached any files to this form? If yes, please list every attached file here:
Appendix – Rubric for PLO

Program Infe	orm	nati	on (F	Requi	red)				
Q9. Program/Concentration Name(s): BS in Mechanical Engineering		Q10.1. Department Chair/Program Di Susan L. Holl)irector:			
Q10. Report Authors: Susan L. Holl		Q10).2. Ass	essment	Coordina	ator:			
Q11. Academic unit: Department, Program, or College: Mechanical Engineering			2. Colleg	ge: & Compu	ter Scien	се			
Q13. Fall 2015 enrollment for Academic unit (See <u>Departm</u> <u>Fact Book</u> by the Office of Institutional Research for fall enrollment): 941					major	c.)			
Undergraduate Degree Program(s): Q15. Number of undergraduate degree programs the academic unit has: 1			<i>ster De</i> 5. Numl	gree Pro	gram(s):	,	ograms th	ne acade	mic unit
Q15.1. List all the name(s): BS in Mechanical Engineering		Q16	5.1. List	all the n	ame(s): I	MS in Me	chanical Er	ngineering	5
Q15.2. How many concentrations appear on the diploma for this undergraduate program? none	or			w many c r progran		ations ap	pear on t	he diplo:	ma for
Credential Program(s): Q17. Number of credential programs the academic unit ha Q17.1. List all the names:	ıs: 0	Q18 has	8. Numl : 0	Program per of do all the n	ctorate o	degree pi	rograms 1	he acado	emic unit
								1	1
When was your assessment plan (Please obtain and attach the assessment plan)	J. J. C.	т. ветоге 2011-12	2. 2012-13	3. 2013-14	4. 2014-15	5. 2015-16	6. 2016-17	7. No Plan	8. Do not Know
Q19 developed?	Х								
Q19.1 last updated?						Х			
							1. Yes	2. No	3. Don't Know
Q20. Have you developed a curriculum map for this program? Ple							Х		
Q20.1. Has the program indicated explicitly where the assessmer	nt of s	tudent	learnin	g occurs i	n the curr	iculum?	X		
Q22. Does the program have a capstone class?							X		
Q22.1. Does the program have ANY capstone project?							х	1	1

Appendix

Student Outcome: (c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

Deufermenne	Exemplary	Satisfactory	Developing	Unsatisfactory	Total
Performance	(Outstanding)	(Proficient)	(Apprentice)	(Novice)	N=25
Indicator					
	4	3	2	1	
Define Design Constraints	Constructs a clear and insightful list of design constraints with evidence of all relevant contextual factors. (n=23, 92%)	Describes design constraints with evidence of most relevant contextual factors, and constraints are adequately detailed. (n=2, 8%)	Identifies design constraints with most relevant contextual factors, but description is superficial. (0%)	Identifies a limited number of design constraints or related contextual factors. (0%)	100%
ldentify Design Strategies	Identifies multiple approaches for solving the problem that apply within a specific context. (n=20, 80%)	Identifies multiple approaches for solving the problem, only some of which apply within a specific context. (n=5, 20%)	Identifies only a single approach for solving the problem that does apply within a specific context. (0%)	Identifies one or more approaches for solving the problem that do not apply within a specific context. (0%)	100%
Propose Design Strategy	Proposes one or more strategies that indicate a deep comprehension of the constraints. Solutions are sensitive to contextual factors. (n=25, 100%)	Proposes one or more strategy that indicate comprehension of the design constraints. Strategies are sensitive to contextual factors of the problem.	Proposes one strategy that is generic in nature rather than individually designed to address the specific contextual factors. (0%)	Proposes a design strategy that is difficult to evaluate because it is vague or only indirectly addresses the project constraints. (0%)	100%

Evaluate Design Strategy	Complete analysis of proposed strategy relative to all key design constraints. (n=24, 96%)	(0%) Analysis of proposed strategy fails to adequately address at most one key design constraint.	Analysis of proposed strategy fails to address multiple key design constraints. (0%)	Evaluation is superficial in general or fails to adequately address most of the key design constraints (0%)	100%
		(n=1 <i>,</i> 4%)	(0%) (0%)	(U%)	

Total: 92% Exemplary (Mastery), 8% Proficiency