**CEN444, course content, schedule and related sections from the textbook**

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| **Chapter** | **Topic** | **CLOs** | **Weeks** | **Sections from textbook** |
| **1** | Introduction to local area networks & topologies | **1** | **2** |  |
| **2** | Data link layer: framing, flow control and ARQ | **2** | **2** | Sections 3.1, 3.4 |
| Data link layer: Medium Access Control | **3** | **2** | Section 4.2 (all except 4.2.5) |
| **3** | LAN standards: Ethernet and WLAN | **4** | **1** | Sections 4.3 (4.3.2, 4.3.4, 4.3.5, 4.3.6, 4.3.7) and 4.4 (4.4.1, 4.4.3, 4.4.4) |
| **4** | LAN switching: Spanning-trees, Hubs & switches | **1** | Section 4.8 (4.8.2, 4.8.3) |
| **5** | Network layer: packet-switching, datagrams & VC | **5** | **1** | Section 5.1 |
| **6** | Network layer: Routing algorithms | **6** | **1** | Section 5.2 (5.2.2, 5.2.4, 5.2.5) |
| **7** | Network layer: encapsulation & fragmentation, IP protocol | **7** | **1** | Section 5.5 (all except 5.5.4) |
| **8** | Network layer: IP addressing & subnetting | **1** | Sections 5.6.1, 5.6.2, 5.6.3, 5.6.4 |
| Network layer: IP control protocol | **1** |
| **9** | Network layer: Internet routing: OSPF, BGP | **6** | **1** | Sections 5.6.6, 5.6.7 |
|  | Review and evaluation |  | **1** |  |