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| **Unit-3** | **Data Link Layer**  Design issues, Error detection and correction: Single bit even parity method, CRC, checksum, a simplex stop and wait protocol for an error-free channel, a simplex stop and wait protocol for noisy channel. Sliding Window protocols |
| **Unit-5** | **Network Layer**  Design issues, Routing algorithms: Optimality principle, shortest path routing, Flooding, distance vector routing, Link State routing, Congestion Control Algorithms. |
| **Unit-6** | **Transport Layer**  Transport Services, Elements of Transport Protocols, Connection establishment, connection release, Error control, flow control, congestion control, UDP and TCP protocols. |

**Syllabus of computer network for cet 2**