

Smart Dust-Bin for Waste segregation

T John Institute of Technology/ 1st SEM/

PROBLEM STATEMENT

Waste segregation has always been a challenge to tackle right from the source to its transportation. What methods can we use so as to prevent wet waste being mixed with dry waste.

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INTRODUCTION

People usually dump garbage on streets rather than dumping it in the garbage truck. Garbage starts to produce a foul smell after a certain period of time, and also it forms bacteria which might be the reason for several illnesses. Our society and all living organisms are facing this problem and also the upcoming generation might face this problem if we don't find the solution.





IDEA GENERATION

It is a known fact that segregation of waste is a big challenge, even if segregation happens at the source, it will eventually mix during the process further, so we came up with a device that prevents this from happening.

The idea is to have our device installed on the dump-trucks with compartments for dry and wet waste respectively.

Two dustbins of different colours will be used to store dry and wet waste respectively.

There will be a colour sensor which detects the colour of the bucket and based on the input one of the compartments will open.

This reduces the chance of any stray plastics getting into the dump-trucks also the segregated waste is not combined.

PROTOTYPE IMAGES

