



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

Theory of Machine ii

Title of Project: Model Of Radial Engine

Introduction: The radial engine is a reciprocating type internal combustion engine configuration in which the cylinders "radiate" outward from a central crankcase like the spokes of a wheel. It resembles a stylized star when viewed from the front, and is called a "star engine" in some other languages. The radial configuration was commonly used for aircraft engines before gas turbine engines became predominant.

Description of Model - In this Project we made a working model of five cylinder radial engine. In this project we use syringe as piston cylinder arrangement and cardboard for the whole body of model and nuts screws use for the connection of parts.



*Image of Radial engine Model

Applications of Model : The Radial Engine is generally used in aircrafts. Aircraft propeller is attached to this radial engine and rotates it. Radial engine is depend on number of cylinder as number of cylinders increase the power production increases.

What I Learned Through Project: In this project I learned about the working of radial engines, how radial engines work, how balancing works on piston cylinder arrangement, and what mechanism is used in a radial engine.

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