

**DEPARTMENT : CIVIL SEMESTER : 4TH** 

SUBJECT NAME:FLUID MECHANICS AND HYDRAULICS

**SUBJECT CODE: 3140611** 

**FACULTY NAME: PROF. MAYUR M HIRANI** 

## FLUID MECHANICS AND HYDRAULICS

## **Assignment No: 3**

## **Dimensional Analysis and Similitude**

- 1. What is dimensional homogeneity? Explain with example.
- 2. Explain in detail: Rayleigh's method.
- **3.** Explain in detail: Buckingham's  $\pi$ -method.
- **4.** Describe in detail: Geometric similarity, kinematic similarity and dynamic similarity.

