



# **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**

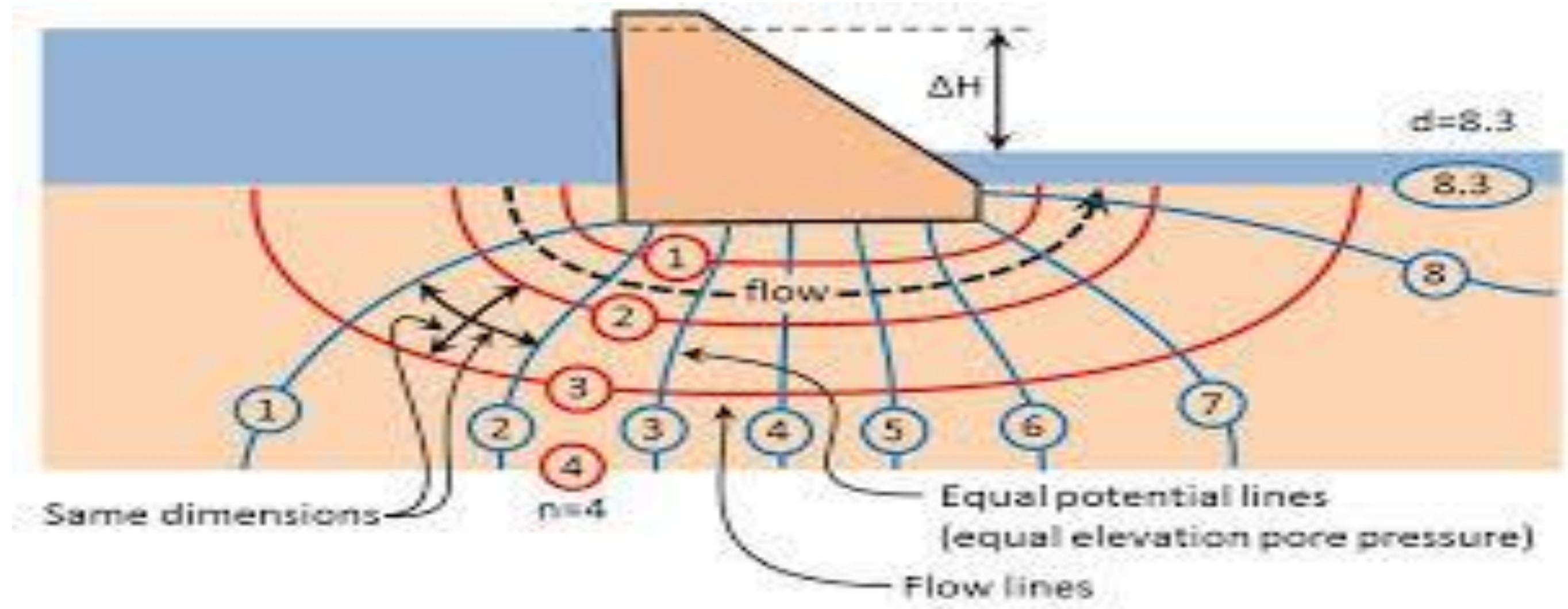
III YEAR V SEM

#### **UNIT 2 – SOIL WATER AND WATER FLOW**

Topic 8 : Flownets



# FLOW NET DIAGRAM

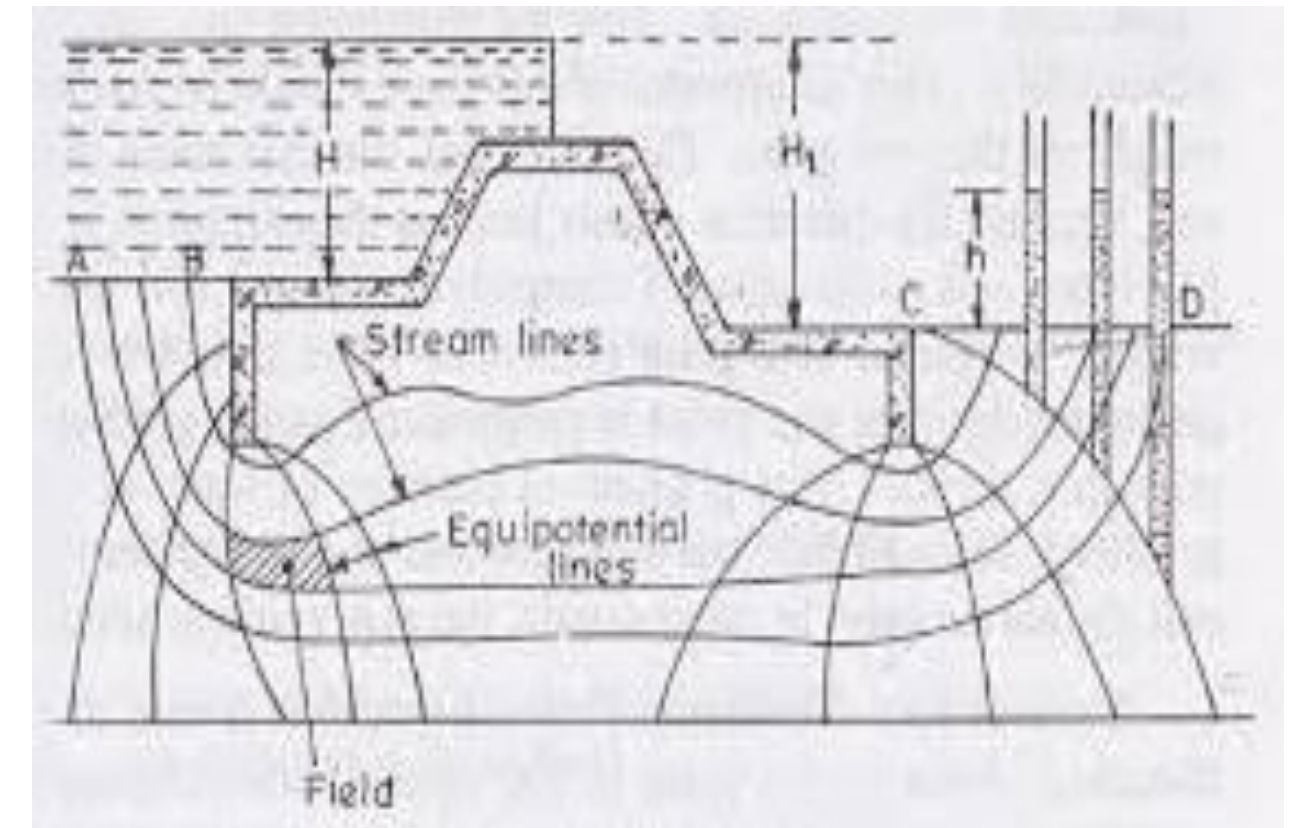




# DEFINITION



- ❖ Flownets are imaginary lines representing the flow in two directions in the form of flow lines and equipotential lines
- ❖ Flow lines are drawn in horizontal direction representing flow of water, also called as stream lines
- ❖ Equipotential lines are drawn vertically, connecting points of same potential





# APPLICATIONS



- ❖ Determination of discharge
- ❖ Determination of seepage velocity
- ❖ Determination of exit gradient
- ❖ Determination of pressure head



# ASSESSMENT



- ❖ What is phreatic line ?
- ❖ What is total head ?
- ❖ What is critical gradient ?



# 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