**American International University – Bangladesh**

Faculty of Engineering

Department of Electrical & Electronic Engineering

**PROJECT & THESIS PROPOSAL FORM**

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| |  |  | | --- | --- | | **SEMESTER OF REGISTRATION: Fall 20-21** | **GROUP#: 07** | |
| PROPOSED TITLE: Gas Leakage Detector and Alert System |
| PROJECT OUTLINE: (200 WORDS MAX.): Proposal definitely should address these points:  (1). **Why do you want to work on this topic** and  (2). **How are you going to accomplish the thesis/project-goal?**  (3). **What is the timeline required to accomplish the thesis/project-goal? (Gantt Chart)** |
| Accidents are on increasing day by day. Here, we are talking about those accidents that are being occurred due to combustible gases, i.e., LPG, CNG. Frequently we hear, explosion in the cylinder of households and vehicles. Several people have been injured and some got dead. So we are making this project for security purposes that will detect combustible gases and alert candidates. When it senses any combustion gases it will alert the user via audio or visual indications. In this paper, we are reviewing the use of LPG Gas leakage detector using an MQ2 sensor. This sensor is designed to detect LPG, i-butane, propane, methane, alcohol, hydrogen, and smoke. As we are completing our semester online so we won't be able to do any hardware circuitry design. So we decided to use proteus simulation with the code or flow chart to complete our project. Besides the sensor, we will use some led light, display, and audio device. The complexity of this project will be the coding/flow chart designing and the circuitry design. We will need to know the working principles of every component very well and have sound knowledge in proteus. |

**SUPERVISOR’S NAME SUPERVISOR’S SIGNATURE DATE**

**Group 7 28/12/20**

**PROJECT & THESIS COMMITTEE NAME & SIGNATURE DATE**

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| **Task** | **Status** | **Nov-3** | **Nov 3 - Nov 10** | **Nov 10 – Nov 15** | **Nov 15 – Nov 21** | **Nov 21 – Nov 24** | **Nov 24 – Nov 28** | **Nov 28 – Dec 02** | **Dec 02 – Dec 08** | **Dec 08 – Dec 19** |  |  | **Dec 19 – Dec 28** |  |
| **Topic**  **Selection** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Preparing Proposal reports &**  **Submission** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Journal reading** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Optimizing**  **Circuit through simulation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Writing project report** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Component collection** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Implementation of Circuits** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Writing a project presentation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Submission of project report to Course Teacher** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Preparation for final presentation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**GROUP MEMBERS**

(Maximum FOUR students are permitted to carry out a single Project/Thesis. However, depending on the capability of the students, less number of students may be allowed)

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| **NAME**: Mokabbera Billah  **ID:** 18-37480-1  **PROGRAM:** EEE  **ADDRESS:** Block C; Basundhara Residential Area  **EMAIL:** billahmokabbera@gmail.com  **CELL/TELEPHONE NO: 01717713526**  **SIGNATURE:** Billah. | **NAME**: Shahriyar Shazib  **ID**: 18-36610-1  **PROGRAM:** CSE  **ADDRESS:** Gazipur Dhaka  **EMAIL:** [shazib.shahriyar@gmail.com](mailto:shazib.shahriyar@gmail.com)  **CELL/TELEPHONE NO:** 01956424568  **SIGNATURE:** Shahriyar |
| **NAME**: MD Nayeem Reza Sopnil  **ID**: 18-36267-1  **PROGRAM: EEE**  **ADDRESS:** Kuril, Dhaka  **EMAIL:** [nayeemreza10@gmail.com](mailto:nayeemreza10@gmail.com)  **CELL/TELEPHONE NO:** 01719770807  **SIGNATURE:** Sopnil | **NAME**: Antor, Hamid Ahmed  **ID**: 18-36061-1  **PROGRAM:** CSE  **ADDRESS:** Mohammadpur, Dhaka  **EMAIL:** [ahmedantorhamid@gmail.com](mailto:ahmedantorhamid@gmail.com)  **CELL/TELEPHONE NO:** 01954474993  **SIGNATURE:** Hamid |
| **NAME**: Avishek Saha  **ID**:18-36064-1  **PROGRAM:** CSE  **ADDRESS: Chadpur,Chattogram**  **EMAIL: avisheksaha123@gmail.com**  **CELL/TELEPHONE NO: 01685141012**  **SIGNATURE: Avishek** | **NAME**: MD Abdus Sobhan  **ID**: 18-37855-2  **PROGRAM:** CSE  **ADDRESS: Gabtoli,Bogura**  **EMAIL: masobhan.07@gmail.com**  **CELL/TELEPHONE NO: 01795644511**  **SIGNATURE: Sobhan** |
| REMARKS (for OFFICE use only) | |