**Format for Senior Design I Report**

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**Rev A**

1. **Cover page includes Name of your project, “SENIOR DESIGN I REPORT”, May, yyyy”, “GROUP MEMEBRS”, Names of the Team Members, “ADVISORS”, Names of Advisors”, & University Logo**
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7. **Problem Formulation**

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**VII B. Competitive Products**

**VII C. Needs & Wants**

**VII D. Goals & Objectives**

**VII E. Constraints**

**VII F. QFD**

**VII G. Gantt Chart**

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**VIII C. Sub-function I**

**VIII C1. Design Constraints**

**VIII C2. Concept Variants**

**VIII C3. Selection Process & Identifying Winning Selection**

**…..**

**VIII D. Conceptual Design Based on Winning Selections**

**VIII E. 3D Rendering of the Proposed Design, Complete with Dimensional Details**

1. **Design Embodiment**

**IX A. Engineering Analysis**

**IX A1. Identification of Core Engineering Topics & Related Equations**

**IX A2. Engineering Analysis complete with Tables & Graphs**

**IX A3. Software (Algor, Working Model, etc.) Results, if Any**

**IX A4. Preliminary Experimental Data, if Any**

**IX B. Design for Manufacturability**

**IX B1. Preparing Components**

**IX B2. Assembly Process**

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**IX C. Bill of Materials**

**IX C1. Prototype Cost**

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**X A. Updated Design/Drawing, if any**

**X B. Test Protocols**

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**X D. Quality Assurance**

**X E. Safety Issues**

1. **Design History Files (Flash Drive)**

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