**ECE 457 CAPSTONE DESIGN PROJECT – PRELIMINARY DESIGN REVIEW**

**Please grade your teams Preliminary Design Review Report using the attached rubrics. Below is a description of the Objectives of the Preliminary Design Review and Required Formats and Contents for the Report**

**PLEASE complete your grading by Friday December 15**

**Return to me at:**

**pfortier@umassd.edu,**

**or leave in my ECE dept mailbox.**

**THIS IS IMPORTANT AS FIRST SEMESTER GRADES ARE DUE Dec. 21**

**OBJECTIVE**  
The overall objective of the Preliminary Design Review is to assess whether or not your team’s design has matured to the point where they can begin detailed design, coding, and construction. This means:

* + Preliminary Design Addresses All Requirements
  + Risks to Implementing the Design are Understood
  + Components Needed for Design are Defined and Available

**FORMAT AND CONTENT**

The PDR Report must:

* 1) Present the finalized engineering requirements and constraints. Going forward these will be the baseline for the project.
* 2) Describe the preliminary design. Use drawings, schematics, and software documentation as appropriate.
* 3) Show where/ how each requirement is addressed in the preliminary design.
* 4) Identify any requirements that may not be met by the design
* 5) Briefly describe any risks identified that may affect the success of the design (Including any unresolved material, hardware, or software issues)
* 6) Update the material list for the project

**ECE457 Capstone Design**

**Preliminary Design Review REPORT Grading Sheet**

**Team Name Grader**

Team has identified ALL important customer requirements and translated them into quantitative engineering requirements at a level sufficient to perform detailed design

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Excellent | High | Complete | Adequate | Minimal |
| 20 | 15 | 10 | 5 | 0 |

Comments on Strengths or Shortcomings

The team has developed and documented a preliminary design that addresses all requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Excellent | High | Complete | Adequate | Minimal |
| 25 | 15 | 10 | 5 | 0 |

Comments on Strengths or Shortcomings

The team has made sufficient progress performing prototyping, modeling, or analysis to successfully execute the detailed design of the project

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Excellent | High | Complete | Adequate | Minimal |
| 25 | 15 | 10 | 5 | 0 |

Comments on Strengths or Shortcomings

The team has defined validation approaches appropriate to validate each requirement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Excellent | High | Complete | Adequate | Minimal |
| 10 | 8 | 6 | 3 | 0 |

Comments on Strengths or Shortcomings

Team has identified risks associated with the design and understands both their potential impact and has a plan to address, mitigate, or avoid them

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Excellent | High | Complete | Adequate | Minimal |
| 10 | 8 | 6 | 3 | 0 |

Comments on Strengths or Shortcomings

Report was clear, demonstrated understanding of the project and its key design issues, and met content, time, and formatting requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Excellent | High | Complete | Adequate | Minimal |
| 10 | 8 | 6 | 3 | 0 |

Comments on Strengths or Shortcomings

**Do you believe that the team understands project technically and has made sufficient progress to ensure a successful completion of the project. YES** ☐ **NO** ☐

RECOMMENDED GRADE A+ ☐ A ☐ A- ☐ B+ ☐ B ☐ B- ☐ C+ ☐ C ☐