**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Session Odd Semester**

**(2018-19)**

**Class: Name of the Teacher: Jasdeep Kaur**

**Subject:** **Computer Networks Period :1st and 5th**

**Paper : BCA-16-501 Room No : 205**

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| **S. No** | **Date From** | | **Date Upto** | **Topics to be covered** |
| Week 1 | **(For ongoing classes)** | | | Network Hardware and Software |
| July 24, 2018 | | July 28, 2018 |
| Week 2 | July 30, 2018 | August 4, 2018 | | Network Topologies, Uses of Computer Networks |
| Week 3 | August 6, 2018 | August 11, 2018 | | OSI Reference Model, TCP/IP reference model, Comparison of OSI with TCP/IP model. |
| Week 4 | August 13, 2018 | August 18, 2018 | | Transmission media: Twisted pair, Coaxial cable, Fiber optics, Wireless Transmission (Radio, Microwave, and Infrared), |
| Week 5 | August 20, 2018 | August 25, 2018 | | Switching: Circuit Switching, Message Switching, Packet Switching & their comparisons. |
| Week 6 | August 27, 2018 | September 1, 2018 | | ISDN and its services, Multiplexing: Frequency Division, Time Division, Wave Length Division, MODEMS |
| Week 7 | September 3, 2018 | September 8, 2018 | | Data Link Layer: Design Issue, Framing, Errors Detection and Correction Code: Check sum. |
| Week 8 | September 10, 2018 | September 15, 2018 | | CRC, Hamming code, Data Link Protocols for noisy and noiseless channels. |
| Week 9 | September 17, 2018 | September 22, 2018 | | Sliding Window Protocol: Stop and Wait ARQ, Go-back-N ARQ, Selective Repeat ARQ. |
| Week 10 | September 24, 2018 | September 29, 2018 | | Medium Access Sub-Layer: Introduction to Static and Dynamic channel allocation, IEEE standards 802.3. |
| Week 11 | October 1, 2018 | October 8, 2018 | | Network Layer: Design Issues, network layer addressing, network layer datagram. |
| **MID SEMESTER EXAMINATION (October 11, 2018 to October 17, 2018)** | | | | |
| Week 12 | October 20, 2018 | October 27, 2018 | | IP addressed Classes. Sub netting-Sub network, Subnet mask, Routing Algorithm: Shortest Path Routing, Flooding, Broadcast and Multicast routing, |
| Week 13 | October 29, 2018 | November 3, 2018 | | Congestion control: Principles of Congestion Control, Congestion prevention policies, Leaky bucket and token bucket algorithms. |
| Week 14 | November 5, 2018 | November 10, 2018 | | Application Layer: Domain Name system (DNS), DNS name space, DNS Servers. |
| Week 15 | November 12, 2018 | November 17, 2018 | | World Wide Web, HTTP, e-mail: Architecture and Services. |
| Week 16 | November 19, 2018 | November 22, 2018 | | Message Component, Multipurpose Internet Mail Extensions (MIME),. |
| Week 17 | November 26, 2018 | December 1, 2018 | | Simple Mail Transfer Protocol (SMTP), Post Office Protocol (POP), Remote Login and File transfer protocol, Introduction to Network Security. |