**Weekly Progress Report (WPR)**

Domain of Engineering and Technology

**Amity School of Engineering and Technology**

 Week: 3 Duration: 13/06/2022 to 19/06/2022

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| **To be filled by Student** | |
| Name of Student: | Sanjana |
| Enrolment No. | A2305220739 |
| Programme & Semester | B.Tech (4CSE) |
| Project Title finalized, if Yes, give name, if No, give reason(s) | Pollution detection using image processing |
| Synopsis submitted | yes |
| Literature review | nil |
| Technical & Economical Feasibility | yes |
| Bill of Material | nil |
| Project Progress Schedule (PERT Chart) | Week 1-knowing about image processing and platforms to implement it  Week 2- knowing about methodology  Week 3-implementing code for calculation  Week 4-Adding GUI for program |
| Design of critical components | yes |
| Fabrication work (give %) | 7% |
| Experimental work (give %) | 85% |
| Result and Analysis | Precision in observing variation in colour pixels can be identified using Haar wavelet method. Furthermore, we can represent an image using Histogram graphical representation. |
| Report writing | nil |
| Signature of student |  |
| Work done in this week: | Updated code in visual studio. Found about histogram, wavelet transform and methodology to be adopted for finding polluted image. Implemented a bit of gui for the program. |

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| **To be filled by Guide (strike off whichever is not applicable)** |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student |
| Student was not well |
| **Date: Signature of Guide** |