



**University of Puerto Rico, Mayagüez Campus**  
**Electrical and Computer Engineering Department**  
**ICOM 5047 – Design Project in Computer Engineering**

**ORAL TEST "HAPPY HOUR" 1 EVALUATION – DETAILED DESIGN**

Date	
Student's Name	
Team Name	
Project Title	
Module(s) that student designed	

**Documentation (30)**

- No documentation supporting the design (-30)
- Documentation is not appropriate (not completed) (-25)
- There is documentation but it is flawed. Badly designed. (-20)
- Student presents documentation but not in a professional manner (-15)
  - Flowcharts, class diagrams, and any other software or firmware diagrams, as well as hardware schematics must be done using a CAD program. Hand drawn diagrams are not accepted. Must follow standards and conventions.
- If the student is designing software,
  - he/she did not present the use case diagrams (if applicable) (-15)
  - he/she did not present the class diagrams (if applicable) (-15)
  - he/she did not present the sequence diagram (if applicable) (-15)
  - he/she did not define the interfaces (if applicable) (-15)
  - he/she did not show the flowchart (if applicable) (-15)
  - the use case diagrams are inadequate(if applicable) (-10)
  - the class diagrams are inadequate(if applicable) (-10)
  - the interaction diagrams are inadequate(if applicable) (-10)
  - the interfaces are inadequate(if applicable) (-10)
  - the flowchart are inadequate (if applicable) (-10)
  - the ER diagram is missing (if applicable) (-15)
  - the ER diagram is not correct (if applicable) (-10)
- If the student is designing firmware, he/she did not show the flowchart (-15)
- If the student is designing firmware, the flowchart is inadequate (-15)
- If the student is designing hardware,
  - he/she did not present global detailed hardware schematics (-15)
  - he/she did not present detailed module hardware schematics (-15)
  - he/she presented inadequate global detailed hardware schematic (-10)
  - he/she presented inadequate detailed module hardware schematics (-10)

**Specifications (30)**

- The student has not evaluated different alternatives (-15)
- Student's part does not comply with proposal or with approved change requests (student must show evidences) (-30)
- Student's design does not follow proposed standards. (-20)

- Student's design does not follow required standards. (-20)
- Student has not started assembling Hardware without reasonable justification. (-20)
- Student has not started coding Software without reasonable justification. (-20)

### Understanding (25)

- The student does not demonstrate understanding of his/her design (-25)
- The student does not demonstrate understanding of how his/her design integrates with the whole system (-20)
- The student does not demonstrate understanding of the scope of the project (-15)
- The student cannot answer questions demonstrating proficiency in his/her part (-15)
- The student does not show knowledge required for his/her part of the design (-15)
- The student does not describe the problems associated with the design and how he/she solved them (-10)
- The student does not know the power consumption (-10)

### Proactivity (15)

- The student does not know the price or suppliers of his/her part (-15)
- The students has not ordered the parts (if justified, ok) (-10)
- The student has not kept the schedule according to the Gantt chart and there is no valid justification (-10)
- If project manager, he/she has not followed the status of or maintained communication with the group or updated Gantt chart (-10)

### Comments

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### Contribution (Factor\_\_\_\_\_)

- Enough contribution (Multiply the total number of points by 1)
- Some contribution (Multiply the total number of points by 0.7)
- Not enough contribution (Multiply the total amount of points by 0.5)
- Not contribution (Multiply the total of points by 0.0)

**Grade**