Final Presentations

UMass Dartmouth
COLLEGE OF ENGINEERING

- Overview of Presentation Activities
- Poster and Exhibit Setup (*No Longer being performed*)
- General Presentation Guidelines
- Due Dates for Reports, Presentations, and Demos
- Notebooks will NOT be turned in (*All will earn full grade for notebooks*)

Presentation Day Overview
April 30, 2020

UMass Dartmouth
COLLEGE OF ENGINEERING

- Presentations and Demos will be given Through ZOOM and prerecorded videos
- Make sure you know how to use ZOOM
- demo videos should be prerecorded and sent ahead as well as presentation slides to pfortier@umassd.edu
- Presentations/Demos from 8:00 AM Until completed
- Judging Awards TBD (May not be used this year)

Presentation Specifics

UMass Dartmouth
COLLEGE OF ENGINEERING

- Computers
  - YOUR OWN COMPUTER WITH YOUR portion of the PRESENTATION should be ON IT (or on team leads computer)
  - Check out ZOOM Computer Interface Before we start and make sure you know how to use it
- Computer Microphones
  - Speak in a Normal Voice (Volume, Tone, Inflection etc.)
  - Check out your computer Microphones Before we start and make sure you know how to use them

Guidelines for Presentations

UMass Dartmouth
COLLEGE OF ENGINEERING

- **Presentation MUST be ~20 minutes to Allow for questions and next group setup**
  - Make sure all team members have some aspect to present
  - Do Dry Runs to Ensure You ALL Can Meet The Time frame
  - **Do Not Have More Than 10 -12 Charts- You Can't Cover More in 20 mins.**
- **Don't Try to Cover Every Detail on Each Chart !!**
  - Think KEY POINTS and BENEFITS not details (as well as RISKS etc.)
  - Don't Read Charts
- **Pictures, Diagrams, Tables, and Videos** Encouraged (vs. text)
  - Make Sure They Support the Key Points of Your Project.
  - Don't Get Tied Up in Details in Pictures and Diagrams- point out important issues
- Lessons Learned- Teamwork, Task Estimation, Planning, Risks and mitigation, Ethical issues, etc.
- MAKE SURE CHARTS ARE READABLE!! (This means less detail on a chart than we typically use in class)

Final Presentations- Suggested Outline and Timing

UMass Dartmouth
COLLEGE OF ENGINEERING

Time (Min)	Chart Contents	Comments
0:00	Introduction and Overview of Project	Describe the need it addresses, the objective, and what is the impact if successful
1:00	Customer Requirements and Engineering Requirements/ Constraints/ Standards/ethics	Reuse and Update Earlier Material Showing Customer and Engineering Rqmts.
3:00	Functional Overview	Reuse your top-level system diagram(s).
5:00	Alternatives	Summarize Alternatives Considered, Choices made, and Reasons for Choices
6:00	Technical Design	Discuss Key Aspects of Your Design. Highlight Innovations
7:00	Test Plans	Use VCRM and Show Mapping Between Test Cases and Requirements
9:00	Test Results	Summarize Test Results. Discuss Requirements that Were Met and Those That Were Unmet
12:00	Plan and Schedule / Risk mitigation	Show Overall Schedule Only Discuss Planned Hrs vs. Actual Hours and Lessons Learned re Planning. Discuss risk mitigation due to social distancing, etc.
14:00	Summary	Summary and Lessons Learned in Course
15:00	Demonstration	Show Design, Videos, Photos, etc.
20:00	Questions	From Audience

Final Presentation Schedule
April 30 ZOOM Meetings

UMass Dartmouth
COLLEGE OF ENGINEERING

- 8:00 am: ECE 1 – wearable RT injury prevention system
- 9:00 am: ECE 3 – wave height instrumentation
- 10:00 am: ECE 4 – Electronics for side scan sonar
- 11:00 am: ECE 5 – Passenger safety alert system
- 12:00 noon: ECE 6 – TV-auto mute system
- 1:00 pm: ECE 7 – Passive broadband sonar demo SW
- 2:00 pm: ECE 8 – Fabreeka Smart Pad
- 3:00 pm: ECE 9 – Acoustic Awareness Enabler

Judges for Final Presentations

UMass Dartmouth
COLLEGE OF ENGINEERING

Presently TBD

Grading Rubric- Final Presentations

UMass Dartmouth
COLLEGE OF ENGINEERING

ECE 458-- Senior Design Capstone Projects
Final Presentation, April 30 2020

Project Title/Name:_____

Judge Name (See note below): _____

Presentation Style/Quality	**Score**
Presentation: Professional Dress; Clarity of Delivery; Appropriate Verbal and Language Skills; Effective use of Visuals or Demos to support presentation (vs. reading slides)	___/10
Visuals: Slide readability and clarity; effectiveness; correct use of words, punctuation, etc.; appropriate and useful graphical elements and/or demonstrations; appropriate level of detail	___/10
Organization: Followed Suggested Outline; Appropriate Level of Detail	___/10
Q&A: Questions appropriately, clearly, and succinctly answered	___/10
Technical Content	
Project definition: Introduction; customer and project background; customer requirements	___/5
Requirements, Standards, and Constraints: Translation of customer requirements into engineering requirements; awareness of standards and constraints	___/10
Top- Level Design: Presentation of System Functional Diagram; Generation of alternative design solutions; Presentation of Solution	___/10
Detailed Design: Lower level design; understanding of subsytems and interfaces and contribution of each subsystem to requirements satisfaction	___/15
Verification : Overview of Test plan and test results verifying that requirements were met; As applicable, discussion of risks, issues and how they were addressed	___/15
Conclusion: Discussion of issues, unmet requirements, suggestions for future work, and lessons learned about design including actual time spent on tasks vs. estimates.	___/5
TOTAL:	**_____/100**

Note- In addition to the Judges, this form is to be used by the Projects Customer, Faculty Advisors, and Course Coordinator . The Judges Scores will be used to determine 1st, 2nd and 3rd for the presentations. The other scores will be used as input to the final semester grade.

Submission of Final Course Material

UMass Dartmouth
COLLEGE OF ENGINEERING

- **Final Reports, Presentations, and Demo videos Due by 4:00 PM on Tuesday April 29**

- Put Reports and Presentations on the m: drive in Your Project's Folder (let me know if your having issues)

- Notebooks will not be collected this semester

- If you Have Separate Files for Drawings, Code Listings, Results etc. Clearly Label Them so They are Not Overlooked

Return of Equipment

UMass Dartmouth
COLLEGE OF ENGINEERING

- ECE Department Equipment
  - Please return any ECE Equipment or Equipment Purchased by the Department for Your Project to Dr. Ben Viall , Andrew Smart, or Fernanda Botelho (as appropriate) after the final presentation.
- Customer Owned Equipment
  - Equipment Owned or Provided by External/internal Customers is Their Property. Coordinate With Them to Determine Whether They Wish to Retain it, Dispose of it, or Donate it to the University
- Final Reports and Documentation
  - I Will Send Reports and other relevant documents to Customers. Be Sure to Give Them All Material Relevant to Project (This is primarily the hardware/ software built for the project but may include written material that you don't have in the final report)