

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:	Design and Fabrication of Solar Grass Cutter		
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Abstract	PO's Mapping	PSO's Mapping
A Solar grass cutter is a machine that uses sliding blades to cut a lawn at an even length. Even more sophisticated devices are there in every field. Power consumption becomes essential for future. Solar grass cutter is a very useful device which is very simple in construction. It is used to maintain and upkeep lawns in gardens, schools, college's etc. We have made some changes in the existing machine to make its application easier at reduced cost. Our main aim in pollution control is attained through this. Unskilled operation can operate easily and maintain the lawn very fine and uniform surface look. In our project, —Solar grass cutter is used to cut the different grasses for the different application.	PO1, PO2, PO3, PO4, PO5, PO6, PO7,PO8 PO9,P010 PO11,PO12	PSO1, PSO2, PSO3

Relevance	to	PO	's	and	PS(	)'s
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PO1	Applied the subject knowledge in calculation for
PO2	Studied and analysed existing designs of SGC
PO3	Structure of the frame is designed under simula
PO4	students will be able to find a feasible solution
PO5	Solid works and Ansys workbench tools are us
PO6	Design and development of SGC
<b>PO7</b>	students will be able to finds solutions for envir
<b>PO8</b>	students will be able to apply ethical principles
<b>PO9</b>	Fabrication of the SGC is done by the team col
PO10	students will be able to communicate their wor
PO11	students will be able to manage the financial co
P012	students will be able to apply the analyzing ski
PSO1	Students will be able to implement the applicat
	statement.
PSO2	Maintenance of the SGC is done.
PSO3	Entrepreneur skills attained





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

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