

# Florida International University

Department of Mechanical and Materials Engineering  
Senior Design Project Report Evaluation Form

Speaker(s): [Project 1] \_\_\_\_\_  
 [Project 2] \_\_\_\_\_  
 [Project 3] \_\_\_\_\_  
 [Project 4] \_\_\_\_\_

Date: \_\_\_\_\_ Note: Up to **four** projects can be evaluated in this form. Please indicate accordingly.

Category (Score Definition – Taxonomy is given on the back: Expert=5, Proficient= 4, Apprentice=3, Novice =2, Non-responsive=1)	Score			
	[Project 1]	[Project 2]	[Project 3]	[Project 4]
<b>A. Intangibles</b>				
1. Professional quality of work; consideration of the impact on society in a global and contemporary context				
2. Effort and enthusiasm for project; adherence to the ethical conduct; exhibiting an understanding of life-long learning				
3. Quality of teamwork				
<b>B. Written Report</b>				
<b>I. Style</b>				
1. Organization, structure, language (cohesiveness, fluidity, terminology, clarity)				
2. Use of visuals: Graphs/charts				
3. Spelling and grammar				
<b>II. Content</b>				
1. Recognition of need / opportunity				
2. Problem formulation a. Project objectives b. Design specifications c. Constraints and other considerations				
3. Solution formulation: Conceptualization and creativity				
4. Feasibility assessment (proposed solution)				
5. Project management: Organization/work breakdown				
6. Engineering analysis and decision-making				
7. Detailed design				
8. Construction				
9. Testing				
10. Evaluation				
11. Cost analysis				
12. Maintenance				
13. Environmental impact				
14. Risk assessment				
15. Appendix material				
<b>Comments:</b>   				

Evaluated by: \_\_\_\_\_ (Please circle one: student/faculty/industrial advisor/other)  
 (Optional)

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Speaker(s): [Project 5] \_\_\_\_\_  
 [Project 6] \_\_\_\_\_  
 [Project 7] \_\_\_\_\_  
 [Project 8] \_\_\_\_\_

Date: \_\_\_\_\_ Note: Up to **four** projects can be evaluated in this form. Please indicate accordingly.

Category (Score Definition – Taxonomy is given on the back: Expert=5, Proficient= 4, Apprentice=3, Novice =2, Non-responsive=1)	Score			
	[Project 5]	[Project 6]	[Project 7]	[Project 8]
<b>A. Intangibles</b>				
1. Professional quality of work; consideration of the impact on society in a global and contemporary context				
2. Effort and enthusiasm for project; adherence to the ethical conduct; exhibiting an understanding of life-long learning				
3. Quality of teamwork				
<b>B. Written Report</b>				
<b>I. Style</b>				
1. Organization, structure, language (cohesiveness, fluidity, terminology, clarity)				
2. Use of visuals: Graphs/charts				
3. Spelling and grammar				
<b>II. Content</b>				
1. Recognition of need / opportunity				
2. Problem formulation a. Project objectives b. Design specifications c. Constraints and other considerations				
3. Solution formulation: Conceptualization and creativity				
4. Feasibility assessment (proposed solution)				
5. Project management: Organization/work breakdown				
6. Engineering analysis and decision-making				
7. Detailed design				
8. Construction				
9. Testing				
10. Evaluation				
11. Cost analysis				
12. Maintenance				
13. Environmental impact				
14. Risk assessment				
15. Appendix material				
<b>Comments:</b>     				

Evaluated by: \_\_\_\_\_ (Please circle one: student/faculty/industrial advisor/other)  
 (Optional)

## Taxonomy for ME design project evaluation

Scale	Performance	Description
5	Expert	Displays creative application of knowledge to fulfill requirements; sufficiently defends and interprets required information
4	Proficient	Adequately applies knowledge of, and analyzes, required information; makes inferences based on supporting evidence
3	Apprentice	Clearly displays understanding through explanations and examples; begins to apply knowledge of this requirement by determining best solutions
2	Novice	Displays knowledge and basic understanding of requirement; identifies and superficially describes required information
1	Non-responsive	Does not appropriately respond to requirement or requested information; no knowledge or understanding indicated