

## ASSIGNMENT : 3

- 1. Discuss the algorithm of load flow solution using newton-raphson method for all type of buses.
- 2. State the assumption made for load flow studies and applications of load flow studies.
- 3. Derive static load flow equations. Hence explain classification of buses.
- 4. Explain how G-S method can be applied for solution of static load flow equation with both PQ and PV buses are present n the system. Also explain how the algorithm is affected when Q limit is exceeded at a PV bus
- 5. Explain the classification of buses. What is the significance of slack bus? Why slack bus related quantity does not enter into Jacobean matrix.
- 6. Compare NR method with GS method of load flow study.