

## **ROCK MECHANICS-I**

### **Module-I:**

Introduction: Rock formation, soil & rock classification, soil properties

### **Module-II:**

Determination of physico-mechanical and rheological properties of rock and their determination (static and dynamic)

### **Module-III:**

Swelling, elastic and time dependent behaviour of rock and their determination, rock deformability

### **Module-IV:**

Stress-strain analysis in 2D and 3D, failure criteria, effect of anisotropic behaviour of rock, introduction to numerical methods-FEM, DEM

TENTATIVE  
Likely to be Modified