



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

REPORT OF SKILL BASED MINI PROJECT

Automotive engine (190313)

Title of Project: STUDY OF CRANK MECHANISM.

Introduction: Crank mechanism is an arrangement of mechanical parts designed to cover straight line motion to rotatory motion, in a reciprocating piston engine. It is a particular bar linkage configuration that exhibits both linear and rotatory motion simultaneously. This mechanism is frequently used to investigate machine kinematics and resulting dynamic forces.

Description of Model



Applications of Model

- 1) Reciprocating engine / pumps - The crank mechanism which converts straight line motion to rotatory motion and vice – versa, this principle is used in reciprocating engine.

- 2) Hand pump- Fixing the slider in the crank mechanism it is used to form hand pumps.
- 3) Rotatory engine- Fixing the crank in the cylinder – crank mechanism it can be used to form rotatory engines. Rotatory engines are used in cars.
- 4) This mechanism is also used in internal combustion engines where combustion in a cylinder creates pressure which drives a piston.

What I Learned Through Project:

We learn through this project how and where these Crank mechanism is used and how it work.

Submitted By

Name and Signature:

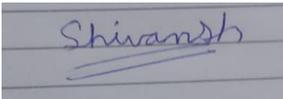
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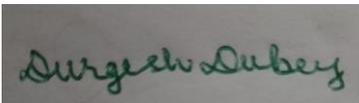
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