



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

## Department of Mechanical Engineering

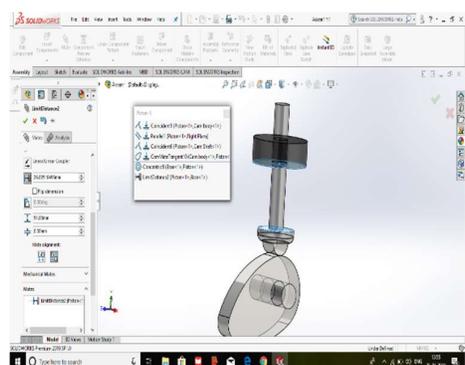
### REPORT OF SKILL BASED MINI PROJECT

#### Theory of machines II

**Title of Project:** CAM AND FOLLOWER

**Introduction:** A unique kind of roller or needle bearing created to follow cam lobe patterns is known as a cam follower, often referred to as a track follower in mechanical engineering. The biggest distinguishing feature of cam followers is how they attach to the mating component; stud style cam followers use a stud, whereas the yoke style has a hole through the centre. Cam followers come in a wide variety of designs.

### Description of Model



A roller follower is a follower that is hinged to a roller that is in contact with the cam. The follower, which is hinged here and rotates with the cam, oscillates. When a significant amount of force needs to be communicated, notably in stationary IC engines, it is employed.

The roller requires a lot of area if there isn't enough room to use a large roller since the pin needs to be large enough to transmit the force between the cam and the follower, and the roller needs to be at least twice as large as the pin.

### Applications of Model

The Roller Follower is used in a wide range of applications such as cam mechanisms of automatic machines, dedicated machines as well as carrier systems, conveyors, bookbinding machines, tool changers of machining centers, pallet changers, automatic coating machines, and sliding forks of automatic warehouses.

### What I Learned Through Project:

Through the project we have come across the working of the cam and followers. Also we have come to know about how can we make the best from using the a cutted wooden piece and a small piece of pipe

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