



# **SNS COLLEGE OF TECHNOLOGY**

**Coimbatore-35**  
**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



## **DEPARTMENT OF CIVIL ENGINEERING**

### **19CEB301- SOIL MECHANICS**

III YEAR V SEM

#### **UNIT 1 – INTRODUCTION**

**Topic 1 : BASIC TERMS**





# DEFINITION



- ❖ Application of laws & principles of Mechanics and Hydraulics to the problems which are related to soil

# NEED

- ❖ To understand the behavior of soil
- ❖ To give proper solutions to the problems related to soil



# IMPORTANT TERMS



- ❖ Density( $\rho$ )
- ❖ Bulk density ( $\rho$ )
- ❖ Dry density
- ❖ Saturated density
- ❖ Submerged density
- ❖ Water Content ( $w$ )
- ❖ Unit Weight





# ASSESSMENT



- ❖ What are the types of soil found in india ?
- ❖ Mention the basic terms related to soil mechanics



# REFERENCES



- ❖ Coduto, D.P., “Geotechnical Engineering Principles and Practices”, Prentice Hall of India Private Limited, New Delhi, 2002
- ❖ McCarthy D.F., “Essentials of Soil Mechanics and Foundations Basic Geotechniques”, Sixth Edition, Prentice-Hall, New Jersey, 2002
- ❖ Das, B.M, “Principles of Geotechnical Engineering”, (fifth edition), Thomas Books/ cole, 2002



# THANK YOU