



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

## Department of Mechanical Engineering

### REPORT OF SKILL BASED MINI PROJECT

Theory of machine (120411)

**Title of Project:** WORKING MODEL OF RADIAL ENGINE

#### Introduction:

In the project we make working model of radial engine with the help of cardboard and syringe.

#### Description of Model



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.

#### Applications of Model

They can produce a lot of power. A typical radial engine in a B-17 has nine cylinders, displaces 1,800 cubic inches (29.5 liters) and produces 1,200

Radial engines have a relatively low maximum rpm (rotations per minute) rate, so they can often drive propellers without any sort of reduction gearing.

Because all of the pistons are in the same plane, they all get even cooling and normally can be air-cooled. That saves the weight of water-cooling

#### What I Learned Through Project:

How radial engine work

Application of radial engine

Different parts of radial engine

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