4.4.2

Institution updates its computer and IT facilities including Wi-Fi

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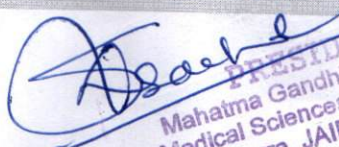
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Upgradation of Network:

1. For **better Security, Control, Flexibility and Scalability of Network**, we upgraded the Local Network (LAN) on Layer-3, & Layer-2 Switch (on VLANs) and upgrading Unmanaged Switch with Manage Switch.

   a. For that **Hospital Building** network upgraded to **Optical Fiber** from Copper, now access of HIMS and local communication comparatively faster & more secure. All network Switches also upgraded for that purpose. Now our **Local Network speed is 1GBPS** (Giga byte per second). Few location's (i.e. LAB, Radiology, and Ground Floor) work in-process.

   b. **Nursing Building** now connected (from IT Server Room directly) and also upgraded on **Optical Fiber Network**.

   c. **SRCC** Building – distribution of LAN **shifted to Optical Fiber** complete.

   d. Medical College, Dental College both are shifted on new Network system.

   e. Guest House building (CCTV DVR, Computer System) also connected with hospital network.

   f. Girls Hostel (BDS) and Boys Hostels (MBBS) CCTV DVR also connected with hospital network.

2. Both Guard Rooms (Hospital and College) now connected with Hospital Network (April 2020).

Upgradation of HIMS

3. Central Lab Sample Barcode updated – Now **Ward Name** (location of patient) will be **print on Barcode**.

4. **Microbiology College** Culture and **Pathology College Lab Reports** (Biopsy) updated as required. Path Lab Slide Number system (**required by concern departments, college**) activated.

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5. **TPA Bulk Report upload** and **Statement Collection** option in HIMS for **OP and IP** both is now available. (required by TPA and Accounts)

6. **Short Name of Investigations** will be print on Central **Lab Barcode**. It will be providing a great help to reducing the TAT.

7. **GST Report** Updated as per Pharmacy and Accounts department.

8. Now **HIV Report** and other reports View will be **access on the Basis of User Rights.**

9. For Stores **Vendor/Quote Comparison** provision now available in HIMS (Order by Management).

10. For Stores **Re-Order of material option** now available in HIMS.

11. **Birthday wishes SMS** services started now.

12. Long awaited **Pre-Advance report** updated (required by Mr Prakash Gupta ji).

13. Lab Reports - Dual Signature for Approval (required by Pathology) option now available.

14. **Blood Bank –**

    a. All **Reports** are update as per advised by Dr. Shweta Sharma, Blood bank.

    b. **Blood Donor SMS** services functioning now.

    c. **Transfusion Record form** and **Haemovigilane Report Form** now available in HIMS (required by Dr R M Jaiswal Ji, Incharge Blood Bank)

    d. Blood Test : Option for enter **Methodology of Test** is now available (required by Dr R M Jaiswal Ji, Incharge Blood Bank).

    e. Blood Request : No need to type Organisation name manually, now software get it automatically from Pt. Registration Screen (required by Dr R M Jaiswal Ji, Incharge Blood Bank).

    f. Blood Requisition Form -> Nursing staff now can Indent for Blood from ward through Nursing Module (19/02/2020). It will reflect in Blood Bank.
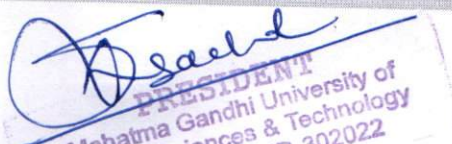
g. Dash board: New update for Blood Group wise Stock Position Dash board now available (20 Jan 2020).

h. New Component Preparation Screen added (20 Jan 2020).

i. Organization Master: Donor's organization master added (Feb 2020).

j. Organization Master: Donor's organization master- new field i.e. Contact person's details added (23 July 27, 2020)

15. Lab Investigation Report – Now patient can view or print his/her Lab Investigation Reports without Login. In only one step report can be taken on line (17 March 2020).

16. Lab Reports – **Third Signature for Approval of lab reports** (required for COVID-19 RT PCR) option added (18 June 2020).

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I.T. Upgradation

a. Server Up-gradation

Year	Date	Type of Up-gradation / new Purchase	Remark
2012	21-03-2012	Server IBM X-3400	Old Software
2015	19-09-2015	HP ProLiant DL180	New HIMS Software Running
2017	19-04-2017	HP ProLiant DL380	
2017	19-04-2017	HP ProLiant DL380	
2017	19-04-2017	MSA 2040	
2018		Dell T30	
2019	14-08-2019	Dell T30 Utility Server	SADC for Current HIMS
2019	08-08-2019	Dell-EMC R230 OncoCollect	-
2020	14-09-2020	Dell-EMC R240 KOHA and D-Space	Previously doing Manual Work

b. Network Infrastructure Up-gradation

Year	Date	Type of Up-gradation	Remark
2018	14-12-2018	Up-graded Managed Network from Copper to Fibre with Layer 3 and Layer 2 Managed Switch	Un-managed network
2020	10-06-2020	Wi-Fi Implemented in the whole Campus- Single Sign On (SSO)	Limited Wi-Fi at Selected Area

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c. Hardware Resources Up-gradation

Year	Date	Type of Up-gradation	Remark
2018	-	Lenovo/Dell/HP Core i-3 Purchased	Old assembled Desktop
2018	March 2018	Real Time Biometrics	Manual Attendance
2020	May 2020	Installed Mantra Biometric Device - Face reorganization machines	Previously used finger print biometrics

d. Software Resources Up-gradation

Year	Date	Type of Up-gradation	Remark
2013	7-7-2013	HIMS CiftHealth	Charak Software
2017	27-01-2017	New Hospital ERP Suvarna HIMS purchased	HIMS CiftHealth
2017	April	Software Suvarna PACS	Manual work
2017	May 2017	Antivirus Purchased 60 Qty. Kespersky	Individual Limited Qty.
2018	24-04-2018	KOHA Purchased and implemented	Manual
2020	27-09-2020 (Renewal)	Tally ERP	-
2020	14-05-2020 (update)	Suvarna HIMS update	-
2020	21-08-2020	Purchase of SPSS Software	Manual Work
2020	Nov. 2020	Antivirus upgrade Seqrite - Qty. 200	Kespersky EPS – Qty. 60
2020	17-09-2020 (Renewal)	Cyberoam Firewall CR200ing	UBUNTU Server
On regular Basis, whenever new PC purchased		Microsoft Windows License purchased Qty 650	UBUNTU
		Microsoft Office License Purchased Qty. 276	Open Office

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2020	21-Oct-2020	Renew of Antivirus Sophos Purchased ver. 10.8.9.2 - Qty. 412	-
2020	23-Nov-2020	New added Antivirus Seqrite EPS Purchased ver. 7.6 - Qty. 230	-
2020	01-02-2020	D Space Purchased and implemented	-

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