



IT-INFRASTRUCTURE

Mangalam College Ettumanoor

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

14/12/23



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OVERVIEW

Servers	
Redundant Power Supply	Yes
Redundant Storage	Yes
Redundant Network Connectivity	Yes
Structured Local Area Network	
Automatic Internet Fail Over	Yes
Internet Load Balancing	Yes
Web & Application Filtering	Yes
Individual User Accounts	Yes
Unified Threat management	Yes
Inter Building Back Bone Link	OFC
Back Bone Link Band width	1 GBPS
No Of LAN Subnets	26
Wifi Facility In Common Area	Yes
Wifi Facility In Hostels	Yes
Desk Tops	
Desktops	760 Nos
Printers & Scanners	
Laserjet, All In One, DMP	78 Nos
Scanner	2 Nos
Projectors	
Fixed Class Room Projectors	69 Nos
Routers	
Cisco Routers	5 Nos
Softwares	
Microsoft OVS agreement	Yes
Licensed Software	Yes
24 Hours Internet Connectivity	
Bandwidth	1000 Mbps ILL
ISP	BSNL
Contention Ratio	1:1
Static IP	Yes
ISP Media	OFC
Biometric Staff Attendance	
Fingerprint Machines	5 Nos
Log Backup	Yes
ZKTECO Mini Plus Face Recognition	1 Nos
CCTV surveillance	

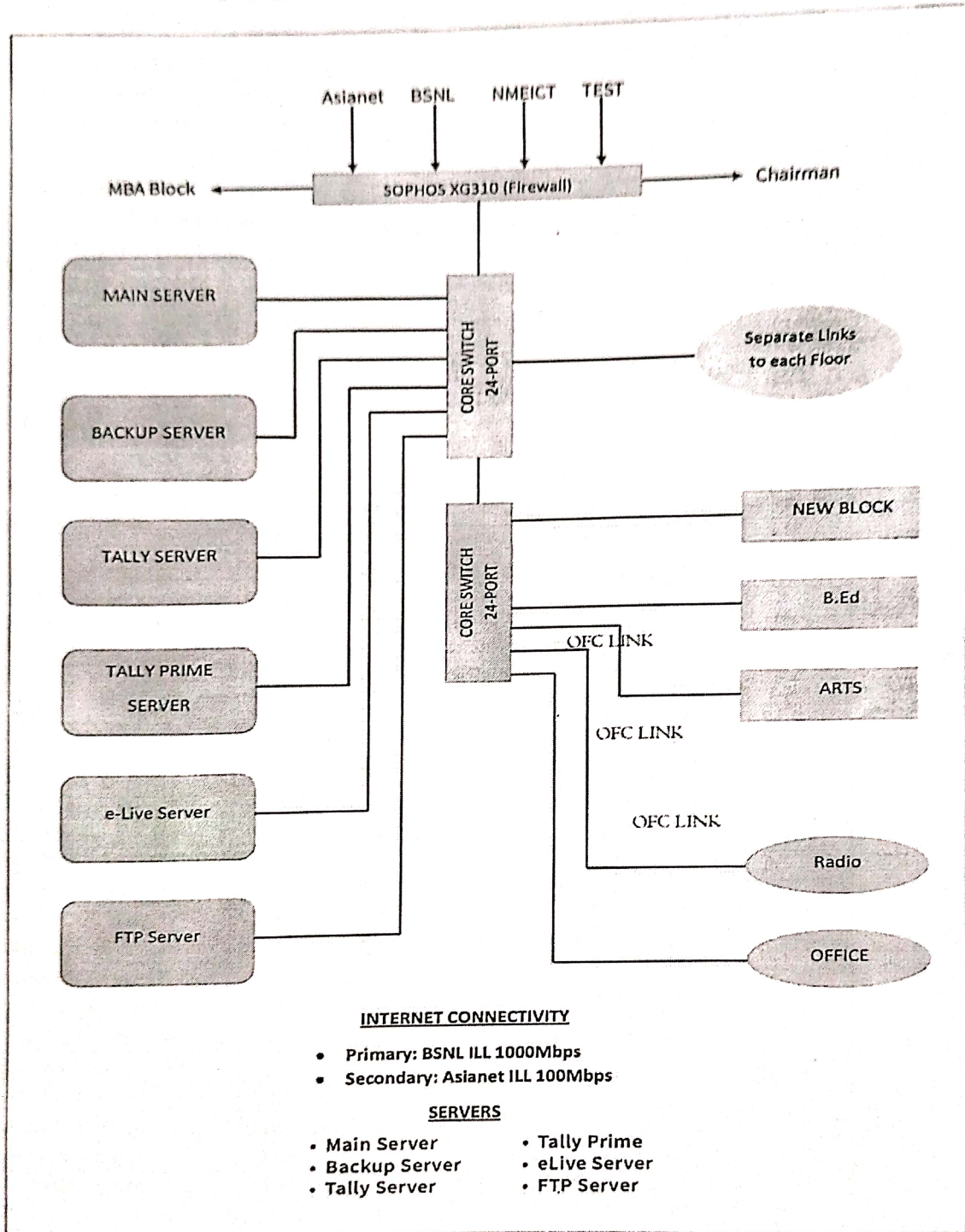
IP Camera with night vision	110 Nos
Network Video Recorder	8 Nos
Total Storage Capacity	30 Terra Byte
EPABX	
ISDN PRI Connectivity	Yes
No Of Trunk Channels	30
No Of Extensions	40
Capacity	Upto 200
Power Backup	
DG Set	380 KVA,
UPS	120 KVA
Back UP Batteries	100Ah X 40 Nos



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Network Backbone

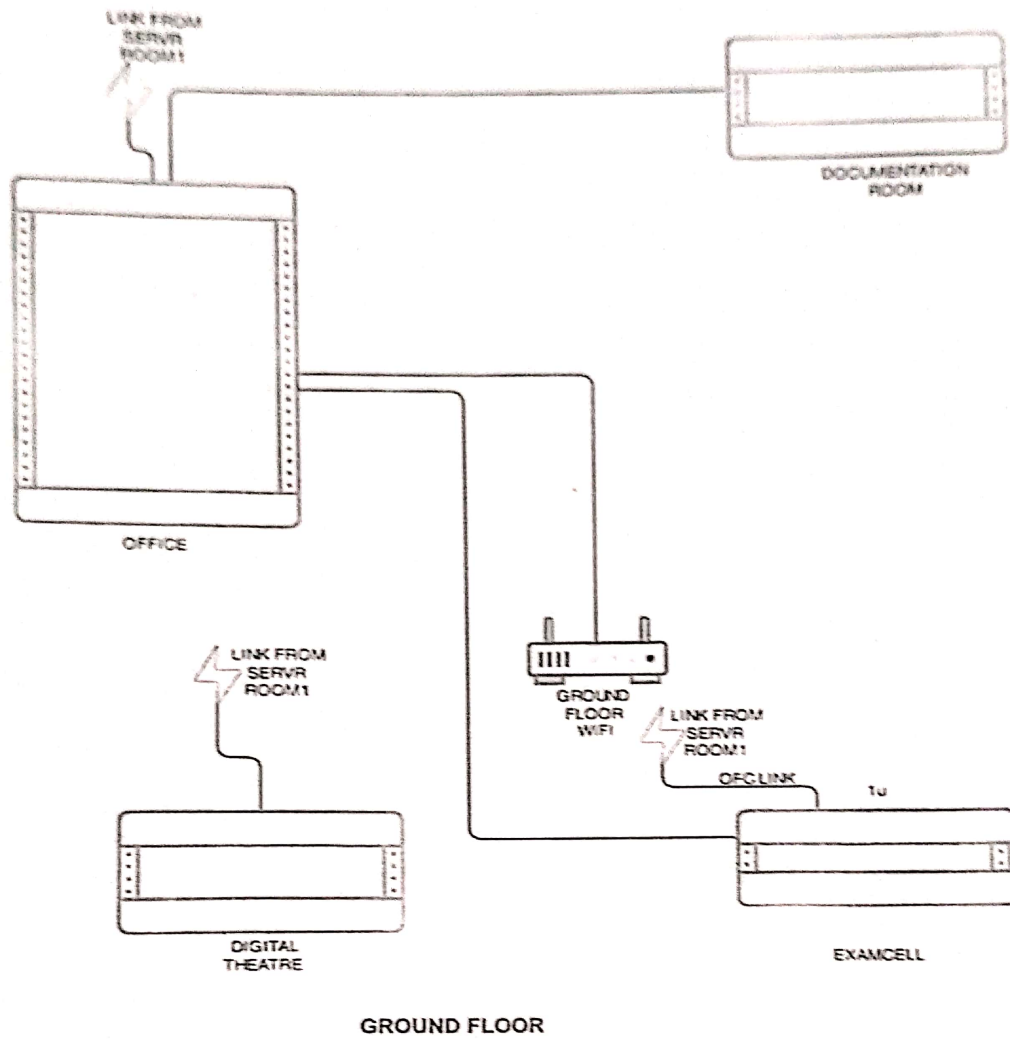


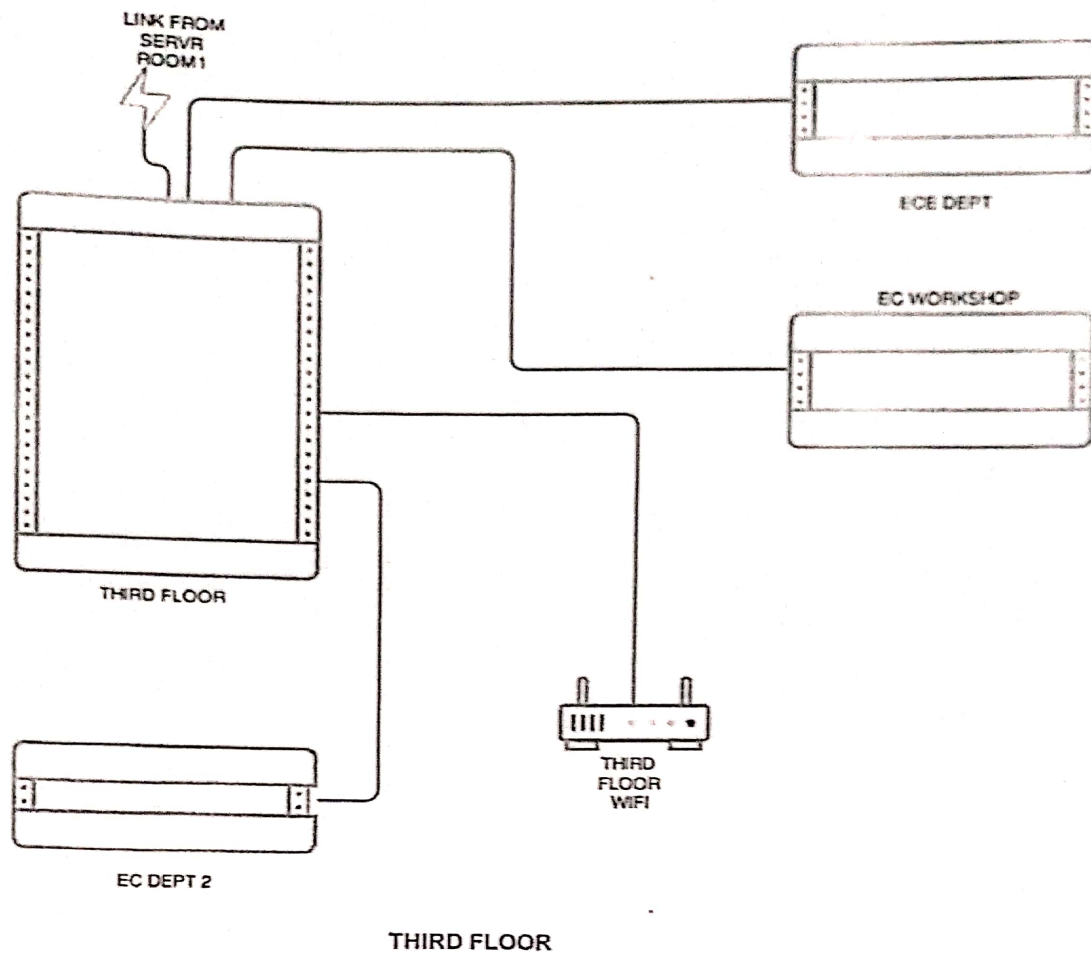
Structured Local Area Network

- o Automatic Internet Fail Over
- o Internet Load Balancing
- o Web & Application Filtering
- o Individual User Accounts
- o Unified Threat management
- o Inter Building Optical Fiber Back Bone Link
- o Gigabit Back Bone Link
- o LAN Subnets
- o Wi-Fi Facility In Common Area
- o Wi-Fi Facility In Hostels

Equipment

ITEM	Make/Model	Qty	Location
Firewall	ShoposXG310	1	SERV ROOM
Network Routers	CISCO 2811	1	N SERV ROOM
Network Routers	CISCO 1841	1	N SERV ROOM
Network Routers	CISCO 1751	1	N SERV ROOM
Network Routers	CISCO 1751	1	N SERV ROOM
Network Routers	CISCO 1721	1	N SERV ROOM
Network Switch	HP 24 PORT	1	SERV ROOM
Network Switch	HP 24 PORT	1	FRST FLOOR
Network Switch	HP 24 PORT	1	Sec Floor
Network Switch	HP 24 PORT	2	Third Floor
Network Switch	HP 24 PORT	1	N SERV ROOM
Network Switch	HP 24 PORT	1	N Ground Floor
Network Switch	HP 24 PORT	1	N 1st Floor
Network Switch	HP 24 PORT	1	N 2nd Floor
Network Switch	HP 24 PORT	1	N 3rd Floor
Network Switch	D Link 24 port	1	SERV ROOM
Network Switch	D Link 8 Port	1	GND FLOOR
Media Converter		10	SERV ROOM
Media Converter		1	New SERVER ROOM
Access Points	Ubiquiti	3	N Ground Floor
Access Points	Ubiquiti	2	N 3rd Floor
Access Points	D-link	1	Third Floor
Access Points	Ubiquiti	1	Ground FLOOR

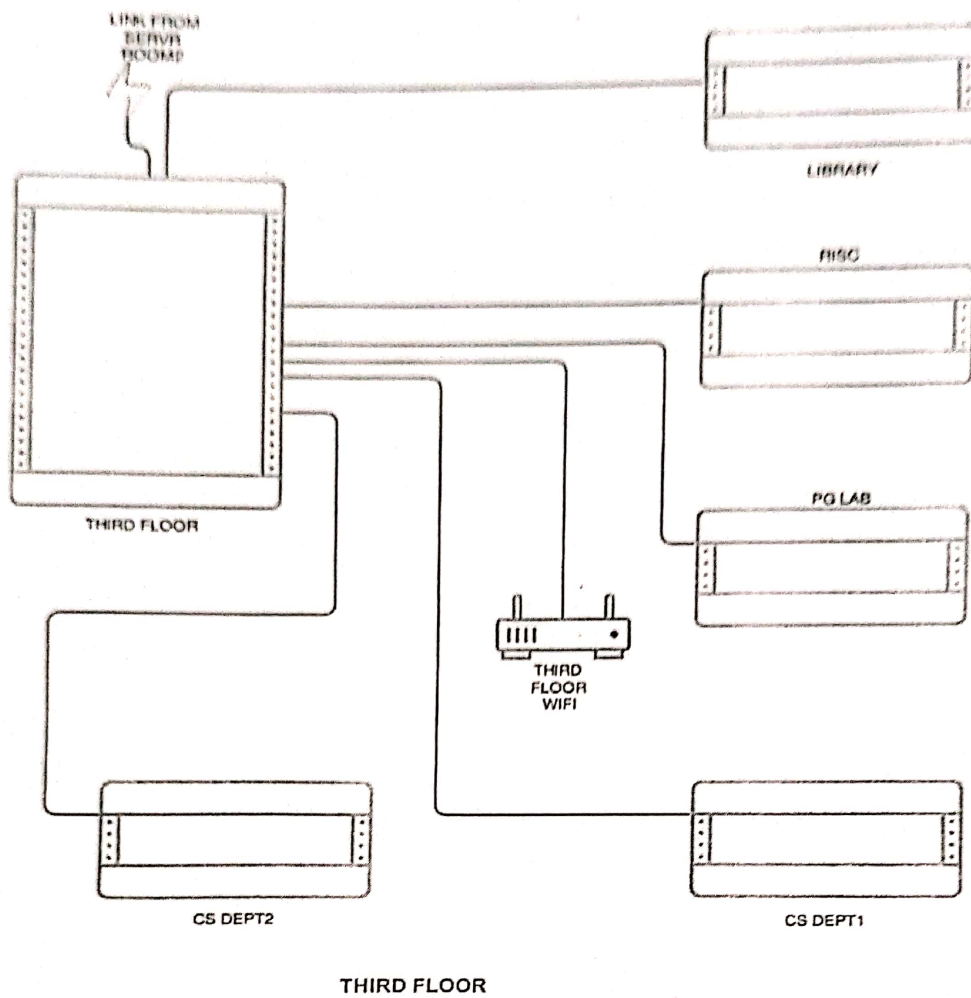


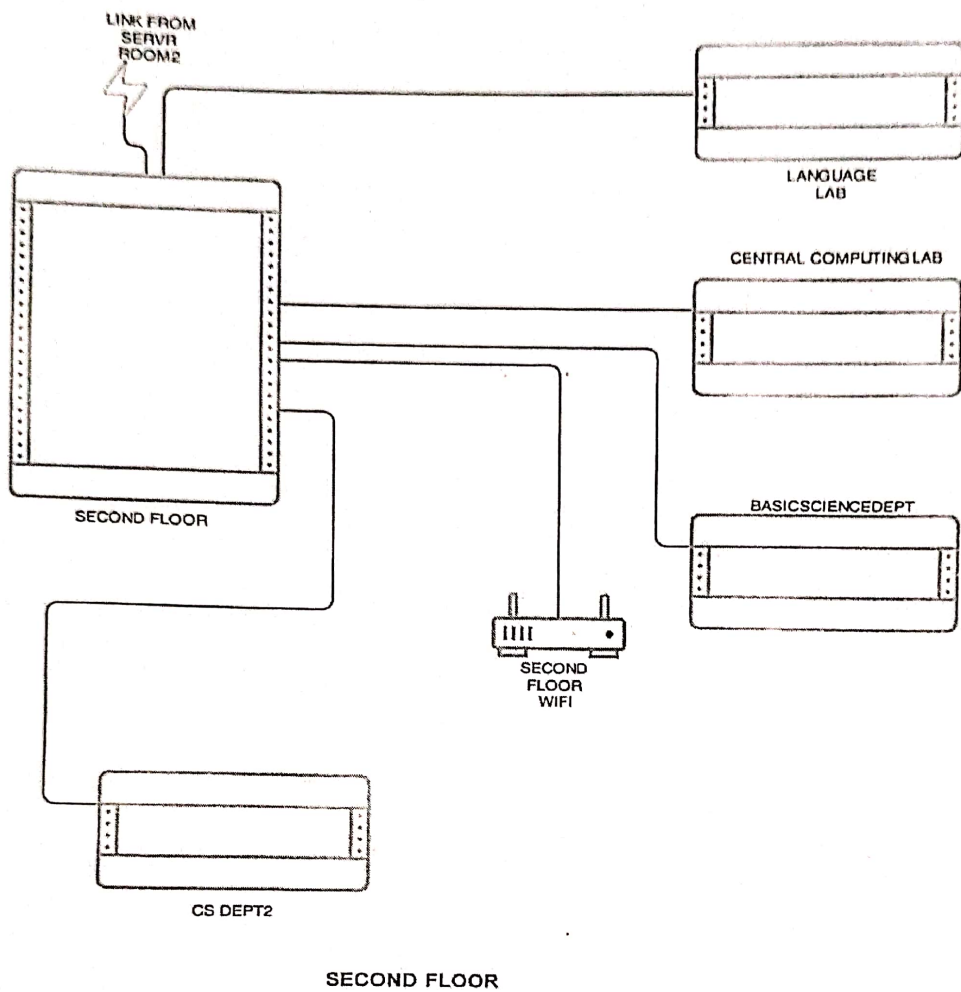


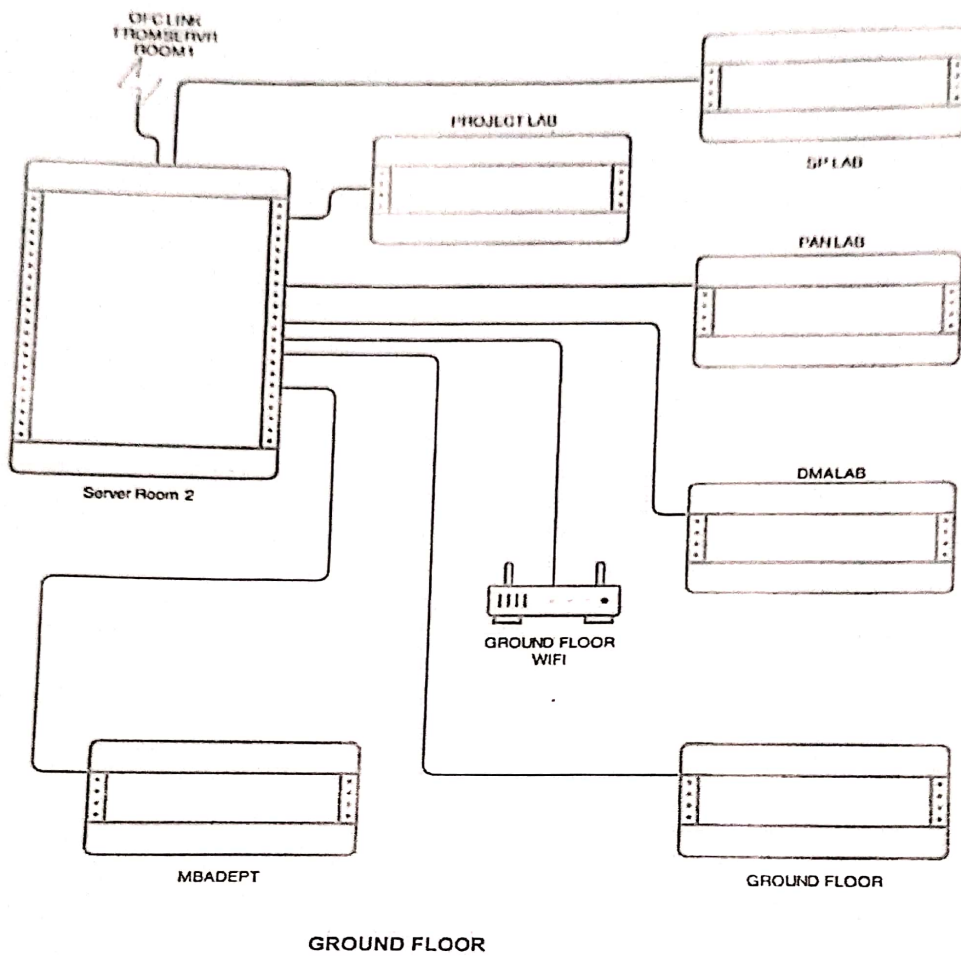
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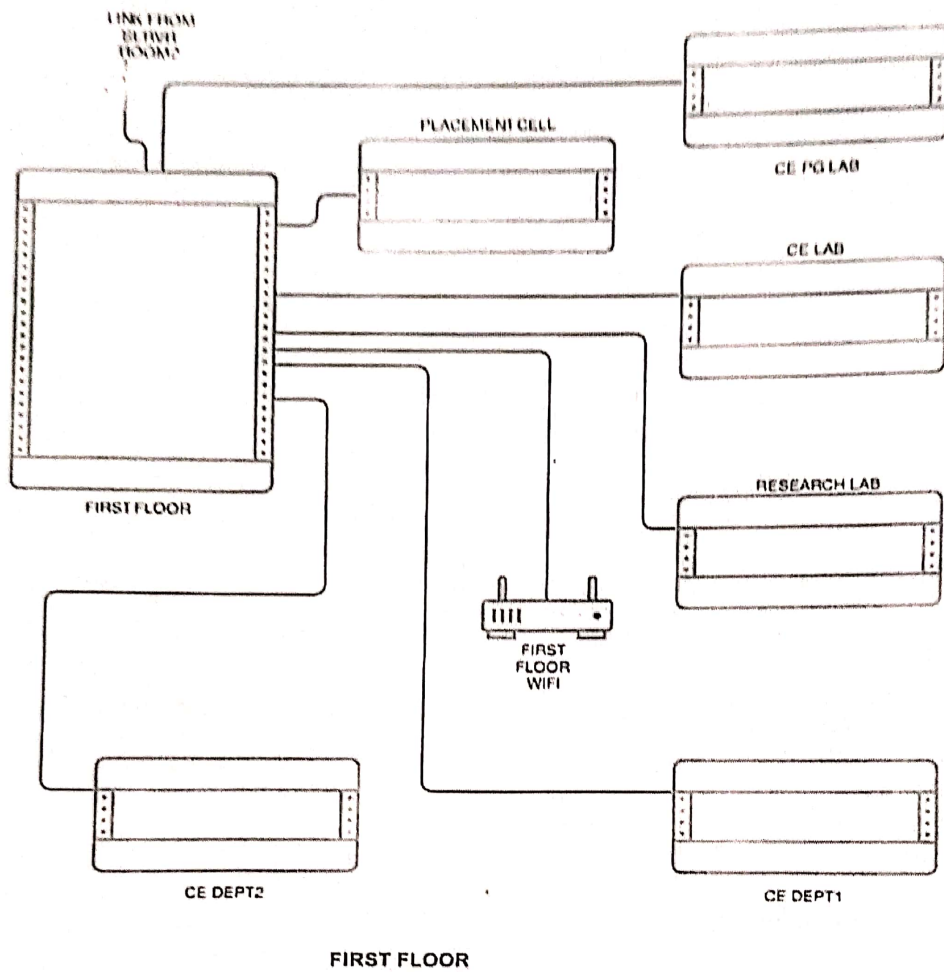
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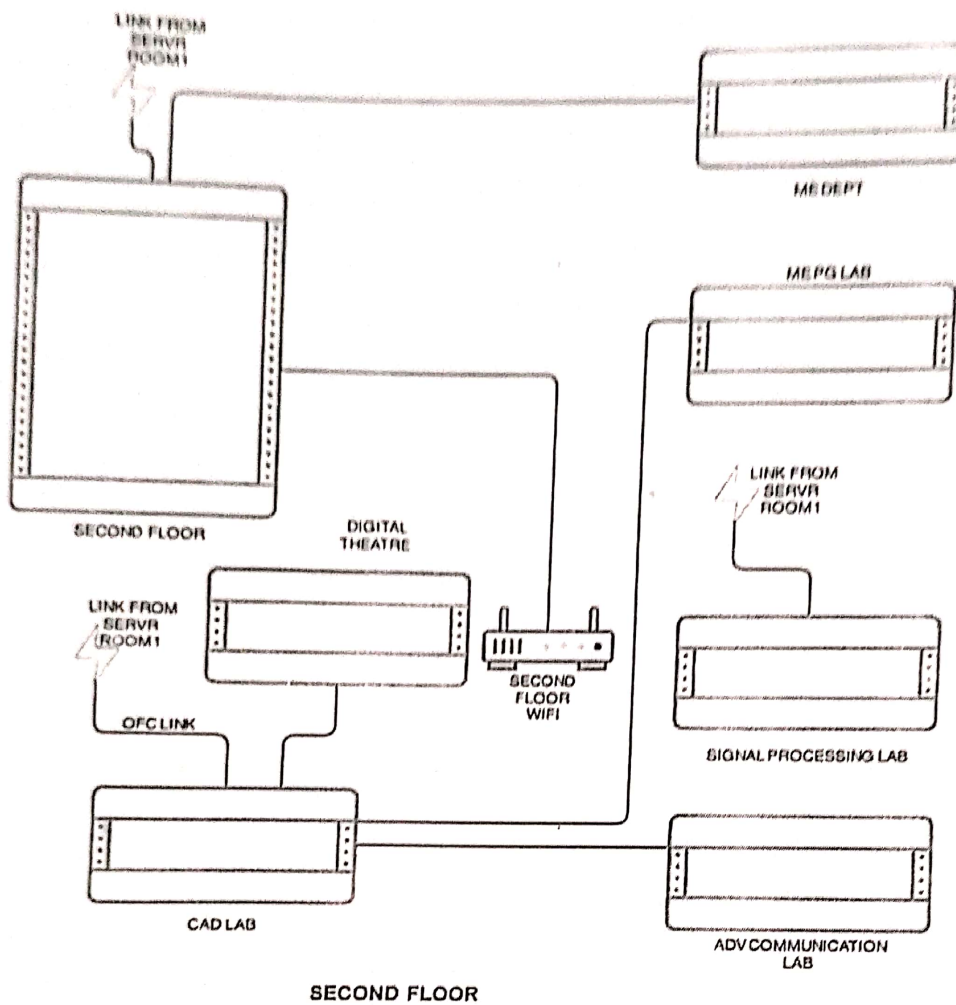


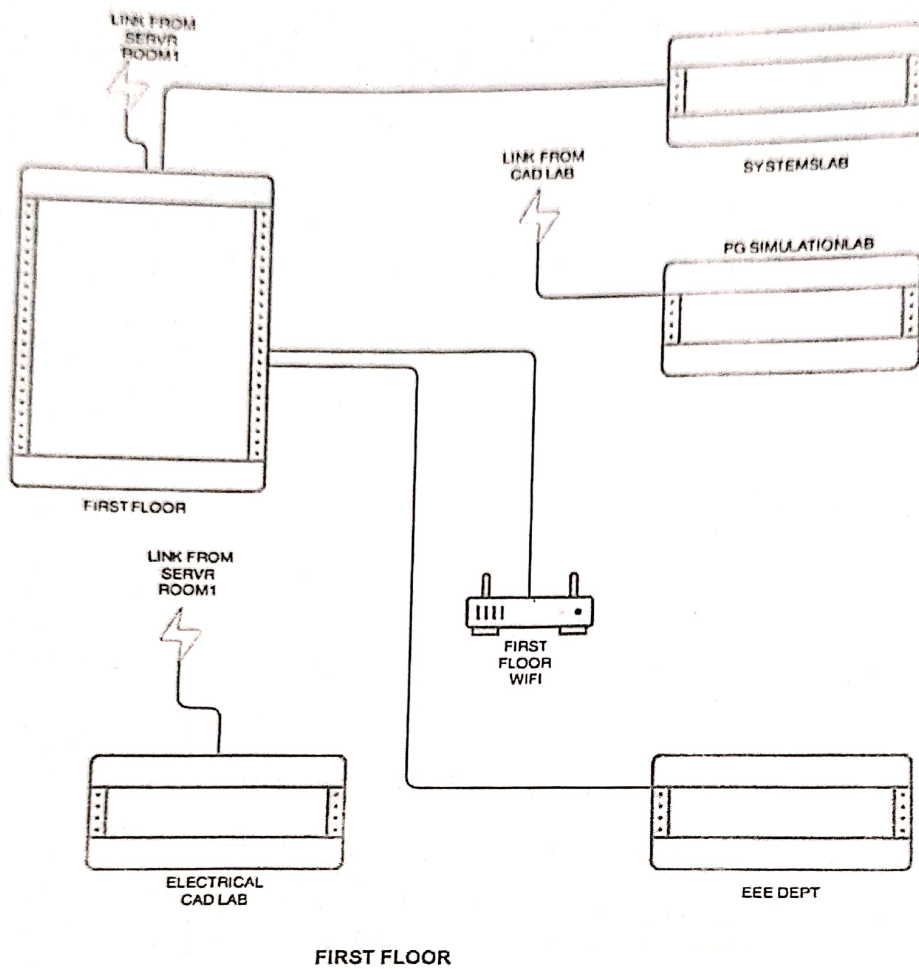


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Internet Connectivity

- o 1000 Mbps Bandwidth
- o Contention Ratio: - 1:1 ILL
- o Internet Service Providers: - BSNL ILL 1000 Mbps 1:1, Asianet -100 mbps, BSNL NMEICT-10mbps
- o Static IP Available
- o ISP Media:-OFC
- o 24 Hours Internet Connectivity

Servers

- o Redundant Power Supply
- o Redundant Storage
- o Redundant Network Connectivity

Equipment

ITEM	Make/Model	Qty	Location
SERVER	DELL POWER EDGE 2900	1	SERVER ROOM
PC SERVER	Dell Vostro 430	2	SERVER ROOM
PC SERVER	Lenovo	1	SERVER ROOM
PC SERVER	Lenovo	1	SERVER ROOM
PC SERVER	HP	1	SERVER ROOM

Projectors

No	Make/Model	Qty	Location
1	INFOCUS	1	m214
2	INFOCUS	1	m210
3	HITACHI	1	m212
4	INFOCUS	1	m301
5	INFOCUS	1	m302
6	INFOCUS	1	m306
7	INFOCUS	1	m309
8	INFOCUS	1	m310
9	INFOCUS	1	m311
10	INFOCUS	1	m415
11	INFOCUS	1	m411
12	INFOCUS	1	m410
13	INFOCUS	1	m409
14	INFOCUS	1	m407
15	INFOCUS	1	m406
16	INFOCUS	1	m405
17	INFOCUS	1	DMA LAB
18	INFOCUS	1	SP LAB
19	INFOCUS	1	N102
20	INFOCUS	1	N103
21	INFOCUS	1	N104
22	INFOCUS	1	N105
23	HITACHI	1	N106
24	INFOCUS	1	N Conf Hall
25	INFOCUS	1	N202
26	INFOCUS	1	N203
27	INFOCUS	1	N204
28	INFOCUS	1	N205
29	INFOCUS	1	N208
30	INFOCUS	1	N209
31	INFOCUS	1	N212
32	INFOCUS	1	N213
33	INFOCUS	1	N305
34	INFOCUS	1	N308
35	INFOCUS	1	N310
36	INFOCUS	1	N404
37	HITACHI	1	N405A
38	INFOCUS	1	N405B
39	INFOCUS	1	N406
40	INFOCUS	1	N407

41	INFOCUS	1	N408A
42	INFOCUS	1	N408B
43	INFOCUS	1	N409
44	INFOCUS	1	N302
45	INFOCUS	1	N311
46	INFOCUS	1	M204
47	INFOCUS	1	PROJECT LAB
48	INFOCUS	1	PAN LAB
49	INFOCUS	1	PHYSICS LAB
50	INFOCUS	1	CHEM LAB
51	INFOCUS	1	NSS
52	INFOCUS	1	M209
53	INFOCUS	1	M404
54	INFOCUS	1	M205
55	Panasonic	1	Digital Theatre
56	INFOCUS	1	M101
57	INFOCUS	1	M315
58	INFOCUS	1	M401
59	INFOCUS	1	M402
60	INFOCUS	1	M203
61	INFOCUS	1	Seminar Hall
62	INFOCUS	1	N402
63	INFOCUS	1	N403
64	INFOCUS	1	N409
65	INFOCUS	1	N410
66	INFOCUS	1	N411
67	Hitachi	1	Conf Hall1
68	Hitachi	1	Cafeteria
69	Hitachi	1	Conf Hall2





Biometric Staff Attendance

- o ESSL X990 Fingerprint Machines :- 6 Nos
- o ZKTECO Mini Plus Face Recognition:-1 Nos
- o Log Backup
- o Inter machine Roaming
- o Proximity Card Sensors

CCTV Surveillance

- o Exclusively for Examination Hall
- o IP Camera with night vision:- 110 Nos
- o Network Video Recorder:- 9 Nos
- o Total Distributed Storage Capacity:- 30 Terra Byte

EPABX

- o ISDN Provider:- BSNL
- o No Of Trunk Channels:- 30
- o No Of Extensions:- 40
- o Capacity Up to 200 Extensions

Power Back Up

- o Centralized Power Back Up for Entire Campus
- o DG Set Cummins 380 KVA,
- o UPS DB E10 120 KVA,
- o Back UP Batteries Exide Tubular -100Ah X 40 Nos

UPS: 120 kVA, Battery: 100Ah x 40nos.
Backup: 3-4hrs.

Generator: 380kVA
Fuel: 28L/hr

Computer Science Department

- o Computers:- 270 Nos
- o Printers / All in One:- 26 Nos
- o Wifi:- 3 Nos
- o Network Switch:- 26 Nos
- o Head phone:- 30 Nos
- o Scanner:- 1 No

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	7	CS DEPT	N412
PC	Dell Optiplex 3020	60	Research Lab	N207
PC	Dell Optiplex 3020	3	Language Lab	N305
PC	Dell Optiplex 3020	3	uP & HW LAB	N406
PC	Dell Vostro 3902	18	RISC Lab	N407
PC	Dell Vostro 3902	3	uP & HW LAB	N406
PC	Dell Vostro 430	2	CS DEPT	N312
PC	DELL VOSTRO 430	3	CS DEPT	N401
PC	Dell Vostro 430	3	CS DEPT	N412
PC	Lenovo H520	44	Central Computing Lab	N306
PC	LENOVO Think Centre e72	36	PAN LAB	
PC	LENOVO Think Centre E72	18	PG LAB	N407
PC	LENOVO Think Centre e72	36	DMA LAB	
PC	LENOVO Think Centre e72	18	Project LAB	
PC	LENOVO Think Centre e72	44	SP LAB	
PC	LENOVO Think Centre E73	3	uP & HW LAB	N406
PC	LENOVO Think Centre E73	18	PG LAB	N407
PC	LENOVO Think Centre E73	18	RISC	N408B
PC	LENOVO Think Centre e73	18	Project LAB	
PC	LENOVO ThinkCentre e73	48	Language Lab	N305
Printer	Canon LBP 2900	2	Research Lab	N207
Printer	Canon LBP 2900	3	Language Lab	N305
Printer	Canon LBP 2900	4	Central Computing Lab	N306
Printer	Canon LBP 2900	1	CS DEPT	N312

Printer	Canon LBP 2900	3	CS DEPT	N401
Printer	Canon LBP 2900	4	RISC	N408B
Printer	Canon LBP 2900	2	CS DEPT	N412
Printer	Canon LBP 2900	2	DMA LAB	
Printer	Canon LBP 2900	2	PAN LAB	
Printer	Canon LBP 2900	2	SP LAB	
Printer	Canon MF 3010	1	CS DEPT	N401
Network Switch	D Link 8 Port	1	CS DEPT	N401
Network Switch	D Link 8 Port	1	CS DEPT	N412
Network Switch	HP 24 PORT	2	PG LAB	N407
Network Switch	HP 24 PORT	1	RISC	N408B
Network Switch	HP 24 PORT	2	DMA LAB	
Network Switch	HP 24 PORT	2	PAN LAB	
Network Switch	HP 24 PORT	2	Project LAB	
Network Switch	HP 24 PORT	2	SP LAB	
Network Switch	HP 24 PORT	4	Language Lab	N305
Network Switch	HP 24 PORT	4	Research Lab	N207
Network Switch	HP 24 PORT	4	Central Computing Lab	N306
Network Switch	HP 24 PORT	1	CS DEPT	N401
Head Phone	iBALL	30	Language Lab	N305
Access Points	DLINK	1	CS DEPT	N312
Access Points	DLINK	1	CS DEPT	N401
Access Points	DLINK	1	Project LAB	
Scanner	Canon Lide 100	1	PAN LAB	

Electronics & Communication Department

- o Computers: - 170 Nos
- o Printers / All in One:- 11 Nos
- o Wifi:- 2 Nos
- o Network Switch:- 8 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	3	Circuits Lab	M211B
PC	ASSMBLD	1	Communication Lab	M312
PC	ASSMBLD	18	HW Lab /Workshop	M412
PC	ASSMBLD	11	IC Lab	M413
PC	ASSMBLD	1	EC Dept	M416
PC	Dell Vostro 430	2	Circuits Lab	M211
PC	Dell Vostro 430	36	Systems Lab	M211A
PC	Dell Vostro 430	18	uP & uC Lab	M304
PC	Dell Vostro 430	36	SIGNAL PROCESSING LAB	M304
PC	Dell Vostro 430	1	EC Library	M414
PC	Dell Vostro 430	3	EC Dept	M416
PC	Dell Vostro 430	4	EC Dept	
PC	Lenovo Think Centre e73	36	Adv Communication Lab	M312
Printer	Canon LBP 2900	2	Systems Lab	M211A
Printer	Canon LBP 2900	2	SIGNAL PROCESSING LAB	M304
Printer	Canon LBP 2900	2	Adv Communication Lab	M312
Printer	Canon LBP 2900	1	EC Dept	M416
Printer	Canon LBP 2900	3	EC Dept	
Printer	HP Laserjet 1008	1	HW Lab /Workshop	M412
Printer	d Link 8 Port	1	EC Dept	M416
Network Switch	dlink 24 port	1	HW Lab /Workshop	M412
Network Switch	HP 24 PORT	2	Systems Lab	M211A
Network Switch	HP 24 PORT	2	SIGNAL PROCESSING LAB	M304
Network Switch	HP 24 PORT	2	Adv Communication Lab	M312
Network Switch	HP 24 PORT	1	Communication Lab	M312
Access Points	DLINK	1	EC Dept	M416
Access Points	DLINK			

Electrical & Electronics Department

- o Computers: - 74 Nos
- o Printers / All In One:- 6 Nos
- o Network Switch:- 4 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	1	PG Power Electronics LAB	M202B
PC	ASSMBLD	18	PG Simulation Lab	M213
PC	Dell Vostro 430	34	Electrical CAD Lab	M202A
PC	Dell Vostro 430	1	PG Power Electronics LAB	M202B
PC	Dell Vostro 430	5	EEE DEPT	M206
PC	Dell Vostro 430	18	PG Simulation Lab	M213
PC	Dell Vostro 430	1	Electrical Measurements Lab	
PC	MAC	1	PG Simulation Lab	M213
Printer	Canon LBP 2900	3	EEE DEPT	M206
Printer	Canon LBP 2900	1	PG Simulation Lab	M213
Printer	Canon LBP 3000	1	EEE DEPT	M206
Printer	ZEBRA P330i	1	PG Simulation Lab	M213
Network Switch	d Link 8 Port	1	EEE DEPT	M206
Network Switch	HP 24 PORT	2	Electrical CAD Lab	M202A
Network Switch	HP 24 PORT	1	PG Simulation Lab	M213
Network Switch	HP 24 PORT	1	EEE DEPT	M206

Mechanical Department

- Computers:- 61 Nos
- Printers / All in One:- 4 Nos
- Wifi:- 1 Nos
- Network Switch:- 4 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	1	ME DEPT	
PC	ASSMBLD	36	CAD LAB	M314
PC	Dell Optiplex 3020	18	ME PG Lab	M313
PC	Dell Vostro 430	1	ME DEPT	
PC	Dell Vostro 430	1	ME DEPT	M305
PC	Dell Vostro 430	2	ME DEPT	M307
PC	Lenovo Think Centre e73	1	ME DEPT	M305
PC	Lenovo Think Centre e73	1	ME DEPT	M307
Printer	Canon LBP 2900	1	ME DEPT	
Printer	Canon LBP 2900	1	ME DEPT	M305
Printer	Canon LBP 2900	1	ME DEPT	M307
Printer	Canon LBP 2900	1	ME PG Lab	M313
Network Switch	D Link 8 Port	1	ME DEPT	M305
Network Switch	HP 24 PORT	1	ME PG Lab	M313
Network Switch	HP 24 PORT	2	CAD LAB	M314
Network Switch	HP 24 PORT	1	ME DEPT	M305
Media Converter		1	CAD LAB	M314
Access Points	DLINK	1	ME DEPT	M307

Civil Department

- o Computers: - 78 Nos
- o Printers / All in One:- 6 Nos
- o Network Switch:- 8 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	Dell Optiplex 3020	18	CE PG Lab	N210
PC	Dell Vostro 3902	55	CE Lab	N206
PC	Dell Vostro 430	3	CE Dept	N201
PC	Dell Vostro 430	1	CE Dept	N214
PC	Lenovo H520	1	CE Dept	N201
Printer	Canon LBP 2900	2	CE Dept	N201
Printer	Canon LBP 2900	2	CE Lab	N206
Printer	Canon LBP 2900	1	CE Dept	N214
Printer	HP Laserjet 1008	1	CE Lab	N206
Network Switch	D Link 8 Port	1	CE Dept	N201
Network Switch	d Link 8 Port	1	CE Dept	N214
Network Switch	HP 24 PORT	4	CE LAB	N206
Network Switch	HP 24 PORT	1	CE PG Lab	N210
Network Switch	HP 24 PORT	1	CE Dept	N201

MBA Department

- o Computers: - 9 Nos
- o Printers / All in One:- 3 Nos
- o Wifi:- 1 Nos
- o Network Switch:- 2 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	3	MBA DEPT	N101
PC	Lenovo H520	4	MBA DEPT	N101
PC	Lenovo H520	1	MBA LIBRARY	N107
PC	LENOVO Think Centre e73	1	MBA LIBRARY	N107
Printer	Canon LBP 2900	3	MBA DEPT	N101
Network Switch	DLINK 24 PORT	1	MBA DEPT	N101
Network Switch	HP 24 PORT	1	MBA DEPT	N101
Access Points	Linksys	1	MBA DEPT	N101

Basic Science Department

- o Computers: - 5 Nos
- o Printers / All in One:- 2 Nos
- o Network Switch:- 2 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	1	BSD	N301
PC	Lenovo H520	1	BSD	N301
PC	Lenovo H520	1	CHEM LAB	
PC	Lenovo H520	1	PHY LAB	
Printer	Canon LBP 2900	2	BSD	N301
Network Switch	HP 24 PORT	1	BSD	N301

Library

- o Computers:- 15 Nos
- o Printers / All in One:- 1 No
- o Bar Code Scanners:- 2 Nos
- o Bar Code Printers:- 1 No
- o Network Switch:- 2 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	3	Library	
PC	Dell Optiplex 3020	9	Library	
PC	Dell Vostro 3902	1	Library	
PC	Lenovo H520	2	Library	
Printer	HP Laserjet 1007	1	Library	
Network Switch	Dintek 16 Port	1	Library	
Network Switch	HP 24 PORT	1	Library	
Barcode Printer	Data Max	1	Library	
Barcode Reader	Data Logic/PSC QuickScan 6500	2	Library	

Exam Cell

- o Computers:- 4 Nos
- o Printers / All in One:- 4 No
- o Network Switch:- 2 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	1	MG Exam Cell	M209
PC	Dell Vostro 430	1	MG Exam Cell	M209
PC	Lenovo H520	2	examm cell	M116
Printer	Canon LBP 2900	2	MG Exam Cell	M209
Printer	HP M605dn	2	examm cell	M116
Network Switch	D link 8 Port	1	examm cell	M116
Network Switch	Dlink 8 Port GBPS	1	examm cell	M116

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Placement Cell

- Computers: - 6 Nos
- Printers / All in One:- 1 No
- Network Switch:- 1 Nos

Item	Brand/Model	Qty	Location / Dept	R No
PC	Dell Vostro 430	1	Placement	M109
PC	Lenovo ThinkCenter e72	14	Placement	M109
Printer	Canon MF 3010	1	Placement	
Network Switch	HP 24 PORT	1	Placement	

Office & Administration

- Computers: - 32 Nos
- Printers / All in One:- 12 Nos
- Copier:-3 Nos
- Network Switch:- 6 Nos
- Scanner:-1 No

Item	Brand/Model	Qty	Location / Dept	R No
PC	ASSMBLD	6	Office	M105
PC	ASSMBLD	1	STORE	
PC	Dell Optiplex 3020	2	Doc Room	
PC	Dell Vostro 430	6	Office	M105
PC	Dell Vostro 430	1	LA	M110
PC	Dell Vostro 430	1	Admission	M114
PC	Dell Vostro 430	1	HR	M115
PC	HP DX2080	1	Office	M105
PC	Lenovo H 520	1	Princ Asst	M106
PC	Lenovo H520	5	Office	M105
PC	Lenovo H520	1	Admission	M114
PC	LENOVO H520	1	STORE	

PC	Lenovo Think Centre e72	2	Office	M105
PC	Lenovo Think Centre e73	1	PRINCIPAL	M108
PC	Lenovo Thinkcentre e72	1	HR	M115
PC	Lenovo Thinkcentre e73	1	Chairman	
Printer	Canon LBP 2900	3	Office	M105
Printer	Canon LBP 2900	1	PRINCIPAL	M108
Printer	Canon LBP 2900	1	Admission	M114
Printer	Canon LBP 2900	1	STORE	M118
Printer	Canon LBP 2900	1	proj in charge	
Printer	Canon MF 3010	1	Office	M105
Printer	Canon MF 3010	1	HR	M115
Printer	EPSON L130	1	STORE	
Printer	HP Laserjet 1007	1	Office	M105
Printer	HP Laserjet 1008	1	Office	M105
Scanner	Canon Lide 100	1	Office	M105
Network Switch	D-Link 8 Port	1	STORE	M118
Network Switch	DIGISOL 8 Port	1	Office	M105
Network Switch	D-link 16 Port	1	Doc Room	
Network Switch	D-link 5 Port	1	Office	M105
Network Switch	D-link 5 Port	1	Rec	
Network Switch	HP 24 PORT	1	Office	M105
Copier	Canon IR 3025	1	Office	M105
Copier	Canon IR 3225	1	Doc Room	
Copier	RISO	1	STORE	
Access Points	D-link	1	Office	M105

LOCATION	IP
Eng Block Ground Floor	
M101	192.168.236.1 ✓
	192.168.236.2 ✓
Eng Block First Floor	192.168.236.3 ✓
M203	192.168.236.4 ✓
	192.168.236.5 ✓
M204	192.168.236.6 ✓
	192.168.236.7 ✓
M205	192.168.236.8 ✓
	192.168.236.9 ✓
M210	192.168.236.10 ✓
	192.168.236.11 ✓
M214	192.168.236.12 ✓
	192.168.236.13 ✓
Eng Block Second Floor	192.168.236.14 ✓
M301	192.168.236.15 ✓
	192.168.236.16 ✓
M302	192.168.236.17 ✓
	192.168.236.18 ✓
M306	192.168.236.19 ✓
	192.168.236.20 ✓
M310	192.168.236.21 ✓
	192.168.236.22 ✓
M311	192.168.236.23 ✓
	192.168.236.24 ✓
M315	192.168.236.25 ✓
	192.168.236.26 ✓
Eng Block Third Floor	192.168.236.27 ✓
M401	192.168.236.28 ✓
	192.168.236.29 ✓
M402	192.168.236.30 ✓
	192.168.236.31 ✓
M405	192.168.236.32 ✓
	192.168.236.33 ✓
M407	192.168.236.34 ✓
	192.168.236.35 ✓
M409	192.168.236.36 ✓
	192.168.236.37 ✓
M410	192.168.236.38 ✓
	192.168.236.39 ✓
M415	192.168.236.40 ✓
	192.168.236.41 ✓
KTU EXAMCELL	192.168.236.93 ✓
	192.168.236.94 ✓
	192.168.236.95
REC	192.168.236.96
REC	192.168.236.97
NEW BLDNG Grnd Floor	192.168.237.1 ✓
N102	192.168.237.2 ✓

22

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Eliumondor



	192.168.237.3 ✓
	192.168.237.4 ✓
N103	192.168.237.5 ✓
	192.168.237.6 ✓
N104	192.168.237.7 ✓
	192.168.237.8 ✓
N105	192.168.237.9 ✓
	192.168.237.10 ✓
N106	192.168.237.11 ✓
	192.168.237.12 ✓
NEW BLDNG First Floor	192.168.237.13 ✓
N202	192.168.237.14 ✓
	192.168.237.15 ✓
N203	192.168.237.16 ✓
	192.168.237.17 ✓
N208	192.168.237.18 ✓
	192.168.237.19 ✓
N209	192.168.237.20 ✓
	192.168.237.21 ✓
N212	192.168.237.22 ✓
	192.168.237.23 ✓
N213	192.168.237.24 ✓
	192.168.237.25 ✓
NEW BLDNG Second Floor	192.168.237.26 ✓
N302	192.168.237.27 ✓
	192.168.237.28 ✓
N303	192.168.237.29 ✓
	192.168.237.30 ✓
N304	192.168.237.31 ✓
	192.168.237.32 ✓
N307	192.168.237.33 ✓
	192.168.237.34 ✓
N308	192.168.237.35 ✓
	192.168.237.36 ✓
N309	192.168.237.37 ✓
	192.168.237.38 ✓
N310	192.168.237.39 ✓
	192.168.237.40 ✓
N311	192.168.237.41 ✓
	192.168.237.42 ✓
NEW BLDNG Third Floor	192.168.237.43 ✓
N402	192.168.237.44 ✓
	192.168.237.45 ✓
N403	192.168.237.46 ✓
	192.168.237.47 ✓
N404	192.168.237.48 ✓
	192.168.237.49 ✓
N409	192.168.237.50 ✓
	192.168.237.51 ✓
N410	192.168.237.52 ✓

(27)

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[Signature]

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	192.168.237.53
	192.168.237.54
Arts A Ground Floor	192.168.236.42
101	192.168.236.43
	192.168.236.44
102	192.168.236.45
	192.168.236.46
104	192.168.236.47
	192.168.236.48
105	192.168.236.49
	192.168.236.50
Arts A First Floor	192.168.236.51
202	192.168.236.52
	192.168.236.53
203	192.168.236.54
	192.168.236.55
204	192.168.236.56
	192.168.236.57
205	192.168.236.58
	192.168.236.59
Arts A Second Floor	192.168.236.60
301	192.168.236.61
302	192.168.236.62
Arts B Ground Floor	192.168.236.63
SH	192.168.236.64
	192.168.236.65
	192.168.236.66
	192.168.236.67
Arts B First Floor	192.168.236.68
202	192.168.236.69
	192.168.236.70
203	192.168.236.71
	192.168.236.72
204	192.168.236.73
	192.168.236.74
205	192.168.236.75
	192.168.236.76
Arts B Second Floor	192.168.236.77
302	192.168.236.78
	192.168.236.79
303	192.168.236.80
	192.168.236.81
304	192.168.236.82
	192.168.236.83
Bed College	192.168.236.84
	192.168.236.85
	192.168.236.86
	192.168.236.87
	192.168.236.88
	192.168.236.89


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	192.168.236.90
	192.168.236.91
	192.168.236.92
MASAP	192.168.10.240
	192.168.10.241
	192.168.10.242
	192.168.10.243
	192.168.10.244
	192.168.10.245
	192.168.10.246
SMASK	255.255.255.0
GW	192.168.236.250
	192.168.237.250
	192.168.10.1


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Software

- o Licensed Software
- o Microsoft Campus Agreement (OVS-ES)
- o Open Source Software

Application Software

1	ORACLE 10G	33	Visio Premlum 2010
2	OFFICE 2003	34	Project Professional 2010
3	SYMANTEC CORPORATE EDITION	35	Expression Web
4	BORLAND JUILDER X DEVELOPER	36	Office XP Suites
5	ADOBE CREATIVE SUITE PREMIUM	37	Office 2010 Suites
6	MACROMEDIA STUDIO MX 2004 FULL		
7	SIEMENS SOLID EDGE ST4+ NX CAM EXPRESS		
8	IBM SPSS		
9	PRAGATI-EXAM MANAGEMENT SOFTWARE		
10	STAAD		
11	MATLAB		
12	ETAP SOFTWARE		
13	ETNL LANGUAGE LAB SOFTWARE		
14	ANSYS ACADEMIC RESEARCH HF		
15	PSCAD		
16	MENTOR GRAPHICS,& XILINX SYSTEM EDITION		
17	ETNL LANGUAGE LAB SOFTWARE		
18	SOLID WORKS		
19	PRIMAVERA CONTRACTOR		
20	TALLY		
21	TURBO C++ SUITE		
22	IBM RATIONAL SEED PROGRAM		
23	AUTODESK 3DS MAX		
24	AUTODESK AUTOCAD		
25	AUTODESK REVIT		
26	AUTODESK MAYA		
27	AUTODESK AUTOCAD ELECTRICAL		
28	AUTODESK AUTOCAD MECHANICAL		
29	AUTODESK RECAP		
30	AUTOCAD MEP		
31	Office 2007 Applications		
32	Office 2003 Suites		

System Software

1	LINUX FEDORA CORE 2
2	RED HAT PROFESSIONAL
3	Windows Server 2003
4	Win 7
5	Windows Server 2003 R2, x32 Ed.
6	Windows Vista
7	Windows XP Professional
8	Win SBS Std/Essentials 2011
9	Win Srv 2008 Data Centre
10	Windows Cluster Server
11	Windows Vista
12	Windows 8.0
13	Windows 10
14	SLP Server Standard
15	Windows Server 2008 Std/Ent


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Paper





Supplier: Online

Electronic Details attached

Email: bijumangalam@hotmail.com

Web Site

Accounts


User name	Associated Email Addresses	Registrar
bijumangalam	bijumangalam@hotmail.com	Godaddy
mlmce	td@mangalam.com	Godaddy
mangalam	ajith@mangalam.com	Name.com
RegNo: R130418318	biju.varghese@mangalam.in	ERNET India
RegNo: R130418319	biju.varghese@mangalam.in	ERNET India
Eidho	Ongoing Projects	NA

1. Domain Name

SIN o	Domain Name	Associated User	Host	Location	Expiry Date
1	mangalam.ac.in	RegNo: R130418318	mangalamschool.com	\mlmce	18-Apr-2018
2	mangalam.edu.in	RegNo: R130418319	mangalamschool.com	\mlmce	18-Apr-2018
3	beakon.net	mlmce	mangalamschool.com	\BEACON	3-may-2019
4	kannyaka.in	mlmce	HO	HO	21-apr-2019
5	mangalam.com	mlmce	HO	HO	23-dec-2018
6	mangalam.in	mlmce	mangalamschool.com	\mlmce	16-feb-2019
7	mangalam.net	mlmce	mangalamschool.com	\mlmce	30-nov-2018
8	mangalamcampus.com	mlmce	mangalamcampus.com	\	17-may-2019
9	mangalameducation.org	mlmce	mangalamschool.com	\mec	14-dec-

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10	mangalamgroup.co.in	mlmce	Not Hosted Yet	NA	2018 18-sep-2018
11	mangalamhospitals.com	mlmce	mangalamcampus.com	\HOSPITALS	6-july-2019
12	mangalammba.com	mlmce	mangalamcampus.com	\MBA	30-mar-2018
13	mangalampublicschool.com	mlmce	mangalamschool.com	\cbse	4-feb-2018
14	mangalamschool.com	mlmce	mangalamschool.com	\(Not Hosted)	24-aug-2018
15	masap.in	mlmce	mangalamschool.com	\Masap	11-jan-2019
16	mcvarghese.com	mlmce	mangalamcampus.com	\MCVC	14-mar-2018
17	mlmcealumni.org	mlmce	mangalamcampus.com	\mlmcealumni	17-feb-2019
18	radiomangalam.com	mlmce	Eldho	NA	11-jan-2019
19	radiomangalam.in	mlmce	Eldho	NA	11-jan-2019
20	toshmaskitchen.com	mlmce	mangalamschool.com	\toshmaskitchen	26-aug-2018
21	mial.in (Discontinued)	mlmce	mangalamschool.com	\MIAL	Expired
22	mediamangalam.com	bijumangalam	Eldho	NA	9-Jan-2019
23	eltouchsolutions.com	bijumangalam	Eldho	NA	12-Apr-2019
24	thalmangalam.net	mangalam	mangalamcampus.com	\thalmangalam	24-Mar-2018
25	thalmangalam.mobi	mangalam	mangalamcampus.com	\thalmangalam	24-Mar-2018
26	thalmangalam.com	mangalam	mangalamcampus.com	\thalmangalam	24-Mar-2018
27	thalmangalam.in	mangalam	mangalamcampus.com	\thalmangalam	24-Mar-2018


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28	technolodgemit.com	Eldho	Eldho	NA	7- May- 2018
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2. Hosting Account

S/No	Type	Host	IP Address	FTP Address	Expiry Date
1	Windows Shared	mangalamcampus.com	182.50.130.118	d0a.97d.myftpupload.com	8-May-2018
2	Windows Shared	mangalamschool.com	182.50.130.117	dcb.af8.myftpupload.com	24-Aug-2018

3. Back End Database

S/No	Type	Host	name	Associated Dornain
1	MS SQL	mangalamcampus.com	mlmcealumndb	mlmcealumni.org
2	My SQL	mangalamcampus.com	mangalacampus	mangalamcampus.com
3	My SQL	mangalamcampus.com	thalmangalam	thalmangalam.com
4	MS SQL	mangalamschool.com	toshmas	toshmaskitchen.com
5	MS SQL	mangalamschool.com	mlmcedb	mangalam.ac.in
6	My SQL	mangalamschool.com	beakonn1	beacon.net
7	My SQL	mangalamschool.com	tlssertemasap	masap.in
8	My SQL	mangalamschool.com	tisserial	mial.in (Discontinued)
9	My SQL	mangalamschool.com	man1528810153067	mangalameducation.org
10	My SQL	mangalamschool.com	man1606309210513	mangalampublicschool.com

4. Online Admission / Enquiry on Websites

1. masap.in

url: www.masap.in/admin

admission@mangalam.in INBOX via mail

2. mangalam.ac.in

Google Sheet online Admission Form, Admission Enquiry Form in admission@mangalam.in

3. mangalamcampus.com

admission@mangalam.in INBOX via mail

4. beacon.net

Google Sheet beacon Registration in admission@mangalam.in

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5. Face Book Pages

Face book Admin Account fbaccount@mangalam.in

1. www.facebook.com/mangalamcampus
2. www.facebook.com/MangalamCollege
3. www.facebook.com/mmsatmangalam
4. www.facebook.com/beacon.net
5. www.facebook.com/RadioMangalam
6. www.facebook.com/Mangalam-CBSE-Senior-Secondary-School-Ettumanoor-228128007389396
7. www.facebook.com/Mangalam-Butterflies-Euro-Kids-598330566914885
8. www.facebook.com/Mangalam-College-Of-Education-Ettumanoor-422261607908528/
9. www.facebook.com/mcvarghesecollege
10. www.facebook.com/MC-Varghese-College-of-Arts-Science-Ettumanoor-441630165967755/
11. www.facebook.com/Mangalam-English-Mediam-School-Ettumanoor-452455474882056/

6. CMS Login

1. <http://mangalamcampus.com/administrator>
2. <http://mangalampublicschool.com/wp-admin>
3. <http://mangalameducation.org/wp-admin>
4. <http://beakon.net/wp-admin>

7. General Information

Mangalam.ac.in is a basic Static HTML website without using any templates and Dynamic Faculty profile pages using ASP.NET developed by Mr. Deepesh Divakaran (Ex. AP in CS Dept)

Limitations:-

1. We have to edit all pages to modify a common item such as a menu
2. We have to access backend to modify the Dynamic Faculty Profile Pages

Beakon.net is Dynamic Word press website Developed by Alen technologies

Mangalameducation.org is a Dynamic Word press Web site

Mangalamhospitals.com Is a Basic Static HTML Website Developed ByChirayil Infotech

Mangalammba.com Is a a Basic Static HTML Website Developed By Chirayil Infotech

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mangalampublicschool.com is a Dynamic Wordpress Website

Masap.in is a Dynamic Website Developed by Tisser Technologies

Mcvarghese.com is a Basic Static HTML website Developed By Mr.Bilas Joseph (Ex. AP in CS Dept Of MCVC)

mimcealumni.org is an ASP.Net Dynamic Website Developed by AuxBrains and managed by College Alumni Team

Radiomangalam.com is Under Development By 1minfomedia (Eldho)

Tashmaskitchen.com is an ASP.Net Dynamic Website Developed by EsqTech(Sadique)

Thalimangalam.com is under ongoing Up gradation process...

Status:-

1. We Don't have backend access to the existing Host (Present portal has some limitations like absence of Payment Gateway, SMS Verification, etc)
2. We brought a low cost Matrimony Script from Scubez.in to upgrade the Portal with minimum required features.
3. Integrated the Payment Gateway using Epaykerala and configured the Gateway in Test mode (Contact Epaykerala to switch On real mode).
4. Team Thalimangalam is now adding Genuine profiles to the test portal test.mangalam.in
5. We may Go live with the revamped portal after creating large number of Genuine profiles to the Portal and testing everything.

technolodgemit.com is Under Development By 1minfomedia (Eldho)

mediamangalam.com is Under Development By 1minfomedia (Eldho)

eltouchsolutions.com is Under Development By 1minfomedia (Eldho)

Note:- Please visit domain registrar portal at least once in a month to avoid the Domain / Hosting Account Cancellation. Always remember to do the renewals before at least one month


E Mail

We are using Google Apps (Currently G Suite) Education with Domain name mangalam.in

Accounts with Admin Privileges:-

1. biyu.varghese@mangalam.in
2. vilai.joseph@mangalm.in
3. admin01@mangalam.in

Account used for Automated Reply


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1. noreply@mangalam.in
Associations: mlmcealumni.org, 192.168.200.253 SMTP Rely, Campus Network One Time Link

Operations: -

1. Creation and Deletion Of User Accounts as required (During Joining / Relieving)
2. Adding Or Deleting Users to Different Email Groups
3. Password Reset on proper Request

Note: - Never remove email account of important persons. Instead restrict access by Suspending the User or Changing the Password...

Library Management Software

We are using Open Source Library Management Product Koha in Our Campus. Koha DVD image can be downloaded at any time since it is open source.

Server OS:-Ubuntu

IP Address:-192.168.240.1

SMTP Rely Server: 192.168.200.253

Note: - Ensure librarians send Daily full Backup to SA

Accounting Software

We are using Tally ERP9 as accounting software

Server OS:-Windows 2008 R2

License Server IP Address:-192.168.200.253

License Server Port: 10000

Data Path for Organisations under Mangalam Educational Society is \\192.168.200.253\mes

Data Path for Organisations under Mangalam Foundation is \\192.168.200.253\mf

Data Path for Finance Officers and Senior Finance Officers is \\192.168.200.253\data (Those who requires access permissions to Both MES & MF)

Biometric Attendance

We are using Biometric Attendance Machine ESSL X990

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SSI comes with an Application EtimeTrack Lite having limited Standard Features at free of cost. It can be used to generate various kind of attendance reports manually

S/No	Location	IP	Database	Status
1	MLMCE-Main-Gnd	192.168.200.201	etimetracklite1	Active
2	MCVC	192.168.200.222	etimetracklite1	Active
3	CSE	192.168.234.50	etimetracklite1	Active
4	ME	192.168.200.209	etimetracklite1	Active
5	EC	192.168.200.202	etimetracklite1	Retired
6	CE	192.168.234.51	etimetracklite1	Active
7	EEE	192.168.200.204	etimetracklite1	Active
8	MBA	192.168.234.52	etimetracklite1	Active
9	CBSE	192.168.200.205	etimetracklite2	Active
10	State School	192.168.200.236	etimetracklite2	Active
11	MASAP	192.168.10.222	Access Database	Active

SQL Server: 192.168.200.253\sqlexpress

Operations:-

1. Enroll / Delete Employees as directed by HR
2. Enroll additional fingers in case of Skin problems with employees on request
3. Download Users to DB periodically from All Punching Machine
4. Upload Users to available alternate Device in case of Device failures
5. Provide Tech Support to HR on request
6. Ensure Daily full Back Up

Note:-Engineering College Punching Machines are also integrated with Campus Management Software-Elive to perform automated Leave /Attendance/Salary Computations. Elive Team Installed a module in Elive Server to download the Attendance logs from the device to the Database periodically

Campus Management Software

Recently we started using Elive As Campus management Software. We are in Transformation Stage to Elive Platform. Now the software hosted in an ordinary PC Server

IP Address:-192.168.200.210

1. Ensure the Availability of the Server
2. Provide Remote Access to the Developers on Proper request with Authorization
3. Ensure Daily Full Back Up

Note:- Software should be hosted to a Real Server with sufficient resources to overcome the performance issues..


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SMS Gateway

Provider: SMS Gupshup

URL: <http://enterprise.msgupshup.com/>

Contact Person: George Mob:9605556198

Renewal Date: Jun 16, 2018

Associated Email: yijal.joseph@mangalam.in -Changeable

Associated Mob:9446000569 - Changeable

API Associations: thallimangalam.com (New), Campus Network OTP

Back Up

Ensure Daily Full Back Up of the Following Items

1. Tally Data located at \\192.168.200.253\data
2. AMS Database In SQL Server 192.168.200.253\SQLEXPRESS
3. etimetracklite1 Database In SQL Server 192.168.200.253\SQLEXPRESS
4. etimetracklite2 Database In SQL Server 192.168.200.253\SQLEXPRESS
5. msis Database In SQL Server 192.168.200.253\SQLEXPRESS
6. db_EliveMangalamLive In SQL Server 192.168.200.210
7. Koha Database BackUp from Library Server
8. Cyberoam Configuration BackUp
9. Cyberoam Exported user Back Up
10. NAS Server Configuration BackUp

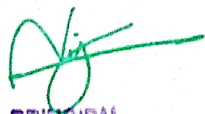
Ensure Entire Website Back Up once In every year

Internet Access Account

Students & Staff members need to self enroll to obtain access to Campus internet facility according to Our Campus IT Policy.

Operations:-

1. Create Groups & apply Policies for every batches after Closure of Admission and Then Collect Library Codes From librarian and map the library codes with corresponding groups, Validity term(2 for PG, 3 for Arts UG, 4 for UG, 5 For Arch, etc) and insert this in to m_member table of miss database on 192.168.200.253\SQLEXPRESS.



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2. Import the Users exported from MSIS to the Cyberoam and Update Users as Activated in MSIS
3. Delete Activation Request if requested by a student with Identity Card / Staff
4. resend OTP SMS / OTL email if requested by a student with Identity Card / Staff
5. Mark user as Fake in MSIS portal if needed and delete the user from Cyberoam also
6. De Activate Passed Out Batch

Notes:- Staff members must have to use Official mangalam.in email address for Internet enrollment. MSIS portal send notification mail to admin on each enrollment and Allows admin to export all the users enrolled after the last activation till the last midnight. MSIS Also allows admin to Search users using Mobile/Email/library Code to find Fake Attempts..

It is also possible to allow Internet access using MAC Address authentication for very important persons

Internet Connectivity

SlNo	Provider	Media	Band Width	Type	College	Static IP	ISP Terminated location
1	BSNL	OFC	10 MBPS	NMEICT	MLMCE	117.211.161.156	Main Blk Server Room
2	BSNL	OFC	10 MBPS	NMEICT	MEC	117.211.164.86	Main Blk Server Room (via E1 modem near EPABX)
3	BSNL	OFC	10 MBPS	NMEICT	MCVC	117.211.164.87	Main Blk Server Room
4	ASIANET	OFC	100 MBPS	Broadband	MLMCE	202.164.149.5	MBA Blk Server Room
5	BSNL	Copper Pair	4 Mbps upto 30 GB, 2 Mbps beyond 30 GB	BroadBand	MASAP	117.218.76.93	MASAP
6	Cable	OFC		Broadband	MASAP	Nil	MASAP

Note:-

1. BSNL Connections are Configured for Load Balancing
2. Asianet Connection is Configured for Radio Uplink & Chairman's Office, Also as Back Up against BSNL failure


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Servers

1. Dell Power Edge 2900
OS: Windows 2008 R2
IP: 192.168.200.253
ams.mangalam.in
mes.loc

Roles:-

Active Directory Domain Services
DNS Server
File Services
Web Server(IIS)
Network Policy & Access Services

Uses:-

SMTP Relay Server for library notification mails, FTP Server, Tally License Server, Tally File Server, Group Policy to Prevent Pen Drive Access in Lab Computers, IIS to host ITRMS,MSIS, etc..., SQL Server databases AMS,etimetacklite1, etimetacklite2, miss, etc

2. Dell PC Server
IP: 192.168.200.216

Uses:-

Back Up Server, FTP Server, AutoCad License Server, AutoCad Electrical License Server, etc

3. Dell PC Server
IP: 192.168.200.252

Uses:-


To Host MG University Exam Management Software Pragati

4. Lenovo PC Server
IP: 192.168.200.210 (Note: Remote Desktop Access provided to Developers through 202.164.149.5)

Uses:-

To Host ELive Software

5. HP PC Server
OS:FreeNAS


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IP 192.168.200.247

user	path	Location	Drive letter
ce	\\192.168.200.247\storage\ce	CE Dept	X
college	\\192.168.200.247\storage\college	All Depts	Z
cse	\\192.168.200.247\storage\cse	CS Dept	X
ece	\\192.168.200.247\storage\ece	EC Dept	X
eee	\\192.168.200.247\storage\eee	EEE Dept	X
hr	\\192.168.200.247\storage\hr	HR	X
me	\\192.168.200.247\storage\me	ME Dept	X

CCTV

Attached CCTV Stock Details, IP Addresses, Credentials, etc

Campus Network

Campus Network Consists of Media Converters, E1 Modem, Firewall, Switches, WIFI Access points, etc.

Firewall Details

- Model: Cyberoam 500ING at Engg College,

500ING Renewal: 03 Feb 2019

Supplier: Comtech Systems, Aleppey

Contact: Shiju K Balan, Mob: 9746690000

DHCP1: 172.16.16.0/24 - 172.16.16.2-172.16.16.254

DHCP2: 172.16.8.0/22 - 172.16.8.2- 172.16.8.254, 172.16.9.2- 172.16.9.254, 172.16.10.2- 172.16.10.254

DHCP3: 172.16.0.0/22 - 172.16.0.2-172.16.0.253, 172.16.1.2-172.16.1.254, 172.16.2.2-172.16.2.254

DHCP4: 192.168.40.0/24 - 192.168.40.1- 192.168.40.245

- Cyberoam 15ING at MASAP

15ING Renewal: 12 Nov 2020

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DHCP1:192.168.10.0/24

Supplier: Comtech Systems, Aleppey

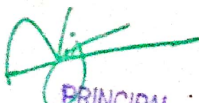
Contact: Shiju K Balan, Mob: 9746690000

- SITE TO SITE IP SEC VPN BETWEEN MASAP & MLMCE 192.168.10.0 -192.168.200.0

(To Access Tally Server from MASAP & MASAP Punching Machine from MLMCE using BSNL Connection at MASAP)

- Different IP Network used for different Labs (Detailed Excel Sheet attached)
- Inter network communication allowed only where it is necessary (Using Firewall Policies instead of several Ethernet Routers to reduce Cost)

OFC Link Reference


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