

## 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 Workshop Trolley"		
Guide Name:	Dr.T.Srihari		
	16P31A0314	G.V.V.N.SIVA	
	16P31A0306	B.GANGARAM	
Students Name with Roll No.:	16P31A0320	K.RAJESH	
	16P31A0380	J.H.S.S.PRASAD	
	16P31A0379	J.S.VARMA	

MappingMappingTrolley is the device used for carrying load or to transport the materialfrom one point to another. For different types of application varioustypes of trollies are available in the market. Depending upon the	Abstract PC	PSO's
Trolley is the device used for carrying load or to transport the material from one point to another. For different types of application various types of trollies are available in the market. Depending upon the	M	Mapping
specific use the one will select the trolley, but it is limited to do a specific work. To overcome this problem, a new trolley was designed which could be used for multi-purpose. There are many types of trolley available in the market for various fields like airport, shopping malls, industries, hospitals etc. to carry the heavy or light loads. This paper contains the development of trolley, which includes design on the basis of creativity skills and fabrication, which can be used for more than one type of task. The trolley designed is the integration of airport trolley and shopping mall trolley. One more advantageous feature added to the design was a motorized wheel which reduces the human effort for	Iter Matrix Matr	PSO2, PSO3

PO1: Engineering Knowledge	<b>PO5:</b> Modern Tool usag e	PO9: Individual & Team
		Work
<b>PO2:</b> 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
PSO1, PSO2, PSO3	PO8: Ethics	PO12: Life Long Learning
<b>PSO1:</b> Mechanical Engineers must be	<b>PSO2:</b> The ability to	<b>PSO3:</b> As part of a team or
able to analyze, design and evaluate	work in manufacturing	individually, plan and manage
mechanical components and systems	and other sectors'	activities in micro, small,
using cutting-edge software tools as	operations and	medium and large enterprises
required by the industries from time to	maintenance plants	
time.		

## **Relevance to PO's and PSO's**

PO1	Applied the subject knowledge the trolley
PO2	Analysis of base of the workshop trolley
PO4	Calculation wheel radius and dimensions of the
PO6	This trolley used to carry the goods in various a
	market.
PO9	Fabrication of workshop trolley is done with te
PO10	Students able to present their work through pre their communication skills
PO11	Managing of costs and achieving better results
PSO2	Students are aware about manufacturing proces
PSO3	Students able to get plan and manage of activititities trolley



## e base part of the work shop trolley area such as, railway platform, industries and

eam work

esentation and documentation which enhance

sses that are involved

ties involved in fabrication of workshop