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**AMITY SCHOOL OF ENGINEERING & TECHNOLOGY**

**Synopsis**

**Student Name:** Sanjana

**Enrolment Number:** A2305220739

**Programme:** B.Tech (CSE)

**Section:** 9

**Faculty Guide:** Mr. Kunal Gupta

**Project Title:** Pollution detection using image processing

**Topic/Problem:**

**Objective(s):**

This project helps in monitoring air pollution using image processing method, which is also an inexpensive method

**Description:**

**Proposed Methodology:**

The project is based on theory of difference in scattering of different wavelength colors when pollutants are present in the environment.

**Resources Required:**

**Work schedule (in consultation with faculty guide):**

**References**

**Date: Signature of Guide:**

Topic : Pollution Detection using Image Processing

Project Objective : To detect air pollution using image processing method in a digital image

Methodology to be adopted : It is based on theory of difference in scattering of different wavelength colors when pollutants are present in the environment. Since shorter wavelength are scattered first, blue wave will be scattered whereas there will less alteration observed in red and green pixels

Brief Summary of the project : Air pollution in a major problem in today’s world. With all damages it brigs to health and environment it is important to notice this issue. Here we used difference in visibility that is caused when light interacts with a pollutant particle. With the difference we detect the presence of pollution in an image