# DIGITAL CAMPUS ARCHITECTURE (E-GOVERNANCE)
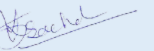


# Mahatma Gandhi University of Medical Sciences and Technology
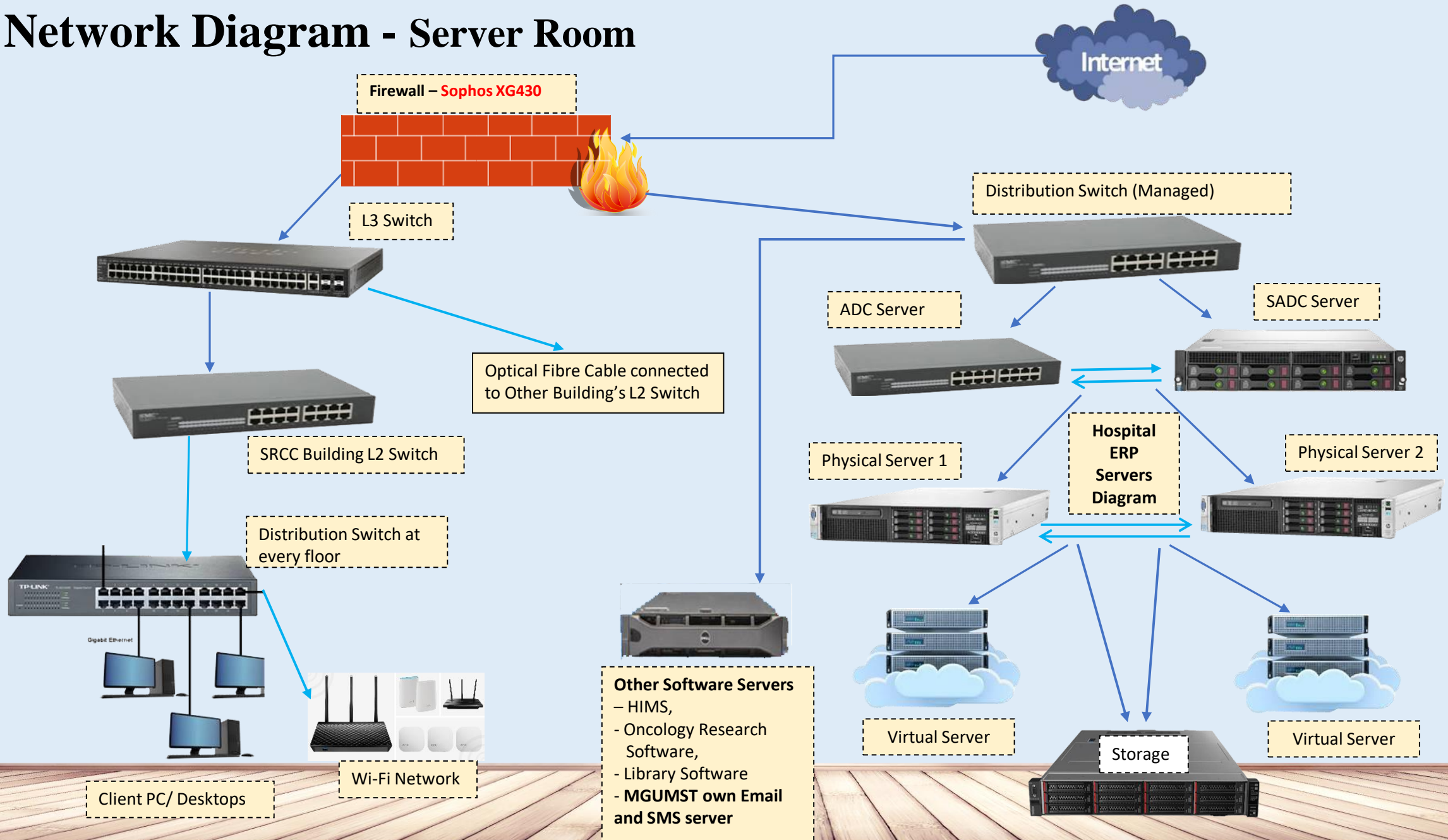
RIICO Institutional Area, Sitapura, Tonk Road, JAIPUR – 302 022
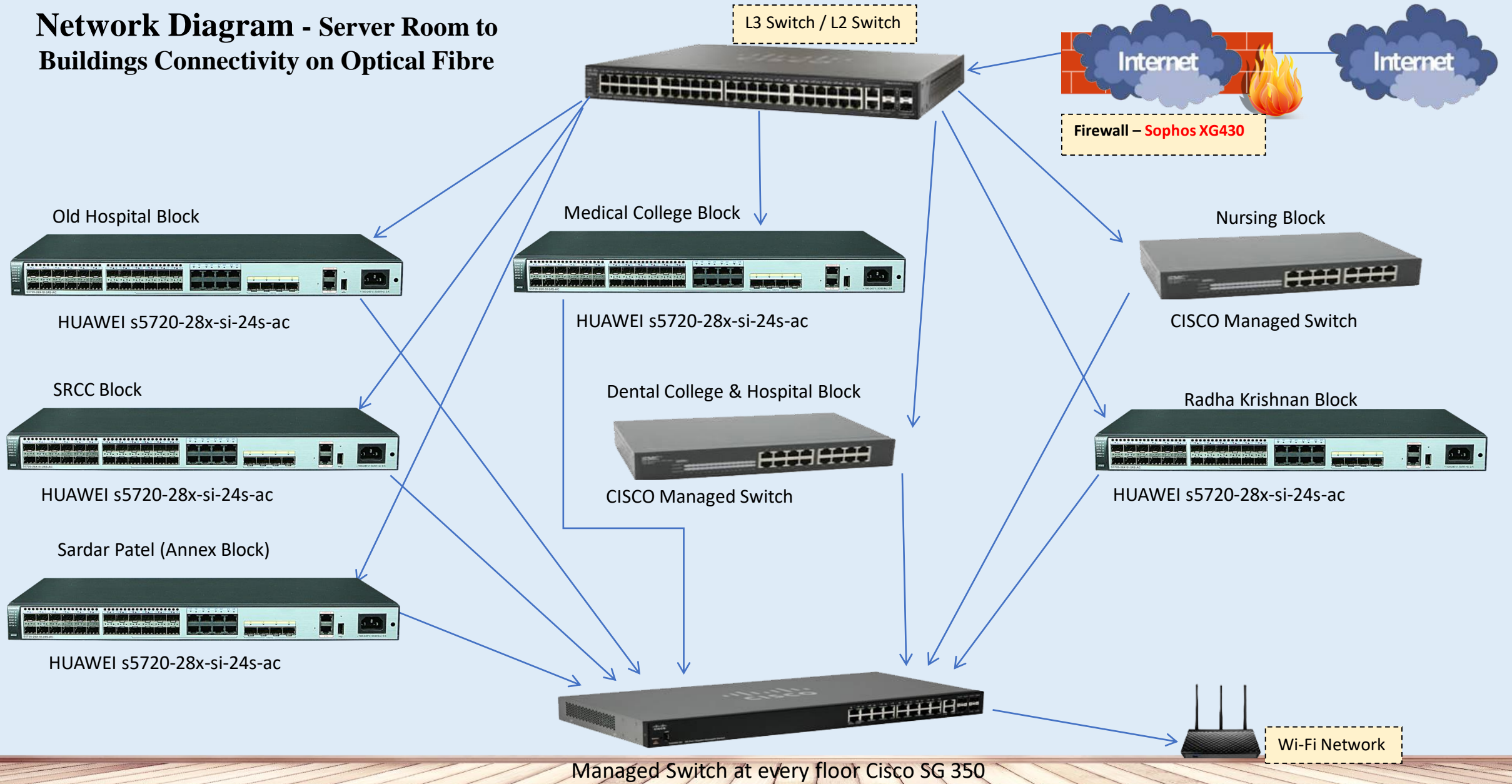
Ph. 0141-2771777

www.mgumst.org

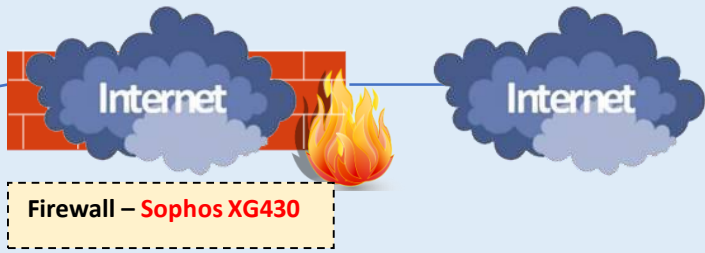# Network Diagram - Server Room

**Network Diagram** - Server Room to Buildings Connectivity on Optical Fibre

L3 Switch / L2 Switch

INTERNET

INTERNET

Firewall – Sophos XG430

Old Hospital Block

HUAWEI s5720-28x-si-24s-ac

Medical College Block

HUAWEI s5720-28x-si-24s-ac

Nursing Block

CISCO Managed Switch

SRCC Block

HUAWEI s5720-28x-si-24s-ac

Dental College & Hospital Block

CISCO Managed Switch

Radha Krishnan Block

HUAWEI s5720-28x-si-24s-ac

Sardar Patel (Annex Block)

HUAWEI s5720-28x-si-24s-ac

Managed Switch at every floor Cisco SG 350

Wi-Fi Network

# SOLUTION ARCHITECTURE

| Layers | | | | External Services |
|---|---|---|---|---|
| **Client** | **Network** | **Application** | **Data** | Web Services |
| Super Admin | Internet | University ERP | Common Database | e-mail services |
| Top Management | Local LAN | Hospital ERP | Web Services | SMS Gateway |
| Department Admin | Wi-Fi | Research Software | | Biometrics |
| Students | | Staff & Student ID Cards | | Payment Gateway |
| Parents Portal | | | | RFIS / Card Reader |
| Patients Services | | | | Data Integration |

# E-GOVERNANCE IN MGMUST

- The network is protected and controlled by Sophos XG430 Firewall.

- MGUMST have been equipped with 1 GBPS Internet Lease Line from Tata Tele Services Pvt. Ltd., which gets terminated in Data Center/ Server Room.

- All the servers are placed in the Server Room and is not at all accessible from outside the campus

- From the Server Room, the network is distributed to all buildings via 10 GBPS / 1 GBPS Fiber Uplinks.

- All network switches are Managed Switch with VLAN.

- Institutes Database are uploaded on Government web portals i.e. NAAC, NMC, DCI, INC portals.

# INTEGRATED SOLUTION FRAMEWORK

| Colleges | Admission | Fee Schedule | Library |
|---|---|---|---|
| Departments | Students | Examinations | Alumni |
| Programs | Time Table | Results | Feedback |
| Semesters | Attendance | Marksheets | Reports |
| Subjects | Assignments | Certificates | Hospital Services |
| Faculties | Clinical Postings | | Pharmacy |
| Syllabus | Internal Assessments | | Stores |
| | Field Visits | | |

Digital Campus Framework

# E-GOVERNANCE IN ADMINISTRATION

- All Hospital related activities are automated with HIMS, PACS & Pharmacy Software.

- Attendance is being captured by Biometric device at each location of institute.

- All the Servers, Desktops, NUC and Laptops are licensed with proper Microsoft Licenses.

- All the Servers and Clients are protected by Antivirus (i.e. Sophos End Point Security and Seqrite End Point Security).

- All the websites are maintained / updated regularly by M/s Visual Dapple, Jaipur.

# E-GOVERNANCE IN FINANCE & ACCOUNTS

- For fulfill the needs of accounting and finance, Tally ERP is in place and is updated to latest version time to time.

- For all the online payments, we are in process of precuring the payment gateway from Canara Bank.

# E-GOVERNANCE IN STUDENT ADMISSION & EXAMINATION SUPPORT

- College ERP Microsoft Dynamics NAV 2016 procured for automation.
- The library and information services activities have been made fully automated using KOHA: ILMS with integrated In/Out system.
- LCD projectors interfaced with computers have been installed in all the Lecture Halls/Class Rooms to undertake Computer-Aided Teaching/Learning as well as for presentations