**American International University – Bangladesh**

Faculty of Engineering

Department of EEE & CoE

**MICROPROCESSOR & EMBEDDED SYSTEM PROJECT PROPOSAL FORM**

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| |  | | --- | | **SEMESTER: Fall 2022-2023** | |
| **PROJECT TITLE: Arduino Based Smart Home System.** |
| **Survey to develop process for complex engineering problems considering cultural and societal factors (use pie chart):**  Chart, pie chart  Description automatically generatedChart, pie chart  Description automatically generated  Chart, bar chart  Description automatically generated  Chart, bar chart  Description automatically generated  Chart, pie chart  Description automatically generated  Chart, pie chart  Description automatically generated |
| **GOALS AND BENEFITS OF PROJECT:**  The main goal of the project is to improve the quality of life and convenience in the home. Other goals are greater security and more efficient use of energy thanks to connected, remote-controllable devices. One of the main objectives of the smart home is to ease daily life by increasing user comfort. It does this by automating typical routines as well as giving homeowners the power to manage their home systems remotely. Some others benefit of the project are 1. Managing all of your home devices from one place 2. Flexibility for new devices and appliances. 3. Maximizing home security. 4. Increased energy efficiency. 5. Improved appliance functionality. 6. Home management insights. 7. Remote control of home functions. |
| **EXPERIMENTAL BLOCK DIAGRAM:** |
| **PROJECT TIMELINE(GANTT CHART):**     |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Activity** | **Start Date** | **End Date** | **Status** | **24-Jun-**  **2021** | **1-July-**  **2021** | **8-July-2021** | **18-July-2021** | **27-July-2021** | **5-Aug-2021** | **15-Aug-2021** | | Topic Selection | 20-Jun2021 | 24-Jun2021 | Completed |  |  |  |  |  |  |  | | Proposal Submission | 1-July2021 | 1-July2021 | Completed |  |  |  |  |  |  |  | | Literature Review  &  Journal reading | 1-July2021 | 8-July2021 | pending |  |  |  |  |  |  |  | | Project Analysis  &  Design | 8-July2021 | 18-July2021 | Pending |  |  |  |  |  |  |  | | Circuit Simulation | 18-July2021 | 27-July2021 | Pending |  |  |  |  |  |  |  | | Writing Project Report | 27-July2021 | 5-Aug2021 | Pending |  |  |  |  |  |  |  | | Project Report  Submission to  Course Teacher | 15-Aug2021 | 15-Aug2021 | pending |  |  |  |  |  |  |  | |
| **REFERENCES:**  1.https://www.researchgate.net/publication/340548191\_Android\_Based\_Smart\_Home\_Automation\_using\_Arduino  2.https://www.elprocus.com/working-of-different-types-of-motion-sensors/ |

**FOR FACULTY USE ONLY**

**COMMENTS BY COURSE TEACHER:**

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

**GROUP MEMBERS**

(Maximum 8 students are permitted to carry out a single Project. However, depending on the capability of the students, 5 number of students may be allowed but not less than that)

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| REMARKS (for OFFICE use only) | |