

Capstone Rubric 1: Pitching (10%)

Please submit 1 form for each group

***Required**

1. Email address *

2. Group number (Facilitator Name) *

PO3 : Design/Development of Solutions (CO1)

Ability to design solution for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations

3. PO3-1 : Initial identification of User needs *

Mark only one oval.

0 1 2 3 4 5

Poor Excellent

4. PO3-2 : Initial determination of user requirements *

Mark only one oval.

0 1 2 3 4 5

Poor Excellent

5. PO3-3 : Consideration for public health and safety, cultural, societal and environmental considerations *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO6:CO3: The Engineer and Society

Ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problems (WK7)

6. PO6-1:Context-based reasoning *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO10:CO7: Communication

Ability to communicate effectively to technical and non-technical audiences

7. P10-1 :The group is able to communicate effectively to technical and non-technical audiences *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO11:CO5: Project Management and Finance

Ability to demonstrate knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

8. PO11-1 Project management and finance *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

9. General Comment/s

10. Evaluated by *

11. Evaluation Date *

Example: 7 January 2019

This content is neither created nor endorsed by Google.



Capstone Rubric 2: Peer Review (part1&2, 10%)

Please submit 1 form for each group member (each peer)

***Required**

1. Email address *

2. Your Name (Evaluator)

3. Your Peer Name : *

4. Group Number : *

PO9:CO4: Assessment Item 1 : Contribution

A peer who routinely provides useful ideas when participating in the group and in classroom discussion. A group member who contributes a lot of effort.

5. 1- Contribution *

Mark only one oval.

0 1 2 3 4 5

Disagree Very Strong Agree

PO9:CO4: Assessment Item 2 : Problem Solving

A peer who actively looks for, and suggests, solutions to problems.

6. 2- Problem Solving *

Mark only one oval.

0	1	2	3	4	5		
Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very Strong Agree

PO9:CO4: Assessment Item 3 : Attitude

A peer who never publicly critical of the project or the work of others. Always has a positive attitude about the task(s).

7. 3- Attitude *

Mark only one oval.

0	1	2	3	4	5		
Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very Strong Agree

PO9:CO4: Assessment Item 4 : Focus

A peer who consistently stays focused on the task and what needs to be done. Very self-directed.

8. 4- Focus *

Mark only one oval.

0	1	2	3	4	5		
Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very Strong Agree

PO9:CO4: Assessment Item 5 : Collaboration

A peer who almost always listens to, shares with, and supports the efforts of others. Work well together.

9. 5 - Collaboration *

Mark only one oval.

	0	1	2	3	4	5	
Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very Strong Agree

10. General Comment/s

11. Evaluation Date *

Example: 7 January 2019

This content is neither created nor endorsed by Google.

Google Forms

Capstone Rubric 3: Proposal (10%)

Please submit 1 form for each group

***Required**

1. Email address *

2. Group number (Facilitator Name) *

PO3:CO1: Design/Development of Solutions

Ability to design solution for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations

3. PO3-1 : Content (Document describes the problems, user needs and requirements, and propose design specifications with proper justifications) *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

4. PO3-2 : Technical Correctness (Document presents design specifications using helpful representations rather than over-reliance on textual descriptions.) *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO6:CO3: The Engineer and Society

Ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problems (WK7)

5. PO6-1:Context-based reasoning *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO7:CO2: Environment and Sustainability

Ability to understand and evaluate the sustainability and impact of professional engineering work in the solution of complex engineering problems in societal and environment contexts. (WK7)

6. PO7-1 :Impact understanding and evaluation *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO11:CO5: Project Management and Finance

Ability to demonstrate knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

7. PO11-1: Time Schedule Identification of appropriate project milestones. Time schedule and milestone/goal is established. *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

8. General Comment/s

9. Evaluated by *

10. Evaluation Date *

Example: 7 January 2019

This content is neither created nor endorsed by Google.



Capstone Rubric 4: Minute of Meeting (5%)

Please submit 1 form for each group

***Required**

1. Email address *

2. Group number (Facilitator Name) *

PO9:CO4: Individual and Team Work

Ability to function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings

3. PO9-1 : Role and Responsibilities of members *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

4. PO9-2 : Verification by facilitators *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO11:CO5: Project Management and Finance

Ability to demonstrate knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

5. PO11-1 Agenda of the meeting *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

6. PO11-2 Frequency of meeting *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

7. PO11-3 Attachment to the final report *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

8. General Comment/s

9. Evaluated by *

10. Evaluation Date *

Example: 7 January 2019

This content is neither created nor endorsed by Google.

Google Forms

Capstone Rubric 5: Logbook (15%)

Please submit 1 form for each student

***Required**

1. Email address *

2. Assessment for the following student (Student Name) *

PO3:CO1: Identification of Ideas and Knowledge

Ability to design solution for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations

3. PO3 : Identification of Ideas and Knowlegde *

Mark only one oval.

0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

PO12:CO6: The Engineer and Society

Ability to recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

4. PO12-1:Team Identification - All information about the team members were clearly written at the first page of Logbook. *

Mark only one oval.

0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> Excellent

5. PO12-2 : Media - The book used is a standard, lined with non-removable pages. *

Mark only one oval.

1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> Excellent

6. PO12-3 : Format/Correction - The logbook is reasonably legible *

Mark only one oval.

1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> Excellent

7. PO12-4 : Regular Entries - Written in on a regular basis. *

Mark only one oval.

1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> Excellent

8. PO12-5 : Attendance during meeting with group *

Mark only one oval.

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

9. PO12-6 : Attendance during meeting with facilitator *

Mark only one oval.

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

10. General Comment/s

11. Evaluated by *

12. Evaluation Date *

Example: 7 January 2019

This content is neither created nor endorsed by Google.

Google Forms

Capstone Rubric 6: Individual Presentation (15%)

Please submit 1 form for each student

***Required**

1. Email address *

2. Facilitator Name *

3. Student Name *

4. PO9:CO4: Individual and Teamwork - Ability of providing ideas and contributions to the team members *

Mark only one oval.

0 1 2 3 4 5

Poor Excellent

- 5. PO10:CO7: Communication - Able to describe verbally the different aspects of the project, and of his/her contribution *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

- 6. PO12:CO6: Lifelong learning- Ability of recognising the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

- 7. General Comment/s

- 8. Evaluation Date *

Example: 7 January 2019

Google Forms

Capstone Rubric 7: Demo Presentation (10%)

Please submit 1 form for each student

***Required**

1. Email address *

2. Assessment for Group Number (Facilitator Name): *

3. PO3:CO1: Design and development of Solutions - Design that meets specific needs by considering public and environmental affairs. *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

4. PO3:CO1: Design and development of Solutions - Functionality of the design at the level of: Concept (lowest); Prototype (middle); Product (highest) *

Mark only one oval.

	0	1	2	3	4	5	
Lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highest

5. PO6:CO3: The Engineer and Society - Projects present methodology with the justification of what, why, and how such design is chosen along with data analysis. *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

6. PO9:CO4: Assessment on Individual and teamwork - Ability to work effectively as a member and leader in teams (effort they put into team tasks) in terms of: (i) Ability to lead a team; (ii) Ability to carry out individual responsibilities; (ii) Positive and productive team atmosphere; (iv) Facilitates others' involvement; (v) Credit and Accountability *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

7. P10:CO7: Assessment on Communication - The group is able to communicate effectively to technical and non-technical audiences *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

8. General Comment/s

9. Evaluated by *

10. Evaluation Date *

Example: 7 January 2019

This content is neither created nor endorsed by Google.

Google Forms

Capstone Rubric 8: Final Report (25%)

Please submit 1 form for each student

***Required**

1. Email address *

2. Assessment for Group Number (Facilitator Name): *

3. PO3:CO1: Content - Document explains the design specifications with proper justifications for the design approach chosen. Underlying the choices and the processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

4. PO3:CO1: Technical Correctness - Document presents the validation of the design specifications. Specifications are presented using tables, graphs, and figures where possible (rather than over-reliance upon text). Equations and graphs are used to back up/illustrate the science *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

- 5. PO6:CO3: Social Design Criteria - Document includes the consideration on (i) community and stakeholder needs/requests, (ii) solving community/industry problem, (iii) considers local circumstances and cultures (iv) protects human health and well-being (v) uses inherently safe and benign materials (vi) comply to rules and regulations *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

- 6. PO7:CO2: Environmental Criteria - Document includes the consideration on (i) minimization of natural resource depletion (ii) prevents waste (iii) protects natural ecosystems (iv) uses renewable energy resources (v) Uses inherently safe and benign materials (to environment) (vi) Uses innovative technologies to achieve sustainability *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

- 7. PO7:CO2: Economic Design Criteria - Document includes the consideration on economic impacts of promoting environmental sustainability and social sustainability and cost-effective analysis *

Mark only one oval.

	0	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

8. P10:CO7: Introduction/Background - Introduces basic purpose of the project *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

9. P10:CO7: Conclusion & References - Document summarizes functionalities and includes references for information from other sources *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

10. P10:CO7: Presentation/Organization - Document looks like a professional specification. Ideas flow in a logical manner *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

11. P10:CO7: Format Issues - Document follows the format provided in the template *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

12. P10:CO7: Correctness/Style - Correct spelling, grammar, and punctuation. Style is clear, concise and coherent. Uses passive voice judiciously. *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

13. PO11:CO5: Time Schedule - Identification of appropriate project milestones. Time schedule and milestone/goal is established *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

14. PO11:CO5: Project Requirement - Identification, justification, explanation and use of appropriate project and financial management tools and techniques/approaches. The hardware or software equipment used are clearly listed. Main tasks, difficulties and problems are listed and explained *

Mark only one oval.

0	1	2	3	4	5		
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

15. General Comment/s

16. Evaluated by *

17. Evaluation Date *

Example: 7 January 2019

This content is neither created nor endorsed by Google.

Google Forms