

## **(MDC-15) MODERN TELEPHONE SWITCHING SYSTEMS**

**Theory paper: 100 Marks**

**Sessional: 50 Marks**

Electronic space Division switching :- Stored program control (SPC), switching matrices, multistage switching, enhance services photonic switching.

Time Division switching :- Time division space, and time switching, multiplexed switching, combination switching, T -S, T -S- T, switching n-stage combination switching, PBX switching, PBX networking, digital PBX.

Traffic Engg. :- Traffic load, Grade of service, Erlang's formulas, blocking modeling switching systems, Blocking model.

Subscriber Loop, Dialing Systems :- Switching hierarchy & routing, Transmission plan, numbering plan, charging plan, signaling technique.

Local Access Techniques :- Digital subscriber lines, DSL, ADSL etc, WLL, FIL." wireless for local telephone services.

### **Suggested Text Books and References:**

- 1 Telecomm. Switching systems & networks- Thaigrajan PHI
2. Comm, System - Taub & Schilling, Mc Graw Hill
3. Telecomm. & the Computers - James Martin - PHI
4. The Essential Guide to Telecomm - Pearson Educah - Annabelz Dodd.