



4.3: IT Infrastructure

4.3.1: Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection Describe IT facilities including Wi-Fi with date and nature of updating, available internet bandwidth within a maximum of 500 words

There is total 510 desk top computers and 15 laptops of varying configuration in the institution. Out of these, 9 desk tops have been installed in Ghumansar, a village adopted by the Institute. 427 computers are available for students use and balance for faculty and staff.

The currently available internet bandwidth is 300 MBPS on a leased line. All computers are internet enabled. Wi-fi points are available in hostels (55 nos.) and also in the main Institute building (15 nos).

The Institute regularly invests in upgrading/renewing IT infrastructure. For example, in 2023-24, 25 new desk top computer and 1 laptop were purchased and in 2022-23 30 were re-furbished. An additional 2 laptops were upgraded. Similarly, in 2021-22, 5 laptops were purchased, and the hard disk of 6 desk tops as well as the RAM of 5 additional ones was upgraded. As far as internet is concerned, the bandwidth available was 100 MBPS 2020-21 and this was increased to 300 MBPS in 2022-2023. Further, 10 Wacom writing tablets were purchased for on-line teaching during the Corona period.

The Institute has license for 14 system software packages including windows server and Turbo C++. Application software is open source and includes software like SQL server, and Matlab.

4.3.2: Student – Computer ratio (Data for the latest completed academic year)

Total number of computers available for students in last completed academic year = 427

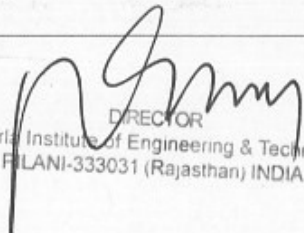
Total number of students = 1078

Number of Students: Number of computers: 2:1

4.3.2: Student – Computer ratio (Data for the latest completed academic year)	2:1
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4.3.2.1: Number of computers available for students' usage during the latest completed academic year:

Number of computers available for students' usage during the latest completed academic year:	427
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B K Birla Institute of Engineering & Technology

Pilani, Rajasthan, INDIA

Approved by AICTE, New Delhi

Affiliated to Bikaner Technical University

(BTU), Bikaner

4.3.2 Student - Computer ratio (Data for the latest completed academic year) 2022-23

Total No. of Students	Total No of Computers
1078	510

Total Number of Computer Available in the Campus =510

Total Number of Computers for Students Use = 427

Total Number of Students (2022-23) =1078

Students/ Computer Ratio = (1078: 427)

= 2.52:1

= 2 Students: 1 Computer

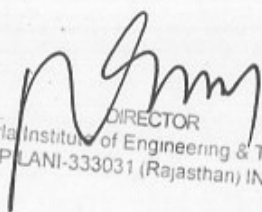
= 2:1

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SUPPORTING DOCUMENTS

1. Total Student Strength (2022-23):

Session 2022-23									
Year/ Branch	ECE	CSE		IT	EE	AI	ME	DS	TOTAL
Section		A	B						
I	57	62	62	31	34	59		60	365
II	34	61	71	6	13	25	5	26	241
III	28	64	68	07	14	23	09	--	213
IV	38	59	78	31	30	--	23	--	259
Grand Total									1078

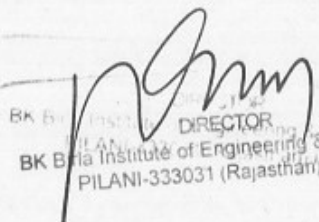

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2. List of the Computer in the Campus:

BK Birla Institute of Engg. & Technology Computer System Status Report July 2023

S. No.	Configuration of PC	TOTAL NO OF PC	Location of Computer	No. of PC	Current Status			Purchase Date	
					Function al	Non-Functional			
						Tota l	Repara ble / Upgrad able		Unr epea tabl e
1	Intel I.3 6th Generation Monitor 15.6" RAM 4GB HDD 1 TB	9	Electric Motor & PCB Lab (BPTRC)	9	9			15-04-2017	
2	Intel I.3 2nd Generation Monitor 15.6" RAM 4GB HDD 500 GB	45	AI Lab (B Block)	38	38			05-06-2014	
			Web Designing Lab	7	7	0	0		0
3	Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	166	COMPUTER LAB (B)	78	78	5	5	0	17/04/2013(50) 01/02/2013(35) 12/01/2013(20) 05/01/2013(30) 23/01/2012(35) 08/08/2011(25)
			Web Designing Lab	21	21	0	0	0	
			Mechanical Lab (Mech. Block)	40	32	0	0	0	
			SEMINAR HALL(1,2,3)	3	3	0	0	0	
			PCB LAB (Projector)	1	1	0	0	0	
			DSP LAB	17	17	0	0	0	
			Electrical Demos trial Lab	1	1	0	0	0	
			BIC Lab	3	3	0	0	0	
4	Intel Dual Core 2.7GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	36	DSP LAB	29	29	0	0	0	24/07/2010(60) 06/03/2010(05)
			BIC Lab	2	2	0	0	0	
			Analog & Digital Communication Lab	1	1	0	0	0	
			DC Machine Lab	1	1	0	0	0	
			University Cell	1	1	0	0	0	
			Digital Electronics Lab	1	1	0	0	0	
			Web Designing Lab	1	1	0	0	0	
5	Intel Dual Core 2.8GHZ Monitor TFT 19" RAM 1GB HDD 160 GB	21	Electrical Drives LAB	6	6	0	0	0	18/04/2009(1) 15/04/2009(30)
			MICROPROCESSOR LAB	15	15	0	0	0	
6	Intel Dual Core 2.6GHZ Monitor TFT 15.6" RAM 1 GB HDD 120 GB	21	DSP LAB	17	17				01/07/2008(28)
			WIRELESS COMMUNICATION	1	1	0	0	0	
			BIC	3	1	0	0	0	
7	Intel Dual Core 2.8GHZ Monitor TFT 15.6" RAM 512 MB HDD 80 GB	64	COMPUTER LAB (A)	62	62	0	0	0	21-05-2007 25-06-2007 29-12-2007
			Meeting Hall	1	1	0	0	0	
			BIC LAB	1	1	0	0	0	

8	LX-Infinity Monitor, HCL TFT 15" 1GB RAM, 80 GB HDD	10	COMPUTER LAB (A)	10	10	0	0	0	07-07-2008
9	Intel Dual Core i5 12 Gen 16 GB RAM 512 GB NVME DELL 22" Monitor	25	AI/DS Lab	25	25	0	0	0	29-12-2022
10	HP Core i5 6th Generation 256 SSD 8 GB RAM, 15" Monitor	30	Language Lab	30	30	0	0	0	21-06-2023
Total Computer System for Student Use		427	Functional Computer System	427					
Computer System for Faculty Use		74	Functional Computer System	74					
Computer System Donated for Smart Village Initiative		09	Functional Computer System	09					
Total				510					


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Article Computers.

S. No.	RPT No.	Date	Particulars	Qty.	Rate	Amount	Balance	Location
1	68	21-5-07	HCL Computer LX/241 820 OL-1265 PS-2-8/02/80KSP 28 cm. monitor LED with key board & mouse A. Base Unit RISC WS 4.0 the board (built-in) B. 512 MB DR II-667 PC-2-520 unbuff mem-8cc-B (built-in) C. Mother Board " D. 50 GB 2000 rpm 2.5" HDD, 1MB (built-in) Supt. & CPU. 5073A 1461440-1505 = 65000.	65	20187/-	12,55,470/- + 2/15. + 10/- 600/-		6000. Comp. room 1. Dinsda 1. In. Lab 1. Dinsda. 1. P. & T. Div. 1. office. <u>65</u>
2	191	25-6-07	4 above 5073A 6000. 1496898 To 1496907	10	20220/-	202200/-		Comp. room ✓
3	771	29-12-07	Computer on above model BL/11065 4 nos 24764091822 to 1832 → model OL-1265 4 nos 1833 to 37	10 Nos 5 Nos	@ 18275/-	2,75,590/-		Comp. Lab <u>Final</u> 4-1-08
4	896	7-3-08	Intel Celeron Dual Core 1.6GHz CPU with 15" CRT monitor Intel	10 Nos	11,100/-	1,11,000/-		Comp. Lab (P. & T. Div. & Lab) <u>Final</u> 8/3/08
5	947	20-3-08	Infinitplus for D Dual Core 3.0 GHz 15" monitor	10 Nos	18,000/-	1,80,000/-		<u>Final</u> 24-3-08 ✓

Article Computers

S. No.	RPT No.	Date	Particulars B/F.	Qty. Lot No.	Rate	Amount	Balance	Location
6.	278	1-7-08	PIE Dual Core 2GHz Intel mother board Asus-945 Intel Ram DDR 2 1GB HDD Seagate SATA 1GB ATX Cabinet 4-bay 15" TFT monitor optical Scull Mouse "acer" Membrane key board ATX-SMPS "LIMAX"	28 No.	17074/56	4,78,152/-	nil	Computer Room 5
7.	292	7.7.08	LX Infiniti PRO BL 1245/DCL 14/160G/50, HLL Key RD HLL 15" TFT monitor	1 No.	16500/-	1,65,000/-	nil	"
8.	25	15-4-09	Computer with following features: 1) Cabinet system 2) Hard disk 160GB Seagate 3) Ram 1GB 4) Mother Board ASUS Asus 5) CPU Core 2 duo 6) HP Key Board with soft touch 7) monitor TFT 15" ASUS	30 No.	18998/-	5,69,940/-	nil	Rebo. Lab.
9	26	18.4.09	Computer as above (but item no. 6 in CPU Dual Core)	One	-	16548/-	nil	Fr. Lab
10	1147	8/2/10	Intel Computer, 500 GB SATA Dual Core 2.74GHz, Acer M Board 2GB Ram 18.5 TFT, Logitech KB Fire DVD writer	1 No.	20044/-	1,00,220/-	nil	Computer Center

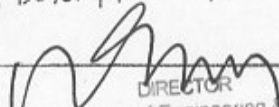
175


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title Computer

No.	RPT No.	Date	Particulars	Qty.	Rate	Amount	Balance	Location
409		24.7.10	Cabinet - Graphite FT with P. Riffly Intel Dual Core 2.7 GHz Asus Mother Board G-81 500 GB HDD Seagate RAM 2GB A Data Hyner Key BD ENTER (optical mouse) Asus make 15.6" TFT	1	16222/21	97338/-		Comp. Centre Rustoo Lab. & Fin. member thru. Comp. Centre <u>Final</u> 24/7/10
238		15/6/11	Cabinet with P. Riffly "DOEEN" Intel Dual Core 2.2 GHz, CPU Asus mother board G-41 500 GB HDD SATA RAM 2GB DDR-2 Logitech Key Board & mouse 15.6" TFT "Asus"	1	14425/72	721286/-		Comp. Centre Rustoo Lab. Comp. Centre <u>Final</u> 15.6.11
296		8/7/11	As above	1	14425/72	721286/-		for INSTT. Comp. Centre <u>Final</u> 8/7/11
397		8/8/11	As above	1	14425/72	8,60,642/-		" <u>Final</u> 8-8-11
862		23/1/12	15.6" LED	35	17546/-	614114/-	35	for INSTT. for 2nd <u>Final</u> 25/1/12
881		5/1/13	"	30	17707/70	533661/-	30	for INSTT. <u>Final</u> 7/1/13

425 Nos.


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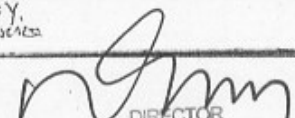
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Article Dell Computers

S. No.	RPT No.	Date	Particulars	Qty.	Rate	Amount	Balance	Location
1	899	12/1/13	15.6" LED → for purchase specifications	20	16922/60	328442		New CS Lab 12/1/13
2	942	1/2/13	"	35	16922/60	589291		" 1/2/13
3	CG-82/2/13	17.4.13	"	50	16922/60	846129		26 " + new set-off 17.4.13 22.4.13
4	MS-231/5/11/13		" RAM-4GB HDD 500 GB Intel i3 2nd Gen. Key Board → 70 @ with mouse: + 13 per drive 5GB r/c.	65	20959/-	1362357		Comp. Center C Block 6.6.14
Total:				595	1007	1572716		20/2/16
5	RB-24/15/1/13		Confidant Desk 6th Gen. RAM-4 GB HDD-1 TB 15.6" Screen, Acer	9	23753/-	213784		Bot RL (Mr. Punchall) 15/1/13
6.	930/25.12.22		'Dell' C-Optiplex 5000 Tower-i5-12500 Intel Core i5-12500(6core/18mb/12T/3.0GHz to 4.6GHz/65W)16GB(17666) DDR4 Non-ECC Memory M.2 2230 512GB PCIe NVMe Class 35 Solid state Drive(EM) UBUNTU Supports Wind/Win11 DG/LINUX Dell Optiplex 1 Dell USB Optical Mouse MS116(EPEAT)-Black Dell wired Keyboard KB216 Black Basic onsite service-36 months 13Y. Basic Advance Exchange Service	25 Nos.	104661.00	2616525.00		New CS Lab. (Mr. Suresh Kumar)
						18% GST	470974.50	
							3087499.50	
						or/any	3087500/-	


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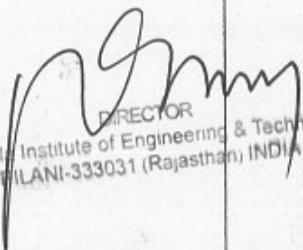
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Article Desktop Computers

S. No.	RPT No.	Date	Particulars	Qty.	Rate	Amount	Balance	Location
			Dell 22 Monitors - E2222 S.No. BD6PPT3, CF6PPT3, FD6PPT3, GF6PPT3, JD6PPT3, 3F6PPT3, 6F6PPT3, 8D6PPT3, 9F6PPT3, BF6PPT3, DD6PPT3, FF6PPT3, HD6PPT3, 1F6PPT3, 4F6PPT3, 7D6PPT3, 8F6PPT3, CD6PPT3, DF6PPT3, GD6PPT3, HF6PPT3, HF6PPT3, 5F6PPT3, 7F6PPT3, 7F6PPT3, Vend Part: 842093678					



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Article Computer - Refurbished

No.	RPT No.	Date	Particulars	Qty.	Rate	Amount	Balance	Location
	<u>298</u>	<u>21.6.23</u>	Refurbished Computers: HP Prodesk 600 G2 SFE Core i5 6th Gen. 8GB RAM 256GB SSD (M/s. Bhaskar Computer, Pilani) 108/15.6.23	30 Nos	9000/-	270000/-	NIL	Language Lab
	<u>297</u>	<u>21.6.23</u>	HP Combo wired keyboard & Mouse	30 Nos	529.66	15889.80	NIL	do
			HP Headphone with Mic (M/s. ARI Communications, 218/12.6.23 Pilani)	4	457.63	13728.90	NIL	do
						29618.76		
						5331.36		
						<u>34950/-</u>		


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