ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada, Approved by AICTE, New Delhi

Recognized by UGC Under Section (2f) and 12(B) of UGC Act 1956

Aditya Nagar, ADB Road, Surampalem,533437

Department of Mechanical Engineering

Project Title:	Fabrication of Shredder	
Guide Name:	Miss R Gayathri Devi	
Students Name with Roll No.:	14P35A0324	B Veera Manikanta
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Abstract	PO's Mapping	PSO's Mapping
The waste plastic materials can be recycled by making them into small granules. These granules are made by using shredding machine. The machine consists of blades hopper, gearbox and motor .The motor is connected to blades through shaft and shaft having octagonal section to hold and twist the blades and blades are made by steel to withstand crushing forces. The hoper is placed over the shredding machine to guide the plastic waste.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10 PO11, PO 12	PSO1, PSO2, PSO3

PO1: Engineering Knowledge	**PO5:** Modern Tool usage	**PO9:** Individual & Team Work
PO2: Problem Analysis	**PO6:** Engineer & Society	**PO10:** Communication Skills
PO3: Design & Development of solutions	**PO7:** Environment & Sustainability	**PO11:** Project Management & Finance
PO4: Investigations on complex problems	**PO8:** Ethics	**PO12:** Life Long Learning
PSO1: Mechanical Engineers must be able to analyze, design and evaluate mechanical components and systems using cutting-edge software tools as required by the industries from time to time.	**PSO2:** The ability to work in manufacturing and other sectors' operations and maintenance plants	**PSO3:** As part of a team or individually, plan and manage activities in micro, small, medium and large enterprises

Relevance to PO's and PSO's

PO1	Applied the subject knowledge in calculation for design and systems
PO2	Studied and problem identified after thorough analysis
PO3	Nature of the problem is to develop solution for agriculture problems
PO4	In the Calculation part of shredder for different analysis are considered
PO5	Applied the modern tool of Solid works with ANSIS
PO6	The machine is used for the development of society
PO7	This project will not associate with pollution.
PO8	The project work is done with the guidance of teaching community, and from educational institute. No financial and no re copy of technology.
PO9	There is 5 members in this project group, all students are shared some part of work and remaining work done as team members. With coordination as well as with good communication and co-operation
PO 10	All the group members are presented seminar in the presence of project committee and project external examiner.
PO11	The project is completed in phase wise with step by step
PO12	There is a scope of new technology and new application tools so there is a large scope for future developments, so students should learn continuously.
PSO1	Design and Analysed the complete machine using modern tool
PSO2	Students followed the international standards so that they are aware of manufacturing and maintanance
PSO3	There is 5 members in this project group, all students are shared some part of work equally and remaining work done as team members. With coordination as a team membets.