The following topics are to be studied. Reading materials are identified for them. Please download from the given links and study.

*1) TCP/IP model*

*2) Headers for IP/UDP/TCP*

*3) IP Routing*

*4) TCP handshake procedure*

*5) Brief overview of ARP, DHCP, DNS*

1. TCP/IP Model and Headers for IP/UDP/TCP
2. <http://www.fujitsu.com/downloads/TEL/fnc/pdfservices/TCPIPTutorial.pdf>
3. <https://tools.ietf.org/html/rfc791>
4. <https://www.ietf.org/rfc/rfc793.txt>
5. <https://www.ietf.org/rfc/rfc768.txt>
6. <http://www.itprc.com/tcpipfaq/default.htm>
7. IP Routing
8. <http://nptel.ac.in/courses/106105081/26>
9. <http://nptel.ac.in/courses/106105081/27>
10. <https://www.ietf.org/edu/documents/82-RoutingBridgingSwitching-Perlman.pdf>
11. <http://www.itprc.com/routing.htm>
12. ARP
13. <http://www.omnisecu.com/tcpip/address-resolution-protocol-arp.php>
14. <http://cis.k.hosei.ac.jp/~jianhua/course/com/Lecture9.pdf>
15. <http://www.cs.virginia.edu/~cs458/slides/module06-arpV2.pdf>
16. DHCP and DNS
17. <http://nptel.ac.in/courses/106105081/33>
18. <https://www.ietf.org/edu/documents/80DNS-Koch-Gudmundsson.pdf>
19. <http://www.cs.princeton.edu/courses/archive/spr10/cos461/assignments/sockets/dns_dhcp.pdf>
20. TCP Handshake procedure
21. Connection Establishment

<http://www.tcpipguide.com/free/t_TCPConnectionEstablishmentProcessTheThreeWayHandsh-3.htm>

1. Data Transfer

<http://www.omnisecu.com/tcpip/tcp-transmission-control-block.php>

<http://www.omnisecu.com/tcpip/tcp-sliding-window.php>

1. Connection Termination

<http://www.omnisecu.com/tcpip/tcp-connection-termination.php>