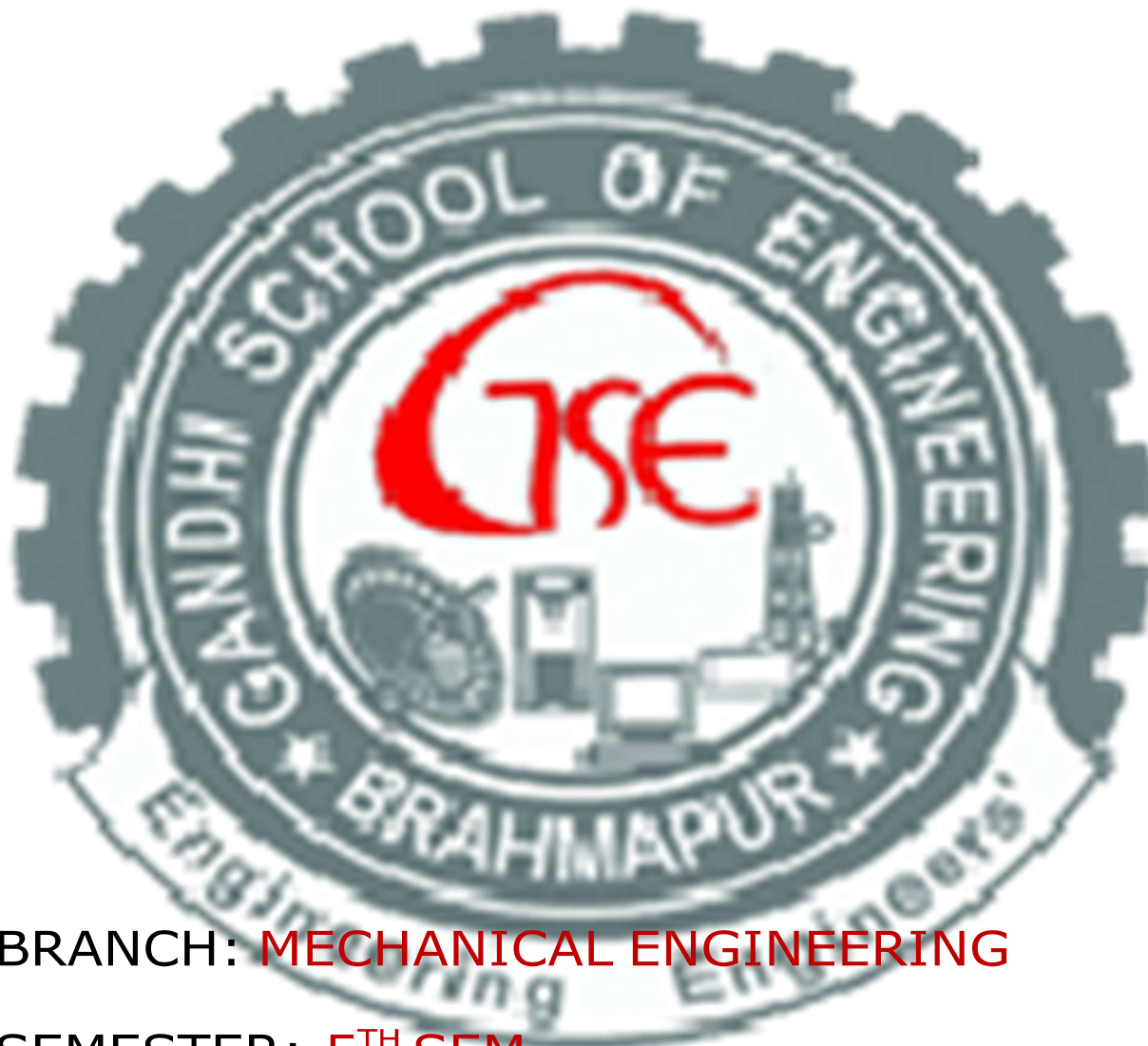


# TEACHING LEARNING MATERIAL



BRANCH: MECHANICAL ENGINEERING

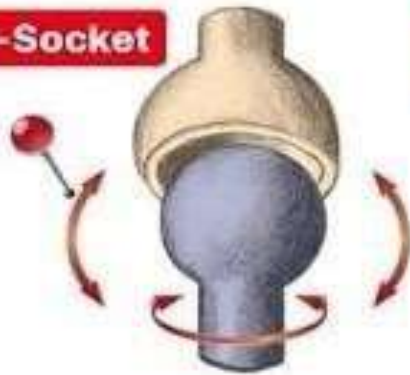
SEMESTER: 5<sup>TH</sup> SEM

SUBJECT: DESIGN OF MACHINE ELEMENTS

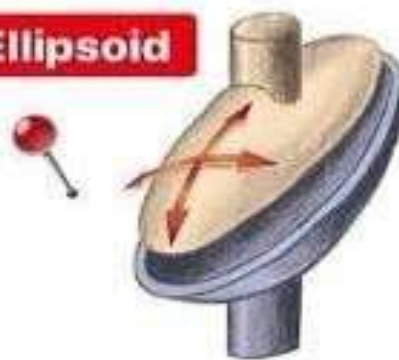
PREPARED BY: ER. SANJAY KUMAR PANIGRAHY

## 1. TYPES OF JOINTS –

**Ball-and-Socket**



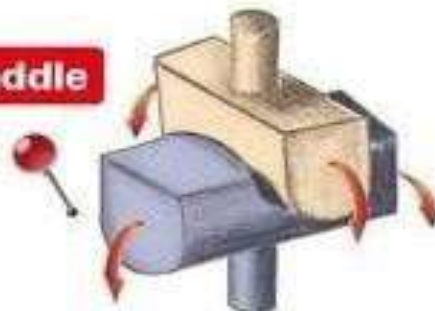
**Ellipsoid**



**Hinge**



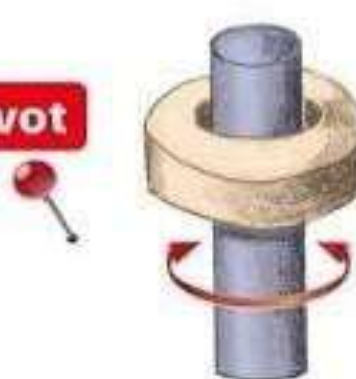
**Saddle**



**Gliding**



**Pivot**



## 2. TYPES OF WELDED JOINTS-

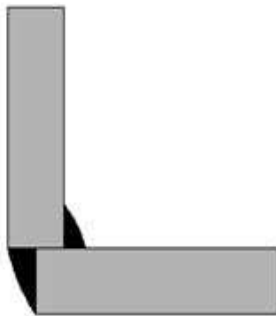
### Types of Welding Joints



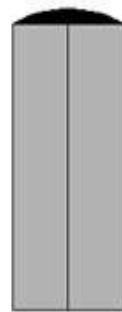
Butt Joint



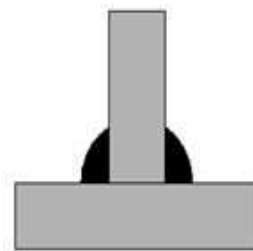
Lap Joint



Corner Joint



Edge Joint



Tee Joint

## 3. RIVETED JOINTS -

