

CRITERION 10	e-GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120
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10.4.2. Internet (10)

Internet service provider and bandwidth

The internet has become a crucial and indispensable resource in educational institutions, particularly in the domain of higher education. In contemporary academic settings, effective Teaching-Learning Processes (TLP) and research activities rely heavily on robust internet connectivity. The integration of Information and Communication Technology (ICT) into TLP has proven to be essential for fostering effective and impactful academic outcomes.

Recognizing the significance of internet access, **ATME College of Engineering** has ensured the provision of reliable and high-speed broadband internet services across the campus. To maintain uninterrupted connectivity, the institution has also implemented backup internet services that can be utilized in case of emergencies or technical disruptions. This proactive approach underscores the institution's commitment to ensuring seamless access to online resources, which are vital for academic and research purposes.

Furthermore, the college extends its internet facilities to the hostels, enabling students residing on campus to access the internet for their academic, research, and personal needs. This comprehensive approach to providing internet services ensures that both faculty and students have the necessary tools to excel in their teaching, learning, and research endeavors, making ATME College of Engineering a conducive environment for holistic educational growth.

The internet Service Provider, Bandwidth and the Location details are as mentioned in the table 10.42.

Table. 10.42 : Internet Details

Service Provider	Bandwidth	Location
YASHTEL Leased Line	1Gbps	College Campus
YASHTEL SME Broad Band	150 Mbps	College Incubation Center
BSNL BROADBAND NME	50Mbps, 100GB per month, 2 connections (FTTH)	Backup line for Exam Control Center and Server

LAN and Wi-Fi Network configurations

ATME college of engineering has a well connected network covering the whole campus. The network facility is provided to every faculty member and as well as students students. A dedicated IT team monitors the network distribution and security aspects.

A server manages the network and secured by a firewall or network security device. LAN facility is provided to all departments (Labs, Office, Department Office, Library) and to every faculty member and it operates at the speed of 100Mbps to 1000Mbps (Fig. 10.42). Gigabit switches are implemented for the fast transport of data. The LAN is also utilized for CCTV monitoring of various locations in the campus. Ethernet connections are made available in the classrooms for making them smart with the provision of internet facility.

The complete campus is provided with the facility of wi-fi so that the all stake holders can access both internet and intranet information throughout the campus. The digital library is accessible both on the internet and intranet which provides an ample of opportunity to the students and faculty to refer to the contents on the go or where ever they need.

The faculty and students are provided the firewall login through which they login to the network and access the desired information. The Wi-Fi access points set up through-out the campus and the details are as given in the table 10.43.

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Fig.10.41 : Internet YASHTEL Leased Line & Broad Band, BSNL Broad Band Invoices

Yashash

CABLE NETWORK PRIVATE LIMITED
Tax Invoice



e-Invoice



IRN : 8310c1653bebbb3af3889fcb813e8ec96e058659932b-596b9aa9c52ff089dcc4
Ack No. : 112420914466260
Ack Date : 2-Jul-24

Yashash Cable Network Private Limited - #2713/4, Lakshmi Building 1st Floor Adipampa Road V V Mohalla Mysore GSTIN/UIN: 29AAACY2427J1Z4 State Name : Karnataka, Code : 29 E-Mail : account@yashtel.in Consignee (Ship to) The Principal, ATME College of Engineering 13th KM, Mysore- Kanakapura, Bangalore Road, Mysore – 570 028, 9980007783 GSTIN/UIN : 29AAACTA6940P1Z5 State Name : Karnataka, Code : 29 Buyer (Bill to) The Principal, ATME College of Engineering 13th KM, Mysore- Kanakapura, Bangalore Road, Mysore – 570 028, 9980007783 GSTIN/UIN : 29AAACTA6940P1Z5 State Name : Karnataka, Code : 29 Place of Supply : Karnataka	Invoice No. YCN/2024-25/54	Dated 2-Jul-24
	Delivery Note	Mode/Terms of Payment
	Reference No. & Date. MEMBERSHIP NO : 759 dt. 3-Apr-24	Other References
	Buyer's Order No. ATME(TY)/2023-2024/WO2023122001	Dated 20-Dec-23
	Dispatch Doc No.	Delivery Note Date
	Dispatched through	Destination
	Terms of Delivery BILL PERIOD:01-Jun-2024 To 30-Sep-2024	

SI No.	Description of Services	HSN/SAC	Quantity	Rate	per	Amount
1	Internet Service Charges - GST 18% 1Gbps (1:1) Lease Line OUTPUT TAX - CGST 9% OUTPUT TAX - SGST 9%	998422				3,07,500.00
					9 %	27,675.00
					9 %	27,675.00
Total						₹ 3,62,850.00

Amount Chargeable (in words) E. & O.E
Indian Rupees Three Lakh Sixty Two Thousand Eight Hundred Fifty Only

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
998422	3,07,500.00	9%	27,675.00	9%	27,675.00	55,350.00
Total			27,675.00		27,675.00	55,350.00

Tax Amount (in words) : **Indian Rupees Fifty Five Thousand Three Hundred Fifty Only**
 Company's PAN : AAACY2427J

Declaration
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for Yashash Cable Network Private Limited
 Authorised Signatory



This is a Computer Generated Invoice

YASHASH CABLE NETWORK PRIVATE LIMITED
TAX INVOICE

PAN NO. - AAACY2427J

GST NO.29AAACY2427J1Z4



BILLING ADDRESS



INSTALLATION ADDRESS



INVOICE DETAILS

Name : SHESHAGIRI B	Maha Ganapathi Seva trust, 5th Cross, 1st Stage Brindavan Extension, Mysore - 570020, Mysore, Mysore, Karnataka, India	User ID : 252159674871
Address :		Account No. : H39625
Email : smgstbe@gmail.com		Invoice Date : 2024-07-02
Mobile No. : 9845074871		Invoice No. : R303255
Contact Person. :		Mac ID : b4:3d:08:90:66:4b
GSTIN :		CustomerType : Broadband
		HSN / SAC No. : 998422

Description	Plan period	Charges	Discount	Amount
Amazing 75Mbps 12M	02/07/2024 To 31/08/2025	0.00	0.00	5988.14
Total Charges				5988.14
CGST(9.00 %)				538.93
SGST(9.00 %)				538.93
Total Amount (Round off)				7066.00
Total Amount (in words)	Rupees Seven Thousand Sixty Six			
				This document is computer generated and no signature is required.

Terms and Conditions : -

1. Pay Online at to renew your account instantly.
2. All Cheque Payments to be made in favour of "Yashash Cable Network Pvt Ltd"
3. For Cheque and NEFT Payment - A/c will be renew after realisation in 3 Working Days.
4. Please Do Not Pay By Cash to Anyone
5. The connection is Non Transferable and Non Refundable.
6. For any Billing, Renewals or Technical queries Call ,
or mail
7. All Matters Subject to jurisdiction.

NEFT/IMPS Details

Account No.	Bank Branch	Bank Name	IFSC Code/MICR Code	Account Holder Name
17151250001315	V V Mohalla	CANARA BANK	CNRB0011701	Yashash Cable Network Pvt Ltd



Bharat Sanchar Nigam Limited

Tax Invoice

THE ACADEMY FOR TECHNICAL
AND MANAGEMENT EXCELLANC
E
PRINCIPAL ATME COLLEGE OF
ENGG
13TH KM KENEKAPURE
BANGLORE ROAD
MYSORE
MYSORE KT
571311

TELEPHONE NUMBER
08212954081

GSTIN

Account No : 9039345671

Invoice No: SDCKA0053041450

Invoice Date : 08/02/2024

Fixed Charged Period

Tariff Plan: 100GB CUL - Bharat Fiber / Speed Upto 50Mbps till 100GB
beyond that Upto 4Mbps / Voice unlimited

AMOUNT PAYABLE

₹ 12498.00

PAY NOW**DUE DATE**

19/02/2024

24x7 Toll Free Helpline
Call or WhatsApp Hi to
1800 4444

Account Summary

Deposit Amount: 750.00

PREVIOUS BALANCE ಹಿಂದಿನ ಬಾಕಿ	PAYMENT RECEIVED ಪಾವತಿಸಿದ ಮೊತ್ತ	ADJUSTMENTS ಸರಿಹೊಂದಿಸಿದ ಮೊತ್ತ	CURRENT CHARGES ಪ್ರಸ್ತುತ ಬಿಲ್ಲು	TOTAL DUE ಬಾಕಿ ಮೊತ್ತ	AMOUNT PAYABLE ಪಾವತಿಸಬೇಕಾದ ಮೊತ್ತ
₹ 108.81	(-) ₹ 109.00	(+) ₹ 0.00	₹ 12,497.38	₹ 12,497.19	₹ 12498.00

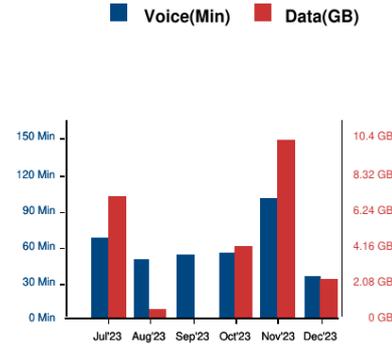
Amount in Words : Rupees Twelve Thousand Four Hundred and Ninety Eight Only

Summary of Charges

Current Charges	ಪ್ರಸ್ತುತ ಶುಲ್ಕಗಳು	Amount ₹
Recurring Charges	ಆವರ್ತಕ ಶುಲ್ಕ	10569.00
One Time Charges	ಒಂದು ಬಾರಿಯ ಶುಲ್ಕ	0.00
Usage Charges	ಬಳಕೆ ಶುಲ್ಕ	22.00
Miscellaneous Charges	ಇತರೆ ಶುಲ್ಕಗಳು	0.00
Discounts	ರಿಯಾಯಿತಿಗಳು	0.00
Late Fee	ತಡ ಪಾವತಿ ಶುಲ್ಕ	0.00
Total Taxable (Rs.)	ಒಟ್ಟು ಕರಾರ್ಹ	10,591.00
Tax	ಜೆ ಎಸ್ ಟಿ / ಸರಕು ಮತ್ತು ಸೇವಾ ತೆರಿಗೆ	1,906.38
Total Current Charges	ಒಟ್ಟು ಪ್ರಸ್ತುತ ಶುಲ್ಕಗಳು	12,497.38

Tax Details

Description	Tax Rate	Amount
CGST	9.00%	953.19
SGST	9.00%	953.19

USAGE HISTORY (6 MONTHS)

Dear Customer, Soft copy of this bill has been mailed to your ID mohan.m@atme.in. If mail ID is incorrect, please update correct ID at www.selfcare.bsnl.co.in.

holster
Specials
KARMA CALLING

Watch Blockbuster Entertainment exclusively on Disney+ hotstar

300+ Live TV Channels & Premium OTT entertainment

Upgrade Now

Scan 'QR' Code to make Online Portal Payment.



RAM KUMAR R
Accounts Officer (TR)
For Billing related issues

0821-2416700



Scan 'QR' Code to make UPI Payment.

Dear Customer, We recommend you to pay the bill online using <https://portal.bsnl.in/> or use My BSNL App on your mobile to avail our services 24X7. My BSNL App is available on the Google Play Store.

- PAYMENT SLIP -

BHARAT SANCHAR NIGAM LTD

Mode of Payment


 Cash Cheque/DD Credit/Debit Card

Cheque/DD No. _____ Dated _____ Bank _____ Branch _____

Please Charge Rs. _____ Signature _____

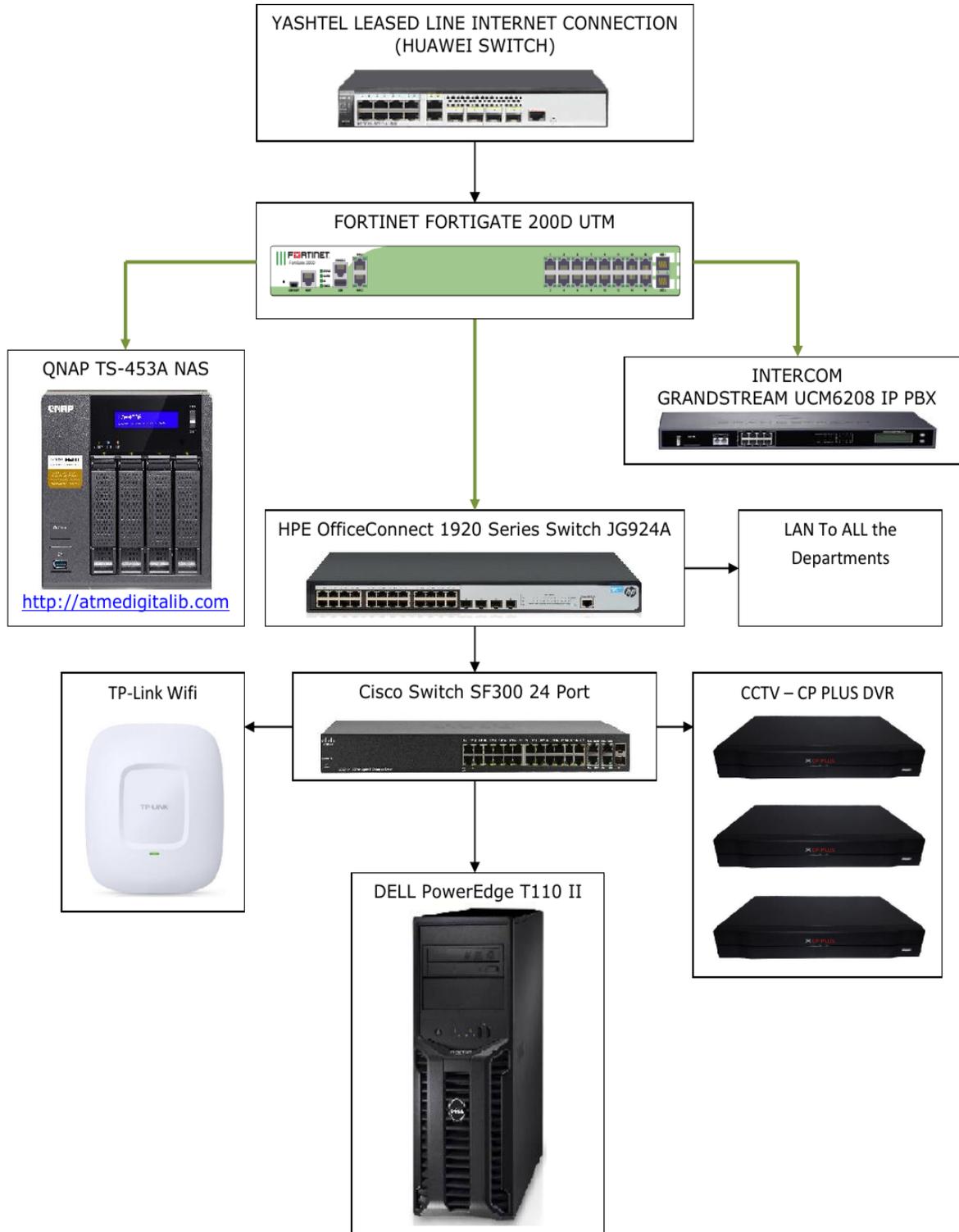
Invoice No	SDCKA0053041450
Invoice Date	08/02/2024
Account No	9039345671
Phone No	08212954081
Due Date	19/02/2024
Amount Payable	₹ 12498.00



For Bank use only

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Figure. 10.42 : Local Area Network (LAN) with Network Security



The faculty and The students are provided the firewall login through which they login to the network and access the desired information. The Wi-Fi access points set up through-out the campus the are as follows.

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Table. 10.43 Wi-Fi access-point allocation matrix

Department / Location		Number of Wi-Fi Access Points
Administrative Block	Lower Ground Floor	7
	Ground Floor	2
	First Floor	3
	Second Floor	4
	Third Floor	2
Civil Block		2
Electrical Block		3
Mechanical Block		3
Hostel		12
Canteen		1
Not Working		4
Total Number of Wi-Fi Access Points		43

Department / Location	Number of Wi-Fi Access Points / CPE for backup between buildings
Administrative Block – Transmitter TP-Link CPE710	1
Canteen – Receiver	1
Boys Hostel – Receiver	1
Girls Hostel – Receiver	1
Total	4

Fig. 10.44 : Firewall Authentication/Login Page

← → 🔒 Not secure | 172.16.1.4:1000/fgtauth/0707d8998c6c08cf


A T M E
 College of Engineering

Authentication Required

Please enter your username and password to continue.

Username

Password

[Continue](#) Or log in using [Microsoft Authentication](#)

Table. 10.43 : YASHTEL Traffic Monitoring Dashboard

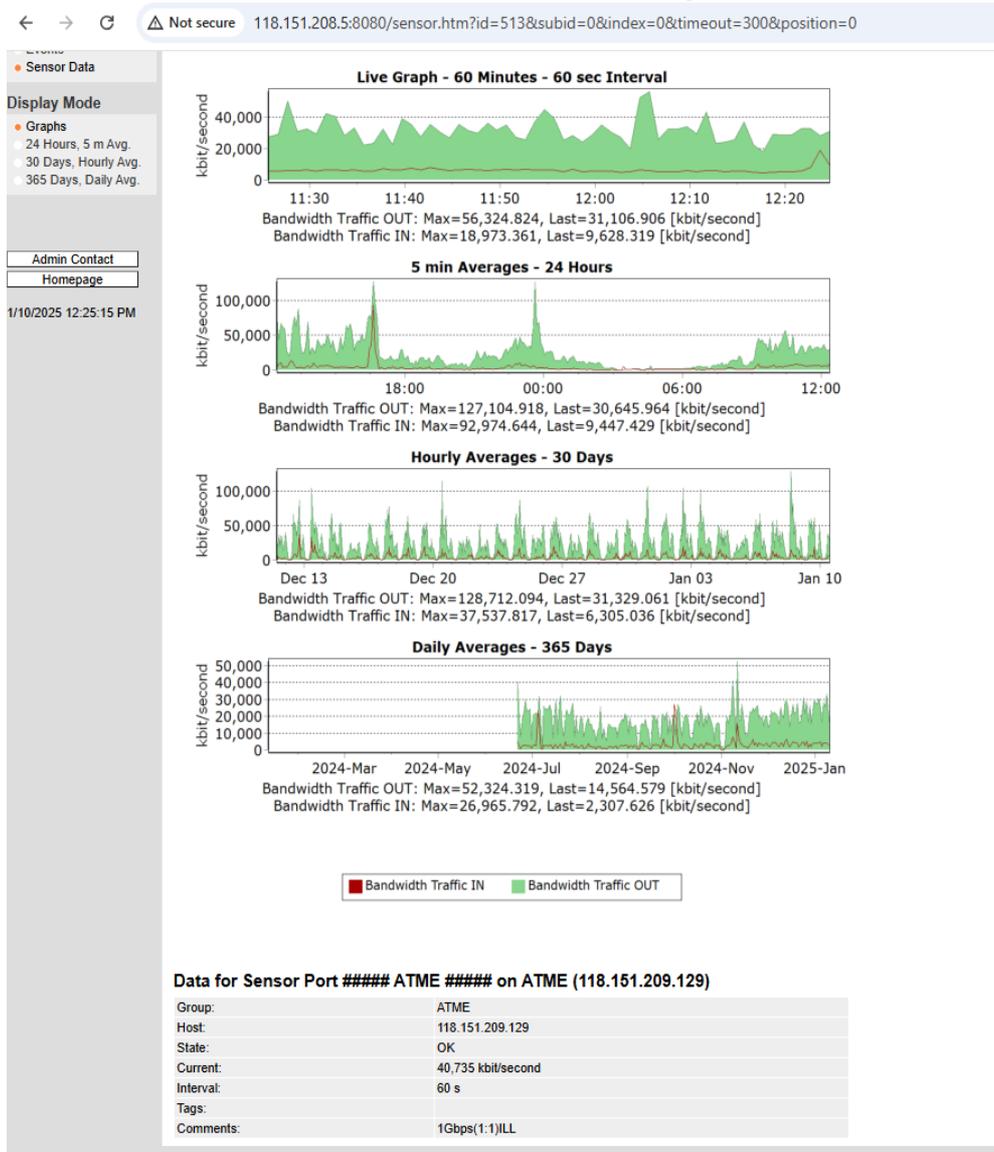


Fig. 10.45 : Wi-Fi Controller Screen

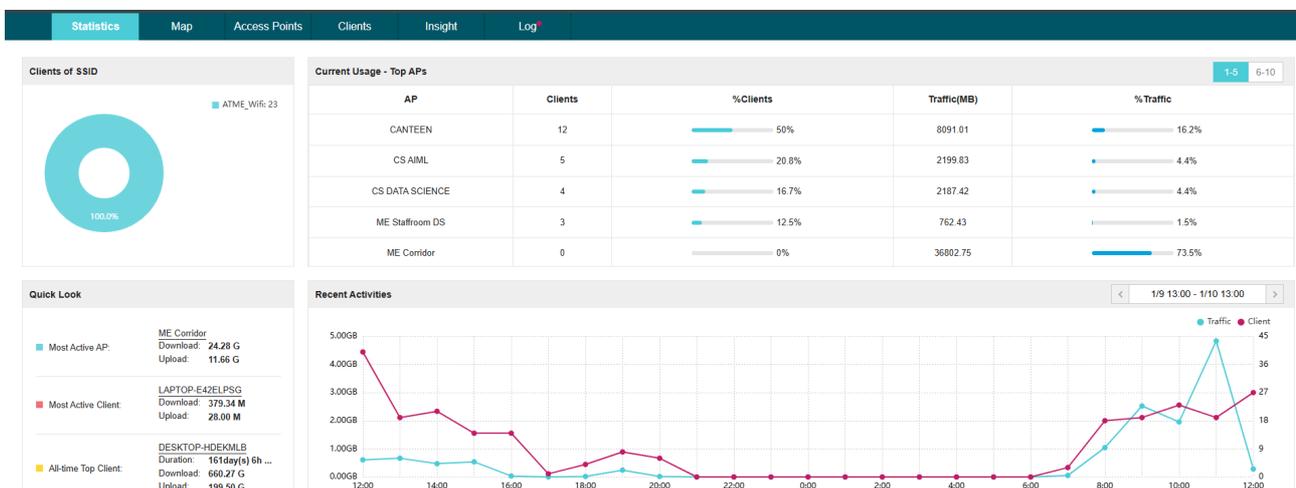


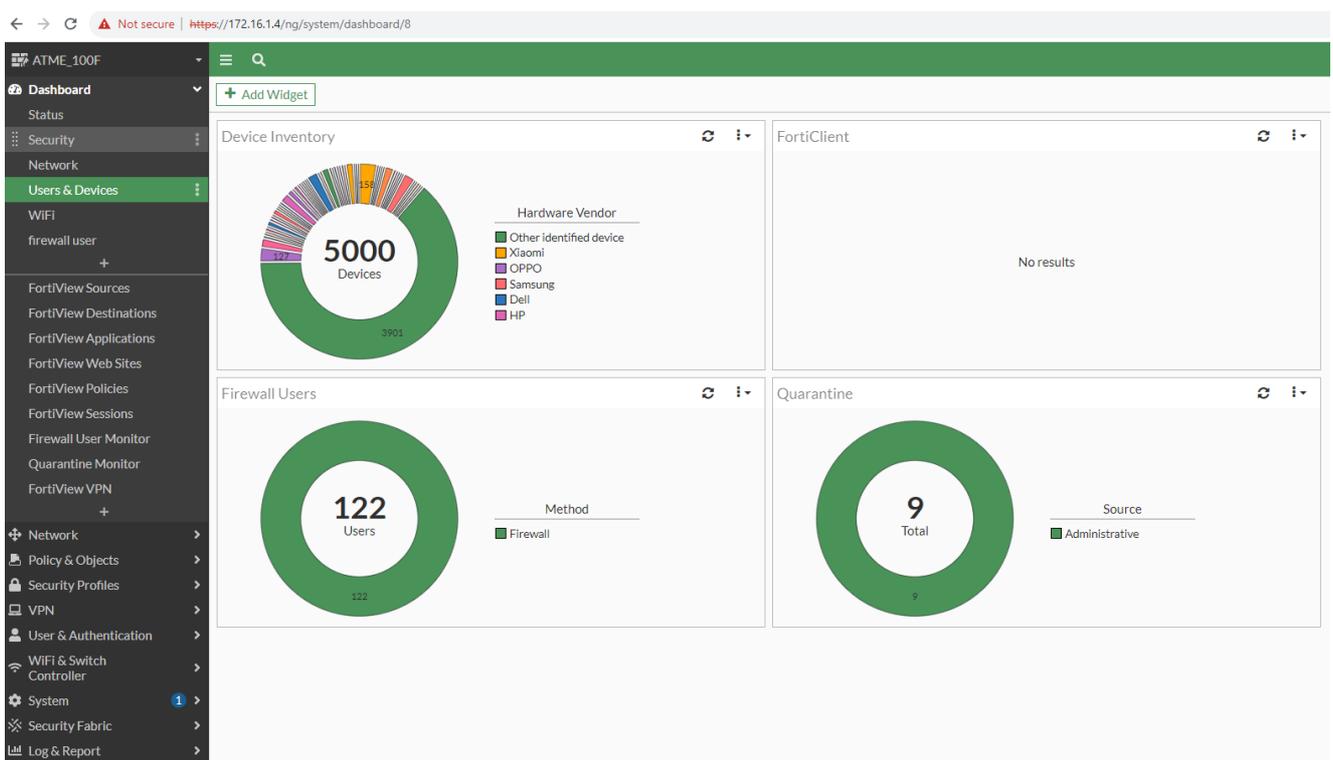
Fig. 10.46 : Wi-Fi Access Point Monitoring

DEVICE NAME	SITE	IP ADDRESS	STATUS	MODEL	VERSION	UPTIME	CLIENTS	DOWN	UP	CHANNEL	ACTION
ADMIN FF BOYS COMM...	Default	172.16.45.62	CONNECTED	EAP245(US) v3.0	5.0.7	94day(s) 46m 52...	7	64.46 GB	5.30 GB	11 (2.4 GHz), 48 (5 GHz)	🔄
ADMIN GF CCP Lab	Default	172.16.45.53	CONNECTED	EAP225(US) v5.0	1.3.1	15h 19m 3s	9	2.96 GB	689.75 MB	6 (2.4 GHz)	🔄
ADMIN LGF WEST Corid...	Default	172.16.45.51	CONNECTED	EAP225(US) v5.0	1.3.1	20h 51m 39s	2	312.05 MB	29.59 MB	6 (2.4 GHz), 161 (5 GHz)	🔄
ADMIN LIBRARY REF	Default	172.16.45.52	CONNECTED	EAP225(US) v5.0	1.3.1	20h 51m 27s	6	1.66 GB	183.19 MB	6 (2.4 GHz), 153 (5 GHz)	🔄
ADMIN PRINCIPAL	Default	172.16.45.71	CONNECTED	EAP620 HD(US) v3.0	1.3.1	3day(s) 22h 49m ...	5	8.40 GB	609.48 MB	1 (2.4 GHz), 48 (5 GHz)	🔄
ADMIN SF Coridor	Default	172.16.45.63	CONNECTED	EAP245(US) v3.0	5.0.7	4h 44m 42s	2	2.74 GB	312.44 MB	1 (2.4 GHz), 48 (5 GHz)	🔄
ADMIN TF 401	Default	172.16.45.64	CONNECTED	EAP245(US) v3.0	5.0.7	15h 19m 44s	4	5.90 GB	709.14 MB	1 (2.4 GHz), 36 (5 GHz)	🔄
ADMIN TF AUDI CGP	Default	172.16.45.65	CONNECTED	EAP245(US) v3.0	5.0.7	15h 19m 37s	5	1.53 GB	166.44 MB	1 (2.4 GHz), 36 (5 GHz)	🔄
ATME FF DEAN	Default	172.16.45.72	CONNECTED	EAP620 HD(US) v3.0	1.3.1	3day(s) 22h 49m ...	0	0 Bytes	0 Bytes	1 (2.4 GHz), 44 (5 GHz)	🔄
BOYS HOSTEL1	HOSTEL	172.16.45.81	CONNECTED	EAP245(US) v4.0	1.3.1	8day(s) 3h 21m 8...	0	362.17 GB	25.69 GB	6 (2.4 GHz), 161 (5 GHz)	🔄
BOYS HOSTEL2	HOSTEL	172.16.45.82	CONNECTED	EAP245(US) v4.0	1.3.1	8day(s) 3h 21m 5...	1	349.89 GB	32.67 GB	1 (2.4 GHz), 36 (5 GHz)	🔄
BOYS HOSTEL3	HOSTEL	172.16.45.83	CONNECTED	EAP245(US) v4.0	1.3.1	8day(s) 3h 21m 5...	0	404.92 GB	20.46 GB	11 (2.4 GHz), 44 (5 GHz)	🔄
CS DST1	Default	172.16.45.73	DISCONNECTED	EAP610(US) v3.0	1.5.0	--	0	--	--	--	🔄
CS DST2	Default	172.16.45.74	CONNECTED	EAP610-Outdoor(US) v1.0	1.3.1	4h 19m 45s	2	623.39 MB	19.57 MB	1 (2.4 GHz), 148 (5 GHz)	🔄
CS DST3	Default	172.16.45.75	DISCONNECTED	EAP620 HD(US) v3.0	1.3.1	--	0	--	--	--	🔄
CS-ADMIN LGF EAST C...	Default	172.16.45.61	CONNECTED	EAP245(US) v3.0	5.0.7	20h 51m 16s	3	1.91 GB	89.50 MB	1 (2.4 GHz), 161 (5 GHz)	🔄
GIRLS HOSTEL1 GF	HOSTEL	172.16.45.84	CONNECTED	EAP245(US) v4.0	1.3.1	4day(s) 1h 45m 3...	0	54.72 GB	7.59 GB	6 (2.4 GHz), 157 (5 GHz)	🔄
GIRLS HOSTEL2 FF	HOSTEL	172.16.45.85	CONNECTED	EAP245(US) v4.0	1.3.1	4day(s) 1h 45m 4...	3	31.88 GB	2.10 GB	11 (2.4 GHz), 40 (5 GHz)	🔄
GIRLS HOSTEL3 FF	HOSTEL	172.16.45.86	CONNECTED	EAP245(US) v4.0	1.3.1	4day(s) 1h 45m 4...	3	58.70 GB	13.29 GB	11 (2.4 GHz), 40 (5 GHz)	🔄
GIRLS HOSTEL4 SF	HOSTEL	172.16.45.87	CONNECTED	EAP245(US) v3.0	5.0.7	4day(s) 1h 45m 4...	1	20.13 GB	1.49 GB	1 (2.4 GHz), 36 (5 GHz)	🔄
GIRLS HOSTELS SF	HOSTEL	172.16.45.88	CONNECTED	EAP245(US) v3.0	5.0.7	4day(s) 1h 45m 3...	0	6.82 GB	1.24 GB	1 (2.4 GHz), 36 (5 GHz)	🔄

Network Security :

Security is very much essential for networks to maintain the access control of all the devices connected to the network and to curb external threats. The network security will reduce the risks of attacks, misuse and unauthorized access. ATME College of engineering has set up “Fortigate 100F Firewall” Network security.

Fig. 10.48 : Fortigate 100F – Users and Devices



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Fig. 10.49 : Fortigate 100F – Users BW Utilization

