# CWN Specifications

- The campus wide network is connecting around 10 Building in the campus of over 19 acres of land through fiber connectivity.
- The campus wide network is implemented with Three / Two layer (Tier) architecture.
- Highly reliable and scalable Core, Aggregation and Edge Switches.
- The campus wide network is with 10 GBPS backbone connectivity and 1 GBPS access connectivity.
- Network with Ring Topology and Star Topology.
- The Fiber Laying is in Ring Topology.
- The Network consists of 700 thick access nodes with expansion / scalabilty factor of 30 %.
- Dedicated Wireless Access Controller with 27 Indoor and 4 Outdoor Access Points Integrated CCTV surveillance system with Dome, Bullet and PTZ camers for surveillance of entire campus.
- Integrated Juniper Router and Internet Connection provided by ISP like Railtel and BSNL through fiber link with minimum speed of more than 50 Mbps to maximum 100 Mbps and can be upgrade to 1 Gbps.
- Dedicated Servers for MIS, Mail Server, E-Learning Server, NPTEL Server (Video) FTP server, QEEE etc.
- Integrated Enterprise IP-PBX System with IP Telephony.
- Biometric Door Access System for Data center.
- Data center with Fire Alarm and CCTV surveillance.
- High State of art technology with internationally recognized brands:
  - Switches- Cisco, Dlink
  - UTM-Cyberoam
  - Wireless Devices - Cisco
  - Fiber - Tyco, Dlink
  - Racks - Vallrack
  - Cables -D-Link
  - Inverter - APC
  - Servers Dell
  - Network Monitoring Software - Whatsup Gold



LEGEND-3
6 Core Fibre Optic Cable
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## Wireless Access Points Diagram for Campus

Main Building 8 AP + 1 AP

Library 1 AP + 1 AP

Wireless Access Points (AP) Indoor AP = 27 Outdoor AP = 4

Workshop 1 AP

Boys Hostel 2 2 x 3 Floors = 6 AP

Boys Hostel 1 2 x 3 Floors = 6 AP + 1 AP

Open Space

D Pharm Building

Guest House

Street

Open Space