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 & Fabrication of Hydraulic Lift Pallet Truck	
Guide Name:	Miss R Gayathri Devi	
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Abstract	PO's Mapping	PSO's Mapping
A hydraulic lift pallet truck is mechanical device and applications for lifting of the loads to a height or level. A lift table is defined as a scissor lift used to stack, raise or lower, convey and or transfer material between two or more elevations A hydraulic lift provides most economic dependable & versatile methods of lifting loads, it has few moving parts which may only require lubrication. This lift table raises load smoothly to the desired height. The hydraulic lift can be used in combination with any of applications such as hydraulic, mechanical, etc., A hydraulic jack (or) hydraulic lift pallet truck is a device used to lift heavy loads. The device itself is light, compact and portable, but is capable of exerting great force. It is a material handling device which uses a hydraulic cylinder to lift and lower objects by applying relatively smaller effort compared to the weight of the ok to be lifted, its working is based on Pascal's law. The main aim of this project is to design & fabricate a hydraulic lift pallet truck which operates efficiently & consistently and it should be compact and cost effective	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 industrial problems
PO4	In the Calculation part of hydraulic lift different analysis are considered
PO5	Applied the modern tool of CATIA V5
PO6	The machine is used in the development of society
PO7	This project need to consider environmental 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 maintenance
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.