

**ICOM 5047: Computer Engineering Design**  
**INEL 5195: Electrical Engineering Design**  
**Spring 2014**



**Oral Exam Processes**

**Oral Exam 1 (Design completed, individual grading):**

1. An oral exam rubric will be used for the evaluation.
2. All members of the team must be present during the oral exam time. This allows the faculty to cross check answers among students.
3. Other faculty members, experts, or clients may be invited to attend the exam only by the professors teaching the capstone course. TAs, faculty or capstone staff may be present during the exam.
4. PM will present the Gantt chart and a discussion of status of each one of the tasks of the project will be done. All students must clearly state which component of the project are assigned to each student in the group.
5. All design documents must be shown, including software and hardware diagrams and schematics.
6. Individual exam – each student will answer questions in regards to his or her part of the project. Professors will ask questions in regards to the project.
7. The exam will finish when all questions have been answered. Professors will reach a consensus on the grade and provide the grade to the students.

**Oral Exam 2 (All parts must be completed, individual grading):**

1. An oral exam rubric will be used for the evaluation.
2. All members of the team must be present during the oral exam time. This allows the faculty to cross check answers among students.
3. Other faculty members, experts, or clients may be invited to attend the exam only by the professors teaching the capstone course. TAs, faculty or capstone staff may be present during the exam.
4. PM will present the Gantt chart and a discussion of status of each one of the tasks of the project will be done. All students must clearly state which component of the project are assigned to each student in the group.
5. Testing sheets will be presented. Faculty will follow instructions stated in the testing sheets to test individual components.
6. All working parts must be shown, including software and hardware.
7. Software must be residing in repository.
8. Individual exam – each student will answer questions in regards to his or her part of the project. Professors will ask questions in regards to the project.
9. The exam will finish when all questions have been answered. Professors will reach a consensus on the grade and provide the grade to the students.

**Oral Exam 3 (Complete integration, full functionality, in encasing, pass or fail):**

1. A sheet indicating all the elements for the full functionality and technical specifications of the project will be used as evaluation sheet.
2. Each team will have up to four attempts to take the exam. Each failed attempt will cost 25% of the exam grade.
3. All members of the team must be present during the oral exam time. This allows the faculty to cross check answers among students.
4. Other faculty members, experts, or clients may be invited to attend the exam only by the professors teaching the capstone course. TAs, faculty or capstone staff may be present during the exam.
5. PM will present the Gantt chart and a discussion of status of each one of the tasks of the project will be done.
6. Testing sheets will be presented. Faculty will follow instructions stated in the testing sheets to test the system.
7. Software must be residing in repository. All components in final encasing.
8. All working parts must be shown, including software and hardware.
9. All working parts will be shown. This is a pass or fail exam.
10. This is a full prototype test. Conditions similar to the final workload conditions are expected during the third oral exam.

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