



TECNIA INSTITUTE OF ADVANCED STUDIES

GRADE "A" INSTITUTE

Approved by AICTE, Ministry of Education, Govt. of India, Affiliated to G.G.S.I.P. University
Recognized Under Sec. 2(f) of UGC Act 1956.

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UKAF-CB-011



ISO 50001
ENERGY MANAGEMENT

8(b) Status of Computer Labs

- (i) Total Number of computers available in labs**
- (ii) Total number of available licensed software**
- (iii) Quality of Internet connectivity**
- (iv) Power Back-up**



PC to Students Ratio 2023-24

8(b) Status of Computer Labs (UG: 1 per 6 students; PG: 1 per 3 students across all years or as per statutory body)

Course	Intake	Computer Required	Computer Available
MBA	40+120=160	54	60
MCA	30+0=30	10	20
BBA	180+180+120=480	80	120
BA(JMC)	120 +120+120=360	60	80
BCA	120+60+60=240	40	80
		244	360

(i) Total Number of computers available in labs

S.No.	Lab Type	No. of Computer
1	Computer Centre	200
2	Operating System Lab	42
3	Language Lab	45
4	Multimedia - Audio Visual Lab	16
5	Programming Lab.	55
6	Digital Library/ Multimedia PC	10
7	Library Department	05
8	Administrative Department	06

1. Computer Centre



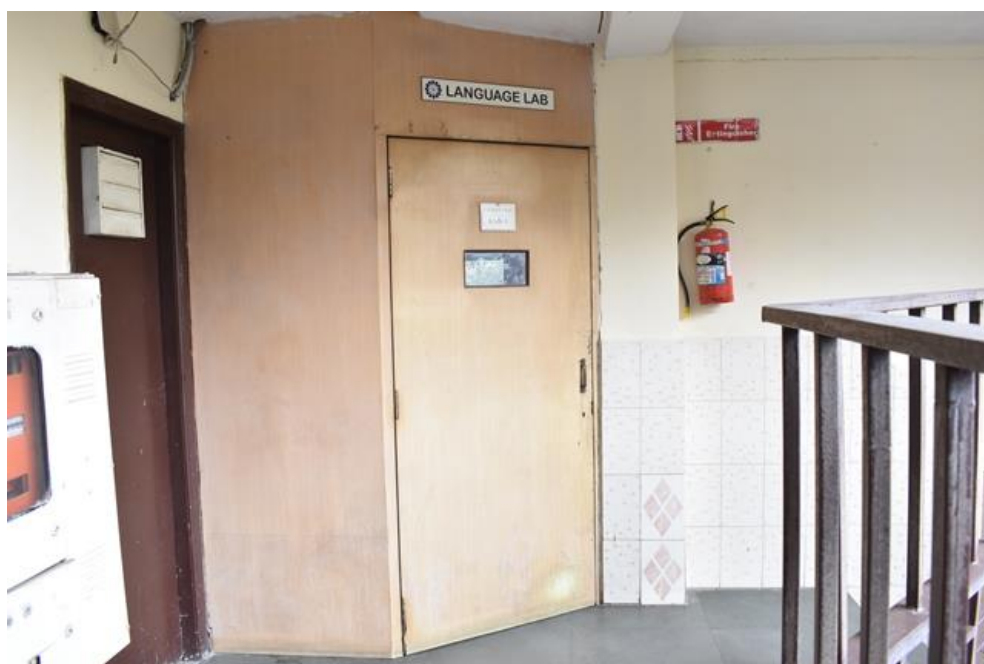
S.No.	Computer Configuration	No of Computer
1.	MODEL : Len-i3 CPU : 7th Gen. 64bit 2.7GHz Core i3 HD (GB) : 1TB RAM : 4GB DDR3 Monitor : 21.5" LED KB/MOUSE : YES ODD : YES ONLINE UPS : YES	35
2.	MODEL : Len-i3 CPU : 6 th Gen. 64bit 3.7GHz Core i3 HD (GB) : 500GB RAM : 4GB DDR3 Monitor : 19.5" LED KB/MOUSE : YES ODD : NA ONLINE UPS : YES	165

2. Operating System Lab



S.No.	Computer Configuration	No of Computer
1.	MODEL : Len-i3 CPU : 10 th Gen. 64bit 3.6GHz Core i3 HD (GB) : 1TB RAM : 4GB DDR4 Monitor : 18" LED KB/MOUSE : YES ODD : NA ONLINE UPS : YES	42

3. Language Lab



S.No.	Computer Configuration	No of Computer
1	MODEL : Len-i5 CPU : 12 th Gen. 64bit 2.5GHz Core i5 HD (GB) : 1TB RAM : 8GB DDR4 Monitor : 18" LED KB/MOUSE : YES ODD : NA ONLINE UPS : YES	45

4. Multimedia - Audio Visual Lab



S.No.	Computer Configuration	No of Computer
1.	I Mac Apple	05
2.	MODEL : Len-i5 CPU : 6 th Gen. 64bit 2.7GHz Core i5 HD (GB) : 500GB RAM : 8GB DDR4 Monitor : 18" LED KB/MOUSE : YES ODD : NA ONLINE UPS : YES	03
	MODEL : Len-i7 CPU : 11th Gen. 64bit 2.5 GHz Core i7 HD (GB) : 2TB RAM : 32GB DDR3 Monitor : 19.5" LED KB/MOUSE : YES ODD : YES ONLINE UPS : YES	06
	MODEL : Len-i3 CPU : 6 th Gen. 64bit 2.7 GHz Core i3 HD (GB) : 500GB RAM : 8 GB DDR4 Monitor : 18" LED KB/MOUSE : YES ODD : NA ONLINE UPS : YES	02

5. Programming Lab.



S.No.	Computer Configuration	No of Computer
1.	MODEL : Len-i5 CPU : 6 th Gen. 64bit 2.7GHz Core i5 HD (GB) : 500GB RAM : 8GB DDR3 Monitor : 19.5" LED KB/MOUSE : YES ODD : NA ONLINE UPS : YES	55

Open Source S/W : 13			
S.No.	COMMERCIAL SOFTWARE		OPEN SOURCE SOFTWARE
1	Matlab	→	Scilab
2	Simulink	→	Xcos
3	Fluent	→	OpenFOAM
4	SPSS	→	R
5	ORCAD, PSpice	→	eSim
6	AspenPlus CHEMCAD Simsci P RO/II	→	DWSIM, OpenModelica
7	CYME, ERACS, PSSE, ETAP	→	OpenModelica and OpenIPSL
8	Adobe Photoshop	→	GIMP
9	Coreldraw, Adobe Illustrator	→	Inkscape
10	Pagemaker, QuarkXPress, Adobe Indesign	→	Scribus
11	Maya, 3D Max	→	Blender 3D
12	Adobe flash	→	Synfig Studio
13	Windows	→	Linux

6. Number of System Available in Digital Library/ Multimedia PC

S. NO.	CPU	HDD (GB)	RAM	MONITER/ TFT	KEYBOARD/ MOUSE	ODD	UPS
1	C2D 2.8 Ghz	500	4GB	15.6" TFT	Yes	CD ROM	600 VA
2	I3	500	4GB	15.6" CRT	Yes	CD ROM	600 VA
3	I3	500	4GB	15.6" CRT	Yes	CD ROM	
4	I3	500	4GB	15.6" CRT	Yes	No	
5	C2D 2.8 Ghz	500	4GB	15.6" TFT	Yes	CD ROM	600 VA
6	C2D 2.8 Ghz	500	4GB	15.6" CRT	Yes	CD ROM	
7	I3	500	4GB	15.6" CRT	Yes	No	
8	I3	500	4GB	15.6" CRT	Yes	CD ROM	
9	I3	500	4GB	15.6" CRT	Yes	No	
10	I3	500	4GB	15.6" TFT	Yes	No	

7. Number of System Available in Library Department

S. NO.	CPU	HDD (GB)	RAM	MONITER /TFT	KEYBOARD /MOUSE	ODD	UPS
1	6th Gen. 64bit 2.7GHz Core i5	500GB	8GB	19.5" TFT	Yes	CD ROM	YES
2	C2D 2.8 Ghz	500	1GB	15.6" TFT	Yes	CD ROM	600 VA
3	C2D 2.8 Ghz	500	1GB	15.6" TFT	Yes	DVD Writer	600 VA
4	C2D 2.8 Ghz	500	1GB	15.6" TFT	Yes	No	600 VA
5	C2D 2.8 Ghz	500	1GB	15.6" TFT	Yes	CD ROM	600 VA

8. Number of System Available in Administrative Offices

S. NO.	CPU	HDD (GB)	RAM	MONITER/ TFT	KEYBOARD /MOUSE	ODD	UPS	USER
1	i3	500	4GB	15.6" TFT	Yes	CD ROM	600 VA	Account Deptt.
2	i3	500	4GB	15.6" TFT	Yes	DVD Writer	600 VA	HR
3	C2D 2.8 Ghz	500	1GB	15.6" TFT	Yes	No	600 VA	Exam Cell
4	i3	500	4GB	15.6" TFT	Yes	CD ROM	600 VA	Director Office
5	i3	500	4GB	15.6" TFT	Yes	CD ROM	600 VA	Director Office
6	i5	1TB	4GB	15.6" TFT	Yes	CD ROM	600 VA	Statutory Dept.

(ii) Total number of available Licensed Software's



System Software

Sr. No	Product	Description	Category	License No.
1.	Microsoft Windows 10 Educational	Windows 10	Licensed	V-4360839
2.	Microsoft Back Office Server 4.5	Developer Edition	Licensed	V-4360839
3.	Red Hat Enterprise Linux	Operating System	Open source	NA
4.	Android – 8.0 Oreo	English OLP NL AE User CAL	Open Source	NA
5.	Microsoft Windows Server CAL 2008	Windows Server CAL 2008	Licensed	V-4360839

Application Software

Sr. No	Product	Qty	Category	License No.
1.	Microsoft Certified Campus	55	Licensed	V-4360839
2.	Adobe PageMaker 7.0	10	Licensed	90039351/ 7332838
3.	Adobe Photoshop's	14	Licensed	PN 23101805
4.	Adobe In design CS 4 6.0 DVD Academic	14	Licensed	7332838
5.	Quark Express 7.0	3	Licensed	JZ50580768144
6.	CorelDraw	1	Licensed	3516309197
7.	Oracle Standard Edition 11g	1	Licensed	CSI#16135318
8.	SPSS 17.0	1	Licensed	228019
9.	IBM Rational Rose Enterprise Authorized user License	1	Licensed	7448831
10.	Tally 9.0 ERP Gold	3	Licensed	795022911
11.	Codegear C++ Builder 2009 Professional	1	Licensed	91206
12.	Final Cut Pro	1	Licensed	166184528443
13.	Edius Pro 8.0	1	Licensed	EPR8-STR-E (S.No.182085- E8CGHEWN99THK8N5)
14.	Light room	18	Licensed	
15.	Illustrator	18	Licensed	
16.	Acrobat DC	18	Licensed	
17.	Bridge	18	Licensed	
18.	Audition	18	Licensed	

19.	Flash professional	18	Licensed	
20.	Dreamweaver	18	Licensed	
21.	InCopy	18	Licensed	
22.	Fuse	18	Licensed	
23.	Prelude	18	Licensed	
24.	Firework	18	Licensed	
25.	Flash builder premium	18	Licensed	
26.	Premier Pro	18	Licensed	
27.	Gaming SDK 1.4	18	Licensed	
28.	Adobe Extension Manager	18	Licensed	
29.	Extend Script toolkit	18	Licensed	
30.	Maya Software	1	Licensed	
31.	LogicSim 3.3	1	Freeware	N/A
32.	Mysql 5.7	1	Open Source	N/A
33.	GNS3	1	Open Source	N/A
34.	Weka 3.6	1	Open Source	N/A
35.	PHP 5.3	1	Open Source	N/A
36.	Apache Tomcat 7.0	1	Open Source	N/A
37.	Kforge 0.18	1	Open Source	N/A
38.	swi-prolog 5.10	1	Open Source	N/A
39.	SOOL	1	Open Source	N/A
40.	Apache Jmeter 2.4	1	Open Source	N/A
41.	Fedora 25	1	Open Source	N/A
42.	JDK 8.0	1	Open Source	N/A

(iii) Quality of Internet connectivity



100 Mbps from Spectra Pvt. Ltd.

Internet Bandwidth	: 100 Mbps
Wi-Fi Connectivity	: 8 Mbps
Hotspots	: 05

Network Devices	Quantity
D-Link 24 Port switch	29
D-Link 16 Port switch	3
D-Link 8 Port switch	14
D-Link Router	1

Firewall

Product	Details
Firewall	Cyberoam 100ing
Online UPS	03

Printer Details:-

Printers specification	Quantity
CANON LBP 2900	21
HP LASER JET 1020	2
HP LASER JET 1025	1
HP ALL IN ONE	1
HP LASER JET CP 1025 COLOR	2
Total:-	25+2=27

Scanner Detail

Scanner Specification	Quantity
CANON LIDE 110	3
CANON LIDE 120	4
HP SCANJET G2410	1
Total	8

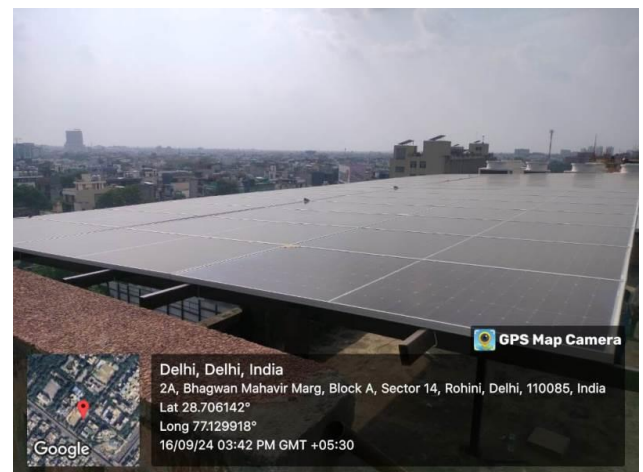
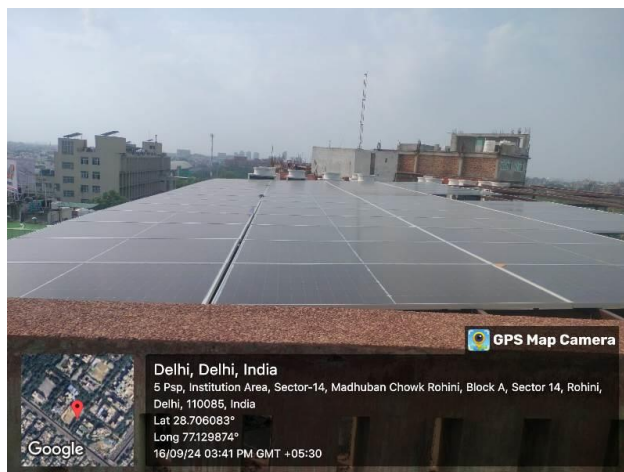
LCD Projectors

LCD Projection specification	Quantity
Configurations	Quantity
Sony VPL-ES7	6
Sony DX-100	10
Sony EX-100	3
Sony VPL-FX-52	1
Casio XJ140	1
EPSON EB430	1
NEC NP110	1
Sony VPL DX 220	10
Total	33

(iv) Power Back-Up

A. Alternate Source of Energy: Solar Power Plant

S. No	Particular	No.	Capacity	Location
1	Solar panels (on Grid) Three phase (Size 545-555wp)	70	50KW	UG Block
2	Inverter (on Grid 50 KW) Bifacial Modular	1	50KW	UG Block
3	Battery (K Solary)	1	50KW	



Solar panels on the TIAS Building Roof top

B. The institute is equipped with power generator, details below

S. No	Particular	Capacity	Location
1	Cummins Power Generator	125KV	UG Block
2	Cummins Power Generator	125KV	PG Block



Availability of Generator in the Building for electricity Back up Supply

C. The institute is equipped with Online UPS

S.No	Particular	Capacity	Location
1	Eaton Online UPS Model No.20,000 HXL/ 31 Rating with 20 No. Quanta Batteries with Rack	20KVA	UG Block
2	Eaton Online UPS Model No.20,000 HXL/ 31 Rating with 20 No. Quanta Batteries with Rack	20KVA	PG Block
3	Eaton Online UPS Model No.20,000 HXL/ 31 Rating with 20 No. Quanta Batteries with Rack	20KVA	Admin Block



Availability of Online UPS Supply