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| KING ABDULAZIZ UNIVERSITY | | | | | | | | | | | | |
| FACULTY OF ENGINEERING | | | | | | | | | | | | |
| DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING | | | | | | | | | | | | |
| EE-499 SENIOR DESIGN PROJECT (SDP) | | | | | | | FALL-2021 | | | | | |
| TERM-1 REPORT EVALUATION SHEET (T1R) | | | | | | | | | | | | |
| **Project Title:** | | | **On-Campus Delivery Robot** | | | | | | | | | |
| **Project Advisor:** | | | **Dr. Muhammad Bilal** | | | | | | | | | |
| **Project Customer:** | | | **Dr. Muhammad Bilal** | | | | | | | | | |
| **TEAM No.:** | **03** | | **Project Team Members** | | | | | | | | | |
| **M1** Univ. ID: | **1846525** | | Name: | **Muhannad Saeed Alghamdi** | | | | Specialty: | | | **CoE** | |
| **M2** Univ. ID: | **1845862** | | Name: | **Sulaiman Abdullah Abbas** | | | | Specialty: | | | **CoE** | |
| **M3** Univ. ID: | **1846987** | | Name: | **Wael Rabah Aldhaheri** | | | | Specialty: | | | **BME** | |
| TC: Team Check, MS: Max. Score, SC: Obtained Score | | | | | | | | | **TC** | **MS** | | **SC** |
| 1. **Introduction** | | Relevant information to familiarize with project topic, terminologies, **engineering background**, relevant **physics** and **mathematics** needed to fully understand the problem involved. | | | | | | |  | 5 | |  |
| 1. **Problem Definition** | | A clear, specific, and right to the point statement that leaves no ambiguity in understanding the exact problem at hand. | | | | | | |  | 5 | |  |
| 1. **Objectives** | | Specific targets to achieve at both **strategic** and **technical** levels. | | | | | | |  | 5 | |  |
| 1. **Project Design Specifications (PDS)** | | A description of what a not-yet-designed product is intended to do, ensuring the **customer's needs** and relevant **engineering standards** will be met precisely; accompanied with discrete lists of **musts**, **wants**, **realistic assumptions** and **constraints**. | | | | | | |  | 7 | |  |
| 1. **Literature Review** | | A comprehensive study of the **current technologies** and **existing solutions to the problem** undertaken in the project. | | | | | | |  | 5 | |  |
| 1. **Alternative Designs** | | At least **three essentially different**, well-described (with block diagrams), multi-disciplinary (dominantly electrical engineering) designs satisfying PDS; considering all **standards** and **constraints**. | | | | | | |  | 10 | |  |
| 1. **Selection of Baseline Design** | | One optimum, feasible and doable design chosen with reasonable justifications based on the **analyses of pros and cons** of each solution using one or more suitable evaluation techniques; and how well they satisfy the **musts** and **wants**. | | | | | | |  | 5 | |  |
| 1. **Maturing Baseline Design** | | Efforts of maturing baseline design considering practical issues faced in similar solutions proposed/investigated in the literature. | | | | | | |  | 5 | |  |
| 1. **Block and/or Circuit Diagrams** | | A detailed functional block diagram of the optimum solution along with relevant circuit schematics, flowcharts, and/or technical specifications; proper **description of each block** with appropriate **explanation** and **referencing**. | | | | | | |  | 10 | |  |
| 1. **Analyses of Baseline Design** | | A discussion of technical aspects of the baseline design in view of the **customer needs** and **relevant engineering practices/standards**. | | | | | | |  | 5 | |  |
| 1. **Cost Analysis** | | A thorough cost analysis justifying the economic feasibility. | | | | | | |  | 3 | |  |
| 1. **Preliminary Implementation** | | Efforts to **simulate** and/or **implement** some parts of the project. | | | | | | |  | 10 | |  |
| 1. **Impacts of Proposed Design** | | The expected (whenever relevant; write NA when irrelevant) societal, environmental, economic and other global (health and safety, political, scientific research, religion etc.) impacts of the future product discussed extensively with plenty of citations. | | | | | | |  | 5 | |  |
| 1. **Modern Engineering Tools** | | Used in project design, analysis, modeling and/or simulation. | | | | | | |  | 5 | |  |
| 1. **References** | | A list (written in IEEE standard format) of **reliable** and **credible sources** of information cited in the text. | | | | | | |  | 5 | |  |
| 1. **Report Format** | | Report written according to the prescribed format template (headings, paragraphs, margins, spacing, font sizes, styles, captions, citations, figures and tables etc.). | | | | | | |  | 5 | |  |
| 1. **Plagiarism Check** | | "SafeAssign™" results of submission on BlackBoard™ not exceeding 15% similarity. | | | | | | |  | 5 | |  |
| **Name and Signatures of Evaluator** | |  | | |  | | | |  | **100** | |  |
| **Date** | |  | | |  |  |  | |  |  | |  |

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| **Overall Recommendation** | **Accepted** |  |
| **Accepted with Modifications** |  |
| **Rejected / Resubmission** |  |
| **Required Modifications and/or Suggestions** |  | |