



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**

(A Govt. Aided Autonomous Institution affiliated to Anna University)

- *where Quality and Ethics matter*



## **QEEE COURSES**

### **SHEAR STRENGTH OF SOILS - GEOTECHNICAL ENGINEERING**

#### **COURSE CONTENT:**

- Factors affecting shear strength of soil
- Mohr-Coulomb failure criterion
- Frequently used laboratory tests to measure soil shear strength parameters
- Concept of critical state
- Stress-strain behavior, volume change and shearing of soils in drained loading condition
- Undrained shear strength
- Stress paths for different loading conditions