



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

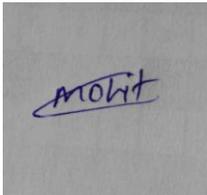
REPORT OF SKILL BASED MINI PROJECT

THEORY OF MACHINE -2

Title of Project: SUN AND PLANETORY GEAR TRAIN

Introduction: An epicyclic gear train (also known as a planetary gearset) consists of two gears mounted so that the center of one gear revolves around the center of the other. A carrier connects the centers of the two gears and rotates the planet and sun gears mesh so that their pitch circles roll without slip.

Description of Model



A point on the pitch circle of the planet gear traces an epicycloid curve. In this simplified case, the sun gear is fixed and the planetary gear(s) roll around the sun gear.

Applications of Model

The epicyclic gear trains are useful for **transmitting high velocity ratios with gears of moderate size in a comparatively lesser space**. These are used in the back gear of lathe, differential gears of the automobiles, hoists, pulley blocks, wrist watches etc

What I Learned Through Project:

By this project we learned that we can transmit the high rotation with epicyclic and it only take less space for working.

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