

## Best Innovative Projects-EE department

**Session: 2019-20**

Sr. No	Name of the Student	Name of Guide	Project Title	Brief Description
1	Ponam Gupta	Dr. Abhishek Mishra	Solid Waste Sorting System	<p>As increase in the population the waste material management has become the major problem to the society and country. People just throw waste material here and there which leads to the increase in the pollution and makes our surrounding dirty. The automatic waste segregation is the one solution to reduce the solid waste pollution control and waste management. This also help in the saving the resources which help in preserve the environment and provide healthy and safe society. In the system there are energy saving feature and measurement feature are installed so the it will not only help in the maintain the solid waste but also help in these field. In the system there are three main smart proximity sensor, servomotor and microcontroller are used. These proximity sensor are inductive sensor to detect metal waste and segregate the metal in the particular bin. Glass sensor is for sense the glass waste and segregates the glass waste in the particular bin with the help of the servomotor in their respective bin. The last one is the capacitive sensor which is used to detect the insulating material such as the plastic, paper and other. If none of the sensor able to identify any of these three solid waste then the object to fall in the last bin. There is the IR sensor setup which will installed the system whenever the object is identify in the initial container and trigger the system with the single relay module and switch off the system whenever there is no object found in the initial container. There is another IR sensor and microcontroller setup is installed for count the number of the object segregated.</p>
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