|| Jai Sri Gurudev ||
Sri Adichunchanagiri Shikshana Trust (R)

SJC INSTITUTE OF TECHNOLOGY

VTU Affiliated, AICTE Approved, Accredited by NAAC & NBA, Gold Rated by QS I-Gauge

Chickballapur - 562 101, Karnataka

Estd:1986

www.sjcit.ac.in

CRITERION 4 - INFRASTRUCTURE AND LEARNING RESOURCES

4.3: IT Infrastructure

4.3.1: Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Sl. No.	Contents	Page No.
1	Purchase of Computers during last five years	2
2	Internet upgrading from 10Mbps to 800 Mbps (Documents)	2
3	Computing Facilities in the Institute	3-8
4	Lab Configuration	9-12
5	Sample Photos of Computing Facilities in SJCIT	13-16

4.3.1: Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Institution has provided Paramount importance to IT infrastructure development and its timely upgradation as the institution envision that adequate IT infrastructure is essential to offer quality education. To have information at finger tips, institute has provided internet facility through LAN cables and Wi-Fi with 800 Mbps bandwidth. Institute's perseverance towards establishing ICT enabled classrooms has enhanced the teaching-learning activity and uses computers as the integral part of academic and administrative activities.

Bills of computers purchased during **last five years** (2017-2022) are available and the same is mentioned below. Computers purchased **prior to 2017**, details are available in the **stock register.**

Sl. No.	Year	Number of computers purchased	Purchase Bills
1	2017-18	227	View Bills
2	2018-19	74	View Bills
3	2019-20	17	View Bills
4	2020-21	Nil	--
5	2021-22	02	View Bills
Total computers purchased from the year 2017-2022		**320**	

Computers purchase details entered in the **stock register:**

Sl. No.	Department	Number of computers	Stock Register
1	CSE	567	Click here
2	ME	110	Click here
3	CE	30	Click here
4	ECE	62	Click here
5	AE	60	Click here
Total		**829**	

Improvement in Internet bandwidth during last five years (2017 – 2022)

PO NUMBER	PO Date	Company	Bandwidth	Amount	Purchase orders
Acc/CSE/109/2022.23	15-9-2022	Infynix Data Services Pvt. Ltd.	800 Mbps	1191800.00	View Bills
Acc/CSE/51/2021-22	04-09-2021	Seans Media Pvt. Ltd.	500 Mbps	975000.00	View Bills
Acc/051/2020-21	27-08-2020	Tata Tele Services Ltd.	100 Mbps to 200 Mbps upgraded	236000.00(upgrade charges for 100 Mbps) 896800.00	View Bills
Acc/CSE/381/2019-20	05-03-2020	Tata Tele Services Ltd.	100 Mbps	660800.00	View Bills
Acc/CSE/002/2018-19	01-04-2019	E-infrastructure & Entertainment Pvt. Ltd.	100 Mbps	650000.00	View Bills
Acc/2017-18	24-03.2018	Micronova Helios IT infra Solutions Pvt. Ltd	100 Mbps	900000.00	View Bills
CSE/190/015/2017-18	17-4-2018	E-infrastructure & Entertainment Pvt. Ltd.	10 Mbps(Backup Line)	329500.00	View Bills

1. Computing Facilities in the Institute

Sl. No.	Name of the Computing Facility	Count
1.	Total Number of PCs available in college	**1060**
2.	Total Number of Laptops provided to HOD / Staff	**13**
3.	Number of computers available for students usage	**829**
4.	No. of Printers	**39**
5.	No. of Printer & Scanners	**35**
6.	Interactive Display (Smart TV)	**03**
7.	No. of Generators • 125 KVA • 62.5 KVA • 40 KVA • 25 KVA	 **01** **04** **01** **01**
8.	No. of UPS • 15 KVA • 10 KVA • 05 KVA	 **01** **32** **02**
9.	No. of Projectors	**97**
10.	No. of Legal System Software	**05**
11.	No. of Legal Application Software	**55**
12.	Surveillance Camera	**280**
13.	Digital display TV of 50 Inches	**9**
14.	ERP Management System – DHI	**01**
15.	Internet Bandwidth	**510 Mbps**
16.	Internet Connection Ratio	**1:1**
17.	Wi-Fi Access Points	**22**
18.	Photocopiers	**04**
19.	Public Address System	**07**

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Chickballapur - 562 101

	Location of Wi-Fi Access Points	
Sl. No.	**Location**	**Count**
1.	Admin Block - Ground Floor Entrance	**01**
2.	Admin Block - Principal Chamber	**01**
3.	Admin Block - Office	**01**
4.	Admin Block – President chamber	**01**
5.	IT Block – Ground Floor Entrance	**01**
6.	IT Block – First Floor Server Room	**01**
7.	IT Block – Second Floor HRD Office	**01**
8.	IT Block – Third Floor ISE Board Room	**01**
9.	IT Block – fourth Floor BGS R&D Center	**01**
10.	Academic Block – Ground Floor	**02**
11.	Academic Block – First Floor	**02**
12.	Academic Block – Second Floor	**03**
13.	Mechanical Block – Ground Floor	**01**
14.	Mechanical Block – First Floor	**01**
15.	MBA Department	**01**
16.	Girls Hostel	**01**
17.	Boys Hostel	**02**
	Total	**22**

**Location of UPS and Battery**		
Sl. No.	**Location**	**Count**
1.	Admin Block – 10 KVA	**02**
2.	IT Block – 10 KVA	**16**
3.	Mechanical Dept. • 5 KVA • 10 KVA	 **01** **05**
4.	ECE Dept. – 10 KVA	**04**
5.	Civil Dept. • 5 KVA • 10 KVA	 **01** **02**
6.	Aeronautical Dept. – 10 KVA	**01**
7.	MBA(Auditorium) • 10 KVA • 15 KVA	 **01** **01**
8.	Central Library – 10 KVA	**01**
	Total	**35**

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Location of Generators

Sl. No.	Location	Count
1.	IT Block • 125 KVA	**01**
2.	Academic Block • 62.5 KVA	**01**
3.	Mechanical Block • 62.5 KVA	**01**
4.	Boys Hostel • 62.5 KVA	**01**
5.	Girls Hostel • 62.5 KVA	**01**
6.	Administrative Block • 40 KVA	**01**
7.	Transportation Block • 25 KVA	**01**
	Total	**07**

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Sl. No.	Location	Count
**Location of Surveillance Camera**		
1.	Admin Block	**13**
2.	Exam Section	**04**
3.	IT Block	**88**
4.	MED Block	**51**
5.	CIVIL Dept. Corridor	**39**
6.	ECE Corridor	**33**
7.	Central Library	**08**
8.	Transport Dept	**07**
9.	Security Gate	**06**
10.	First Year Engineering	**31**
	Total	**280**

	Department wise Computing Facility						
Sl. No	Department Name	No. of PCS	No. of Printers	No. of Printers & Scanners	No of Projectors	No. of Legal System Software's	No. of Legal Application Software's
1.	Computers Science & Engineering	292	2	3	18		**27**
2.	Information Science & Engineering	161	2	2	12		**08**
3.	Mechanical Engineering	154	8	1	12		**11**
4.	Aeronautical Engineering	66	0	2	6		**04**
5.	Aerospace Engineering	5	1	1	2		**00**
6.	Civil Engineering	94	8	4	09		**2**
7.	Electronics & Communication Engg.	130	3	6	18	5	**01**
8.	Master of Business Administration	6	1	1	2		**0**
9.	Administrative Office	18	4	7	2		**0**
10.	Department of Library	39	0	2	1		**1**
11.	First Year Engineering	9	3	0	12		**0**
12.	BGS R & D	27	0	3	03		**0**
13.	Exam Section / HRD / Sports Dept. / Society / Transport Dept.	14	7	3	0		**0**
	Total	**1015**	**39**	**35**	**97**	**5**	**54**

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Chickballapur - 562 101

2. Labs Configuration

Department: Computer Science & Engineering

Sl. No.	Name of Laboratory Date of Purchase	No. of Computers	Carpet area (sq.mtrs)	Major Equipments
1	IT-LAB-2 07/10/2008	36	111.37 Sq. mtrs	30 No DELL Optiplex 330 DT, Intel Core2Duo computers, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking
2	IT-LAB-3 04/01/2019	36	111.37 Sq. mtrs	36 No Dell 7060 MT Intel i7 7th Generation computers, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking
3	IT-LAB-4 (2010)	36	106.67 Sq.mtrs	36 No AMD Athlon X4 2934 computers, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking. (transfer from MCA department)
4	IT-LAB-5 21/11/2011	30	134.91 Sq.mtrs	30 No, HCL Intel Corei3 computers, 4 No CROs, μP & ECLD kits, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking
5	IT-LAB-7 27/10/2011	36	106.67 Sq. mtrs	36 No, HCL Intel Core2Duo computers, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking
6	IT-LAB-8 07/10/2008	18	111.38 Sq. mtrs	18 No DELL Optiplex 330 DT, Intel Core2Duo E7200 Computers, 1x1.0 GHz 6-Core Ultra Sparc 1server and 10 Nodes, and EMC 4x4-5FSC Storage Device, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking.
7	IT-LAB-11 (Central computing) 26/12/2012	75	191.39 Sq. mtrs	36 No HCL Intel Core i5 processor, 2nd Generation 23200, and 39 No DELL OptiPlex3010, Intel Core i5 3rd Generation, LCD projector, projector screen, 10X2 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking

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Chickballapur - 562 101

Department: Information Science & Engineering

Sl. No.	Name of Laboratory	No. of computers	Carpet area (sq. mtrs)	Major Equipment's
1	IT-LAB-1	30	134.91 Sq.mtrs	30 No, HCL Intel Core2Duo computers, 4 No CROs, µP & ADE Lab kits, 15 No ARM Kits, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking
2	IT-LAB-6	36	111.37 Sq. mtrs	36 No, HCL Intel Core2Duo computers, LCD projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking
3	IT-LAB-9	36	111.38 Sq.mtrs	36 No, HCL Intel Corei3 computers, projector, projector screen, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking
4	IT-LAB-10	42	111.38 Sq.mtrs	DELL OptiPlex 3050 MT, Intel Core i5 7th Generation, 10 KVA ONLINE UPS WITH 3 hrs BACK-UP & networking

Department: Civil Engineering

Sl. No.	Name of Laboratory	No. of computers	Carpet area (sq. mtrs)	Major Equipment's
1	CAD LAB-1	30	71.92 Sq.mtrs	HCL intel core 2 duo™ E7200, 149.05GB Hard Disk, 3GB RAM HCL intel core 2 duo™ E7500, 298.09GB Hard Disk, 4GB RAM
2	CAD LAB-2	30	73.5 Sq. mtrs	Dell Intel Core i5, 7th Gen 16GB RAM, 4GB Graphics Card, DVD Writes, 21" wide LCD Monitoe, Keyboard, Optical mouse, Dell E2218HN 21.5", 3 years warranty
3	R&D/M.Tech Structures Lab	10	36.75 Sq.mtrs	AMD ATHLON IIX4 635 processor 298.09GB 2.00 GB RAM

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Chickballapur - 562 101

Department: Electronics and Communication Engineering

Sl. No.	Name of Laboratory	No. of computers	Carpet area (sq. mtrs)	Major Equipment's
1	ED&I / AC Lab	06	89 Sq.mtrs	Intel Core i3, 2nd Gen, 1GB RAM, 320GB HDD
2	DSP/MC Lab	22	89 Sq.mtrs	Intel Core i5, 2nd Gen, 4GB RAM, 500GB HDD
3	HDL Lab	24	89 Sq.mtrs	Intel Core i5,7th Gen, 8GB RAM, 1TB HDD
4	ARM/VLSI Lab	21	89 Sq.mtrs	Intel Core i5, 2nd Gen, 4GB RAM, 500GB HDD Intel Core i3, 2nd Gen, 1GB RAM, 320GB HDD
5	DSD Lab	05	89 Sq.mtrs	Intel Core i3, 2nd Gen, 1GB RAM, 320GB HDD
6	CN Lab	20	89 Sq.mtrs	Intel Core i5,7th Gen, 8GB RAM, 1TB HDD Intel Core i5, 2nd Gen, 4GB RAM, 320GB HDD

Department: central library

Sl. No.	Name of Laboratory	No. of computers	Carpet area (sq. mtrs)	Major Equipment's
1	Digital library	26	50.4	Processor intel ® Xeon ® CPU 4GB RAM windows 2008, server edition (OS) 250 GB hard Disk

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Department: Aeronautical Engineering

| Sl. No.	Name of Laboratory	No. of computers	Carpet area (sq. mtrs)	Major Equipment's
1	Design, modelling lab and analysis lab 19.06.2017	30	185	Intel i5 x86-64 bit processor 1TB hard disk ,8GB RAM , VGA graphics card 17" monitor (LED Display) Keyboard mouse
2	Flight simulation lab	30	185	Intel i5 x86-64 bit processor 1TB hard disk ,8GB RAM , VGA graphics card 17" monitor (LED Display) Keyboard mouse

Department: Mechanical Engineering

Sl. No.	Name of Laboratory	No. of computers	Carpet area (sq. mtrs)	Major Equipment's
1	Engineering Visualization Lab	60	91.2	HCL Core 2 Duo HP Core 2Duo HCL P4
2	Computer Aided Modelling Analysis Lab	30	71.02	Dell Core i5 HCL Core i5 HCL Core i3
3	Computer Integrated Manufacturing Lab	26	60.2	HCL Core 2 Duo
4	Computer Aided Machine Design Lab	30	71.02	Dell Core i5 HCL Core i5 HCL Core i3

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3. Sample Photos of Computing Facilities in SJCIT
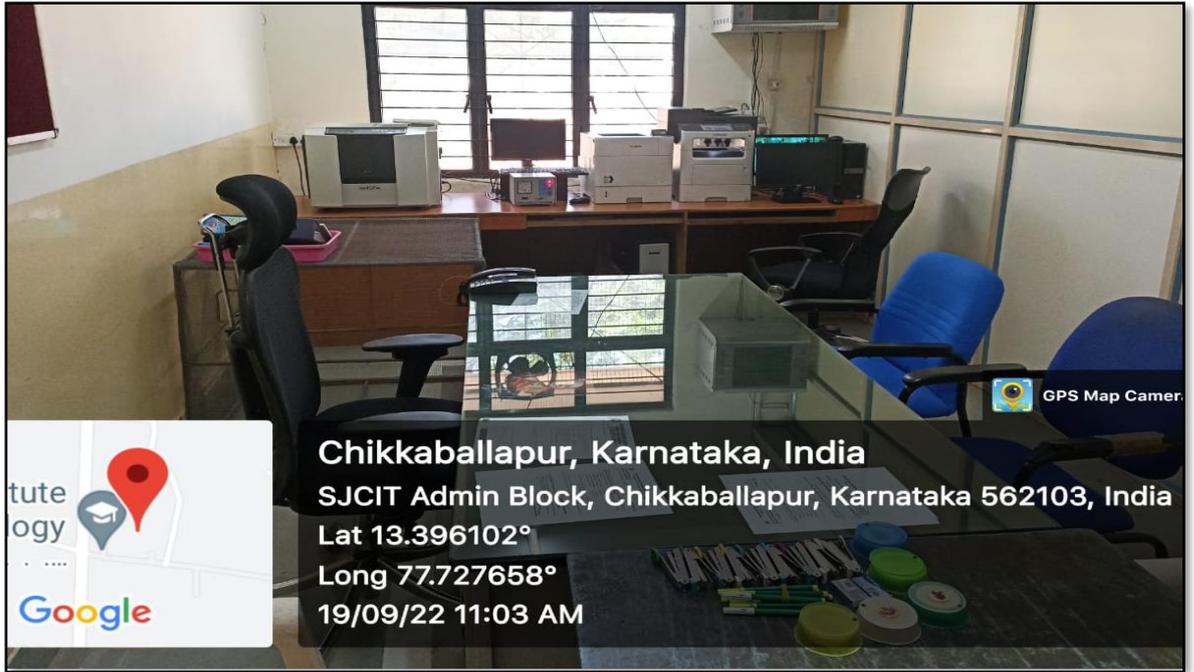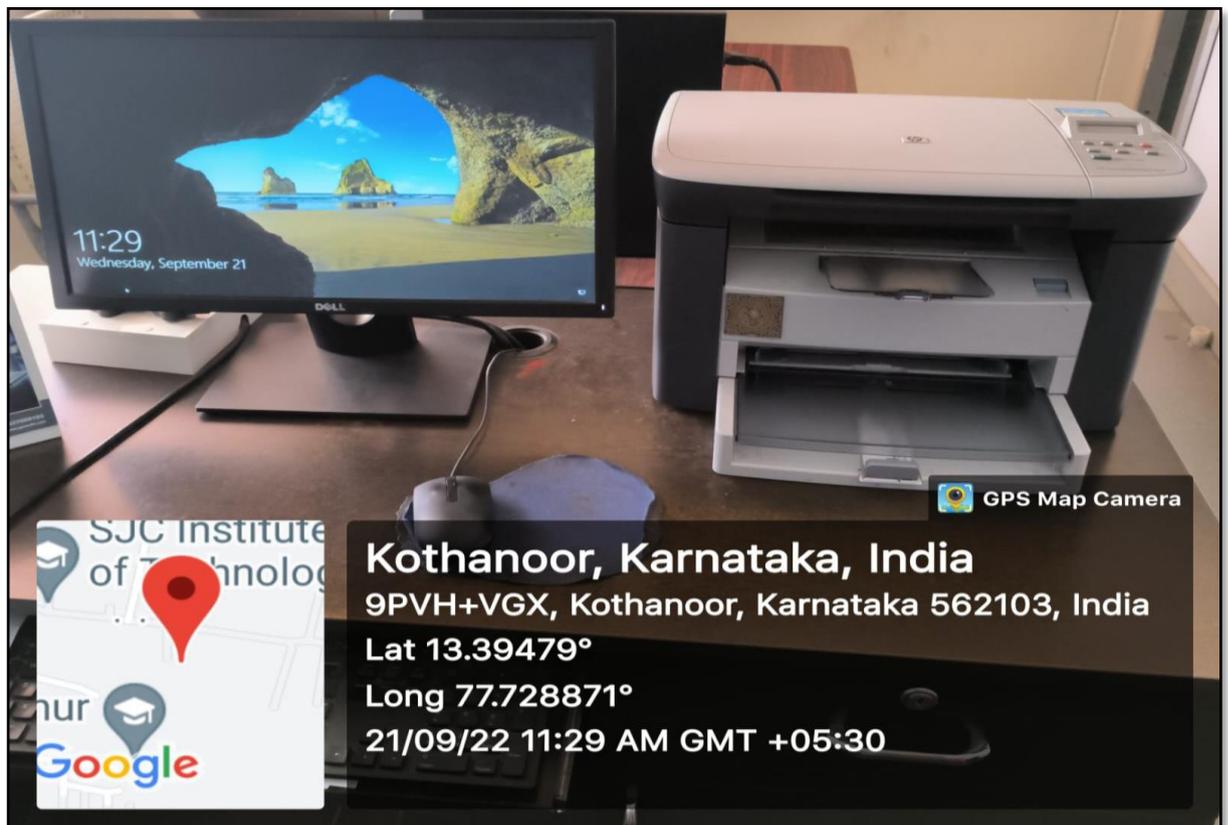

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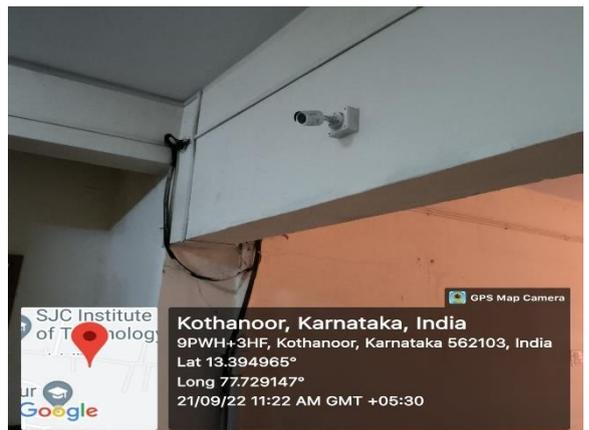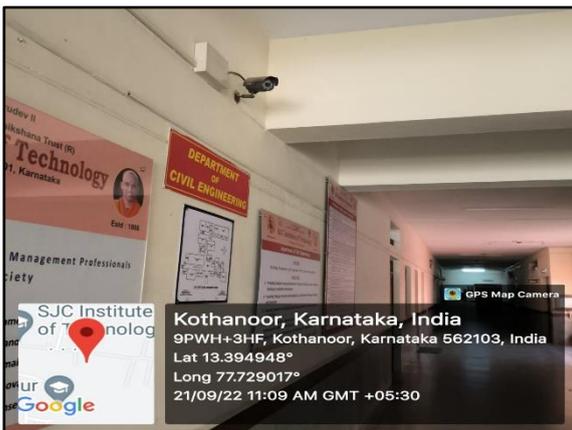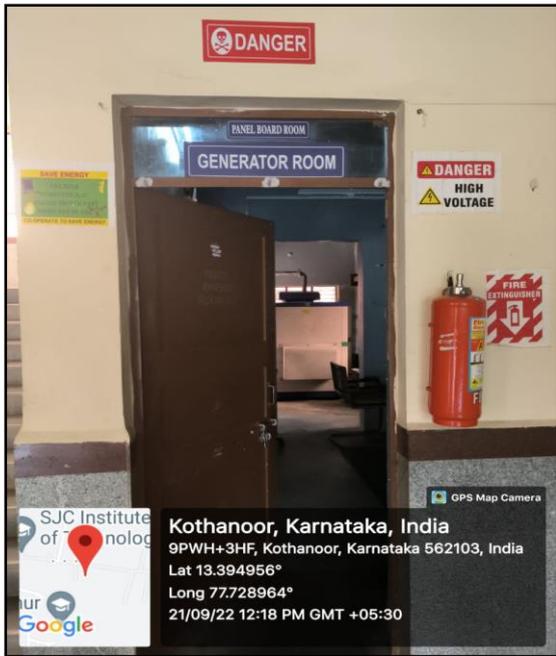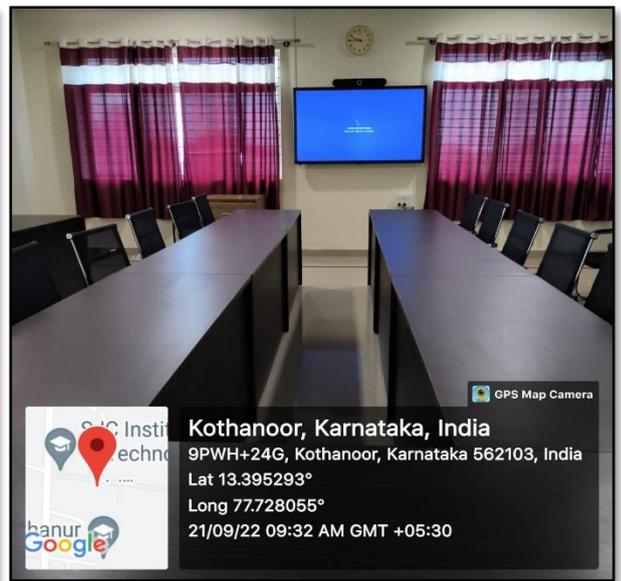

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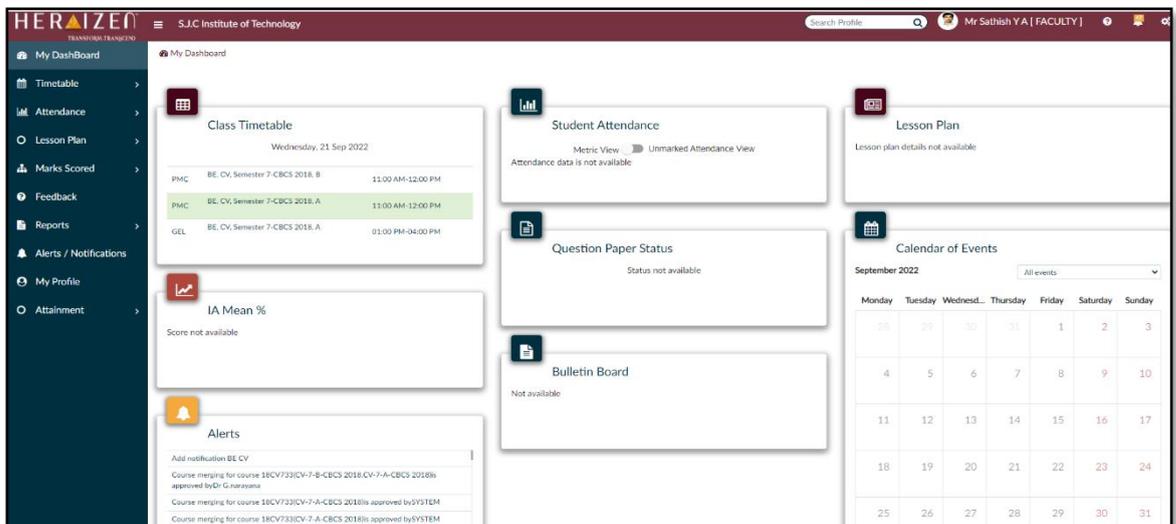
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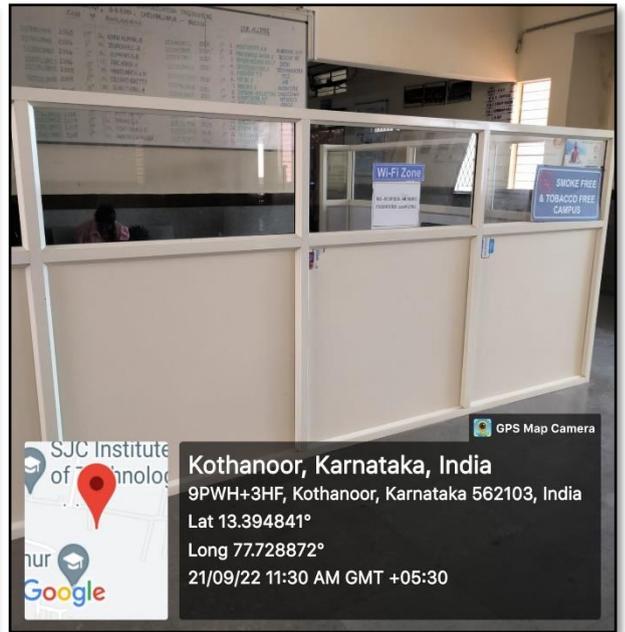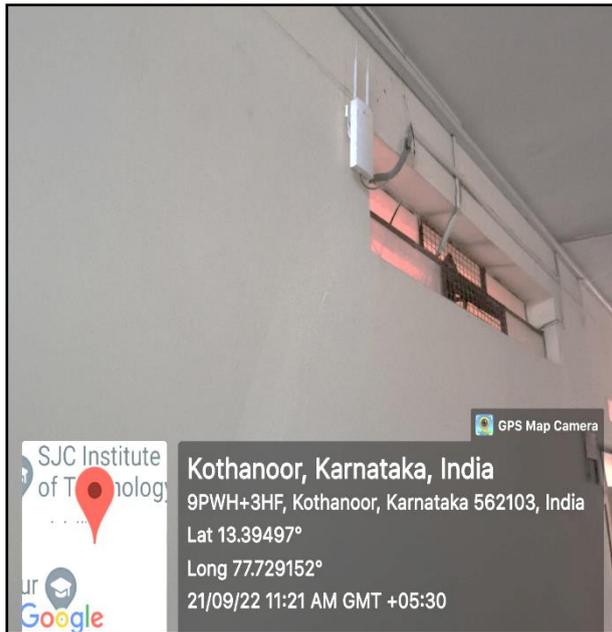
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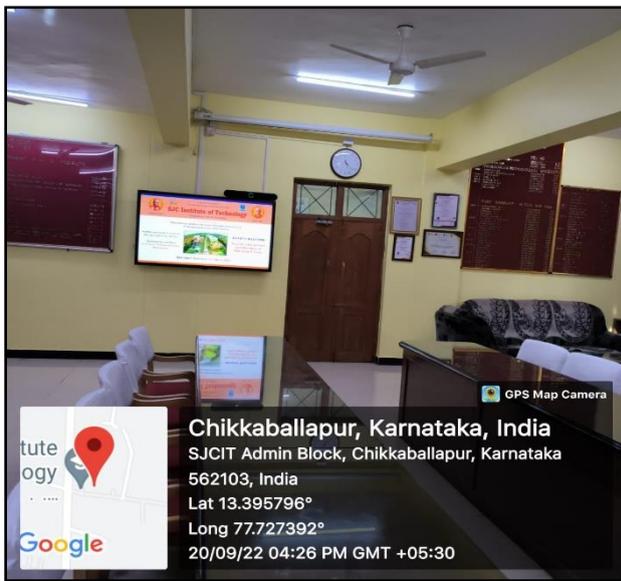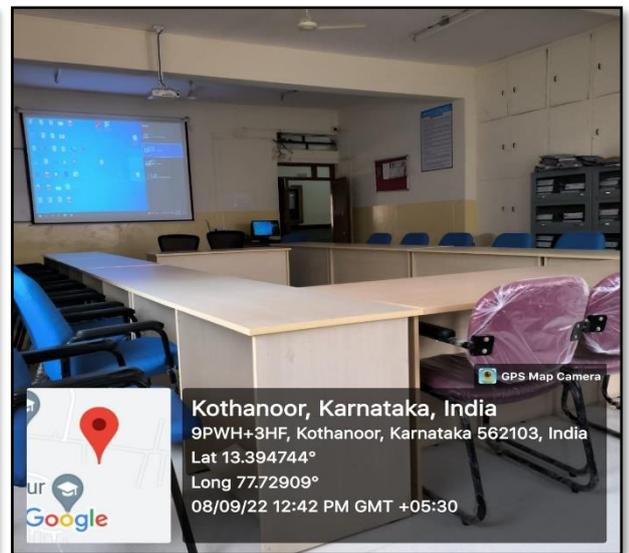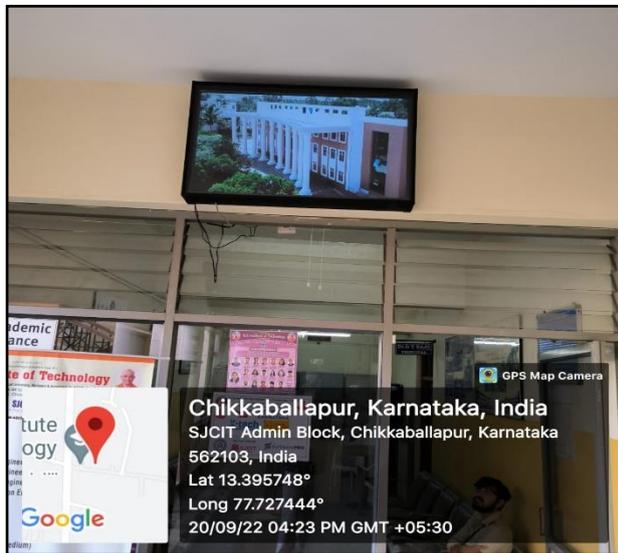

Printer with scanner

Generator

UPS

Interactive Display (Smart TV)

Digital display TV   **Projector**