NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA
SURATHKAL P.O. SRINIVASNAGAR MANGALORE – 575 025
DEPARTMENT OF CIVIL ENGINEERING

# CV386 – Rock Mechanics
# (B.Tech Fifth Semester Civil Engineering
# ASSIGNMENT -2

PDF of hand written scripts should be submitted on or before 30th September 2026, 5:00 PM
**Missing data may be assumed suitably**

1. Define and briefly explain the significance of the following physical properties which are of interest in rock mechanics.
    a. Porosity
    b. Density
    c. Moisture content
    d. Degree of saturation
    e. Coefficient of permeability
    f. Electrical properties
    g. Thermal properties
    h. Swelling
    i. Anisotropy
    j. Durability
2. Define and briefly explain the significance of the following mechanical properties which are of interest in rock mechanics.
    a. Compressive strength
    b. Tensile strength
    c. Shear strength
    d. Point load strength
    e. Modulus of elasticity
    f. Hardness
3. Briefly explain why rock testing is important?
4. List and discuss the factors that affect rock strength?

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