A picture containing text

Description automatically generated**American International University – Bangladesh**

Faculty of Engineering

Department of EEE & CoE

**MICROPROCESSOR & EMBEDDED SYSTEM PROJECT PROPOSAL FORM**

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| |  | | --- | | **SEMESTER: Fall 2021-2022** | |
| **PROJECT TITLE:** AUTOMATED AIR CONDITION CONTROL SYSTEM BASED ON HUMAN DETECTION USING ARDUINO AND TEMPERATURE SENSOR |
| 1. **Survey to develop process for complex engineering problems considering cultural and societal factors (use pie chart):**  |  | | --- | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **GOALS AND BENEFITS OF PROJECT:**  In this project, the aim is to develop an automated room temperature control system that operates based on human sensor detection and ambient temperature detection. The temperature will be controlled with an air condition system. Due to rising temperature Air Condition systems have become a necessary part of most households. But air conditioners use a massive amount of electricity and can leak potent greenhouse gases into the atmosphere. Which can lead to a further increase in temperature. This project aims to develop a solution that reduces this impact. Many times, it happens that the user forgets to turn off their air conditioner or does not know how to properly operate it. By automating the process, the conditioner will only turn on when there is a human presence in the room and automatically turn off when the room is empty. This will lower the electricity load. And as the room temperature is controlled by sensing the ambient temperature, it lowers the unnecessary use of the system. |
| 1. **PROTOTYPE BLOCK DIAGRAM:**   **Engineering drawing  Description automatically generated with low confidence**  Figure 1: Block Diagram of Automated Air Condition Control System Based on Human Detection Using Arduino and Temperature Sensor |
| 1. **PROJECT TIMELINE:**   Timeline  Description automatically generated  Figure 2: Gantt Chart of Automated Air Condition Control System Based on Human Detection Using Arduino and Temperature Sensor |

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**COMMENTS BY COURSE TEACHER:**

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| **COURSE TEACHER’S NAME** | **COURSE TEACHER’S SIGNATURE** | **DATE** |

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| REMARKS (for OFFICE use only) | |