



Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem – 533437

Department of Mechanical Engineering

Academic Year: 2020-2021

Project Title:	Experimental investigation on CNG as a Fuel in Two Wheeler.	
Guide Name:	Mr. R.Prasad	
Students Name with Roll No.:	18P35A0320	Dama satheesh
	18P35A0326	Ganiseti subrahmanyam
	18P35A0329	Gorakapudi saichakradhar
	17P31A0303	Alluri jayavenkata rajesh reddy
	18P35A0311	Budatha surya varma

Abstract	PO's Mapping	PSO's Mapping
The climate change has seriously impacted on the environment of the human beings. Through , most of the climate warming that has occurred has been caused by human activities, in particular the burning of fossil fuels that generate the green house gas emissions. However, in urban areas the transport sector is one of most important causes of the high levels of atmospheric pollution: greenhouse gas and fine particulate matter emitted by the gasoline and diesel engines. The introduction of alternative fuel in the transport sector which is less pollutant, economically more affordable and more available is an alternative quite interesting to reduce air pollution while allowing economic and social development.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12	PSO1, PSO2, PSO3

Using Compressed Natural Gas 'CNG' for vehicle is an alternative which is environmentally friendly as well as economically and energetically interesting. It is also in accordance with the world energy tendency which sustains the future use of gaseous fuels that are subscribed in the decarbonization process of the energetic systems (reducing the fuels carbon content). In this item, an overview of the automobile fleet will be exposed. And the economic, energetic and environmental matters of the introduction of the CNG as fuel in the transport sector will be discussed.		
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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	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



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using cutting-edge software tools as required by the industries from time to time.		
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Relevance to PO's and PSO's

PO1	Applied the subject knowledge in calculation for design and CNG systems
PO2	Studied and analysed existing designs of CNG systems
PO3	Design and development of solution for CNG systems
PO4	Calculation of engine power based on CNG gas as a fuel
PO5	Various advanced toolkits are used in assembling and disassembling of components.
PO6	By using CNG gas health and safety measures are controlled.
PO7	This project helps in reduction of pollution.
PO9	Experimental investigation has done by team work.
PO10	Students are able to present their work through presentation and documentation.
PO11	Plan of action to completing the experimental investigation.
PO12	Business plan contains the work flow and cost control
PSO1	Design and development of complete two wheeler vehicle is tested by running of CNG as a fuel.
PSO2	Maintenance of the engine and the sub systems done.
PSO3	Suitable management skills are attained by doing this work.

