|  |  |  |  |
| --- | --- | --- | --- |
| **Title:** | Indoor Air Quality Monitoring and Automatic Ventilation System | | |
| **Author(s) Name:** | Sheikh, Protik & Hossan, Md. Tanvir & Alam, Sadman & Shufian, Abu | | |
| **Contact Email(s):** | protik@aiub.edu | | |
| **Published Journal Name:** | International Journal of Research Publication and Reviews (IJRPR) | | |
| **Type of Publication:** | Journal | | |
| **Volume:** | 5 | Issue | 3 |
| **Publisher:** | International Journal of Research Publication and Reviews | | |
| **Publication Date:** | 11th March 2024 | | |
| **ISSN:** | 2582-7421 | | |
| **DOI:** | https://doi.org/10.55248/gengpi.5.0324.0718 | | |
| **URL:** | https://www.ijrpr.com/archive.php?volume=5&issue=3 | | |
| **Other Related Info.:** | Page 1814-1823 | | |
|  | | | |

|  |  |
| --- | --- |
| **Abstract:** |  |
| Arduino is a versatile and cheap device that can be used to perform various tasks. Arduino with its IDE is widely used to reliably automate different tasks. In this project an Arduino will be used in conjunction with a gas sensing module to monitor air quality in an enclosed space and take actions to prevent accumulation of gases if necessary. The gas sensor will be used to detect the concentration of any combustible or harmful gases and an Arduino will be programmed to automatically check the concentration. If higher than safe concentration of toxic and combustible gases is detected, a system will audibly and visually warn the inhabitants while actively preventing the accumulation of gas by venting the space through ventilation ducts and closing any supply valve if present. | |