



**SNS COLLEGE OF TECHNOLOGY**  
**Coimbatore -641035**  
(An Autonomous Institution)



Department of Mechanical Engineering  
B. Tech. Agricultural Engineering

Course: 23AGT202 Fluid Mechanics and Hydraulics

Assignment: 01

Date to submit: 20-09-2024

Explain the properties of a hydraulic fluid.

List and elaborate types of pressure measuring equipment's available and draw and explain U tube manometer

Discuss on equation of state and perfect gas applications in industry

Calculate the specific weight density and specific gravity of one litre of a liquid which weight= $s$  7N.

Elaborate about capillary raise of fall how do you call it by shape technically name it.

Discuss on types of fluid flow and draw and elaborate rotational and irrotational flow

Draw and discuss on Flow patterns of all types

Discuss elaborately on continuity equation also state its applications