

Air Quality Monitoring System

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Abstract: The Air Quality Monitoring System (AQMS) is a technological solution designed to continuously measure and assess air quality in a given environment. It is a crucial aspect of ensuring the health and well-being of individuals within any environment, particularly in densely populated areas like colleges and universities. The air quality in educational institutions can be affected by various factors such as industrial emissions, vehicular pollution, and natural environmental conditions. Implementing an air quality monitoring system helps identify pollutants, track changes over time, and develop strategies to improve air quality, promoting a safer and healthier environment for students, staff, and visitors. The primary aim of the AQMS is to provide real-time, accurate data that can be used for environmental monitoring, regulatory compliance, and public health management.

Keywords: Air Quality Monitoring, AQI (Air Quality Index), Environmental Monitoring, Real-Time Monitoring, Pollution Control

