|  |  |
| --- | --- |
| AIUB | **American International University- Bangladesh (AIUB)**  **Faculty of Engineering (FE)**  **Department of Electrical and Electronic Engineering (EEE)** |

**Course Project Report Outline (Microprocessor and Embedded Systems)**

1. **Download the template for report writing from the link given in TEAMS.**
2. **Title, Abstract (at least 150 words but not more than 300 words) and Keywords (3-6 keywords separated by a comma)** [3 marks]
3. **Introduction**

|  |
| --- |
| * 1. Background of Study and Motivation [1 mark] |
| * 1. Project Objectives [1 mark] |
| * 1. A brief Outline of the Report [1 mark] |

1. **Literature Review *(At least 5 project-related published journal papers within the year 2018 to 2022)*** 🡪 [**Part under OBE assessment]** [5 marks]
2. **Methodology and Modeling**

|  |
| --- |
| * 1. Introduction [1 mark] |
| * 1. Working Principle of the Proposed Project [1 mark] |
| * + 1. Process of Work [1 mark] |
| * 1. Description of the Components [1 mark] |
| * 1. Test/Experimental Setup [2 marks] |

1. **Results and Discussions**

|  |
| --- |
| * 1. Simulation/Numerical Analysis [1 mark] |
| * 1. Measured response/Experimental Results [1 mark] |
| * 1. Comparison between Numerical and Experimental Results [1 mark] |
| * 1. Cost Analysis [1 mark] |
| * 1. Limitations in the Project [1 mark] |

1. **Conclusion and Future Endeavors** [2 mark]

**References** [1 mark]

**Appendix (if any, optional)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AIUB | | **American International University- Bangladesh (AIUB)**  **Faculty of Engineering (FE)**  **Department of Electrical and Electronic Engineering (EEE)** | | | |
|  | | |  |  |  | |
| **Course Name:** | | | Microprocessor and Embedded Systems | **Course Code:** | EEE 4103 | |
| **Semester:** | | | Spring 2023-2024 | **Section:** |  | |
| **Faculty Name:** | | |  | | | |
|  | | |  |  |  | |
| **Capstone Project Title:** | | |  | | | |
| **Project Group #:** | | |  | | | |
|  | | |  |  |  | |
| **SL** | **Student Name** | | | **Student ID #** | | |
| **1.** |  | | |  | | |
| **2.** |  | | |  | | |
| **3.** |  | | |  | | |
| **4.** |  | | |  | | |
| **5.** |  | | |  | | |
| **6.** |  | | |  | | |

**Assessment Materials and Marks Allocation:**

|  |  |  |  |
| --- | --- | --- | --- |
| **COs** | **Assessment Materials** | **POIs** | **Marks** |
| **CO3** | Course Project Report ***(Demonstrate a course project using microcontrollers, sensors, actuators, switches, display devices, etc. that can solve a complex engineering problem in the electrical and electronic engineering discipline through appropriate research.)*** | **P.d.1.P3** | **5** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COs** | **Excellent to Proficient**  **[5- 4]** | **Good**  **[3]** | **Acceptable**  **[2]** | **Unacceptable**  **[1]** | **No Response**  **[0]** | **Secured Marks** |
| **CO3**  **P.d.1.P3** | The outcome of the project demonstrates a course project using microcontrollers, sensors, actuators, switches, display devices, etc. that can solve a complex engineering problem in the electrical and electronic engineering discipline through appropriate research. | The outcome of the project somewhat demonstrates a course project using microcontrollers, sensors, actuators, switches, display devices, etc., and also somewhat solves a complex engineering problem in the electrical and electronic engineering discipline through some research. | The outcome of the project demonstrates a course project using microcontrollers, sensors, actuators, switches, display devices, etc. but cannot solve a complex engineering problem properly in the electrical and electronic engineering discipline through appropriate research. | The outcome of the project does not demonstrate a course project using microcontrollers, sensors, actuators, switches, display devices, etc. also could not solve a complex engineering problem in the electrical and electronic engineering discipline through appropriate research. | No Response |  |
| **Comments** |  |  |  |  | **Total Marks (5)** |  |