**228.711 Engineering Practice 6: Capstone Project**

**Mechatronics/ECE/EIM**

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| **Assessment** | **Learning Outcomes assessed** | **Date Due** | **Weighting** |
| Presentation | 1,2,3,4,5,6 | 19 October 2022  (to be confirmed) | 20%  (10% Individual  10% Group modified by ICP) |

### Due date: 19 October 2022 (to be confirmed in Semester 2)

### Percentage: 10% Group (Group modified by ICP) and 10% Individual

### Form:

### Team oral presentation to major stakeholders. The presentation should be up to 20 minutes long and will be followed by questions and answers.

### Purpose:

### To present a clear and succinct overview of the project containing information and recommendations relevant to and in a form that is appropriate for the major stakeholder.

### Content guideline:

### The presentation should contain all information necessary to communicate the key outcomes from the project and to provide confidence in the decision processes that led to these outcomes and resulting recommendations

### Mech/ECE/EIM Final Year Capstone Project

### Assessment Guidelines for Presentation

### (Total 20% of course mark, 10% Individual and 10% Group)

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| **Team Name/Students:** | Assessor: | |
| Assessment Criteria | **Max.**  **Mark** | Marks  **Given** |
| Project DefinitionNeed/ Opportunity Identification and definition of project(Aims, objectives, constraints, scope, current issues/opportunities)  * **Research and analyses**   + (Methods, product/competitor/consumer information, results and implications**)** | 10 |  |
| Final Project Concept/Solution  * The final concept and supporting information demonstrates an appropriate level of commitment and work by the team. * The presentation demonstrates that design decisions for the final concept are supported by the team’s research. * The final concept, and/or recommendations provide adequate grounds for confidence in the success of the project in terms of the initial project outcome and deliverables. * The presentation demonstrates appropriate considerations of prototyping, technology, manufacturing etc.) | 45 |  |
| **Product Design/Technical Specifications**   * The design specifications provide an appropriate basis for further development of the project by the client (can include drawings) * The design specifications are supported by the team’s research. * The team can demonstrate how the final concept meets the specifications (i.e., the solution is verified and validated) | 15 |  |
| **Feasibility of Solution** (   * An appropriate analysis of technical, financial, commercial, sustainability, health & safety or business feasibility of the concept is presented. * Assumptions made are justified. * Logical recommendations are made to the client. * Future strategies are provided for the client. * Project outcomes and outputs summarised | 20 |  |
| **Communication**   * Clarity of communication. * Use of appropriate visual aids * Coherent and consistent message | 10 |  |
| **TOTAL** | 100 |  |

**Comments:**

**Individual Student Presentation Skills (5%) and Contributions through answering questions (5%)**

Where there is good oral presentation practice –i.e., appearance, voice, stance (if presented on campus,), connection with audience and clear and concise answers given to questions showing an in-depth knowledge of the wider project as well as the project outcomes and outputs.

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| Name | Mark (\_/10) | Comments |
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