



## Criteria 4 Physical facility

### 4.1.1: The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

**Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)**

BKBIET is approved by AICTE and therefore meets all infrastructure requirements of Engineering and technological institutions. The institute is located in a campus of 18.01 acres, consisting of one Administrative block and three Academic blocks. Academic area consists of 28 classrooms, 35 laboratories, 14 tutorial rooms, 5 seminar halls, one workshop, one drawing hall, and one computer centre. Faculty members are allotted cabins in the academic area. A cabin is shared by two faculty members. There are single occupancy HOD chambers. Technical staff is located in the respective laboratories for which they are responsible.

The Institute runs a special centre called, Birla Professional Training and Research Centre. This is a nodal centre for all training carried out at BKBIET and has its own dedicated labs/workshops for industry-relevant training as well as 3 lecture halls. Besides running its own programmes, the Centre also manages all soft/technical skills programmes of BKBIET. All activities related to placement are also carried out here.

ICT enabled teaching facilities are available in two lecture halls of BPTRC and in all laboratories of the Institute. The Institute has an ERP system on which student data like attendance and marks is available. Feedback from students is obtained on Google sheets. Lecture notes and similar teaching material is available on the Institute web site [bkbiet.ac.in](http://bkbiet.ac.in) for anywhere, anytime access. It is also available on Google Classroom. ICT is also used in the accounts department and accounts are maintained in Tally.

Extra-curricular activities are carried out in the amphitheatre (capacity 1200) and the Sarla Birla Activities Centre, comprising one gym, dance room, music room, creativity room, badminton courts, TT tables etc. Cricket and football grounds as well as courts for, basketball, volleyball, and lawn tennis are also available. The NCC store room for the NCC company is located in BITS campus from where the BKBIET unit issues material as needed. NCC activities are co-ordinated by the NCC office of BKBIET located on the campus itself.

The boys hostel has 71 single-seat and 266 double-seat rooms. The girls hostel has 138 double-seat rooms. Internet facilities are available in both hostels. BKBIET provides staff housing on campus. There are 69 faculty quarters and one Director's bungalow. BKBIET has its own guest house. Vegetables are grown in the Botanical garden on campus.




# B K Birla Institute of Engineering & Technology

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There is a mart for daily needs and groceries as well as a canteen. The dispensary is staffed by a qualified pharmacist for first aid. Student/resident faculty members are sent to Birla Sarvajanik Hospital by the BKBIET ambulance if required. There are miscellaneous facilities like electricity room and electrical backup, water supply is by bore wells and RO facilities are available

  
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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

## SUPPORTING DOCUMENTS

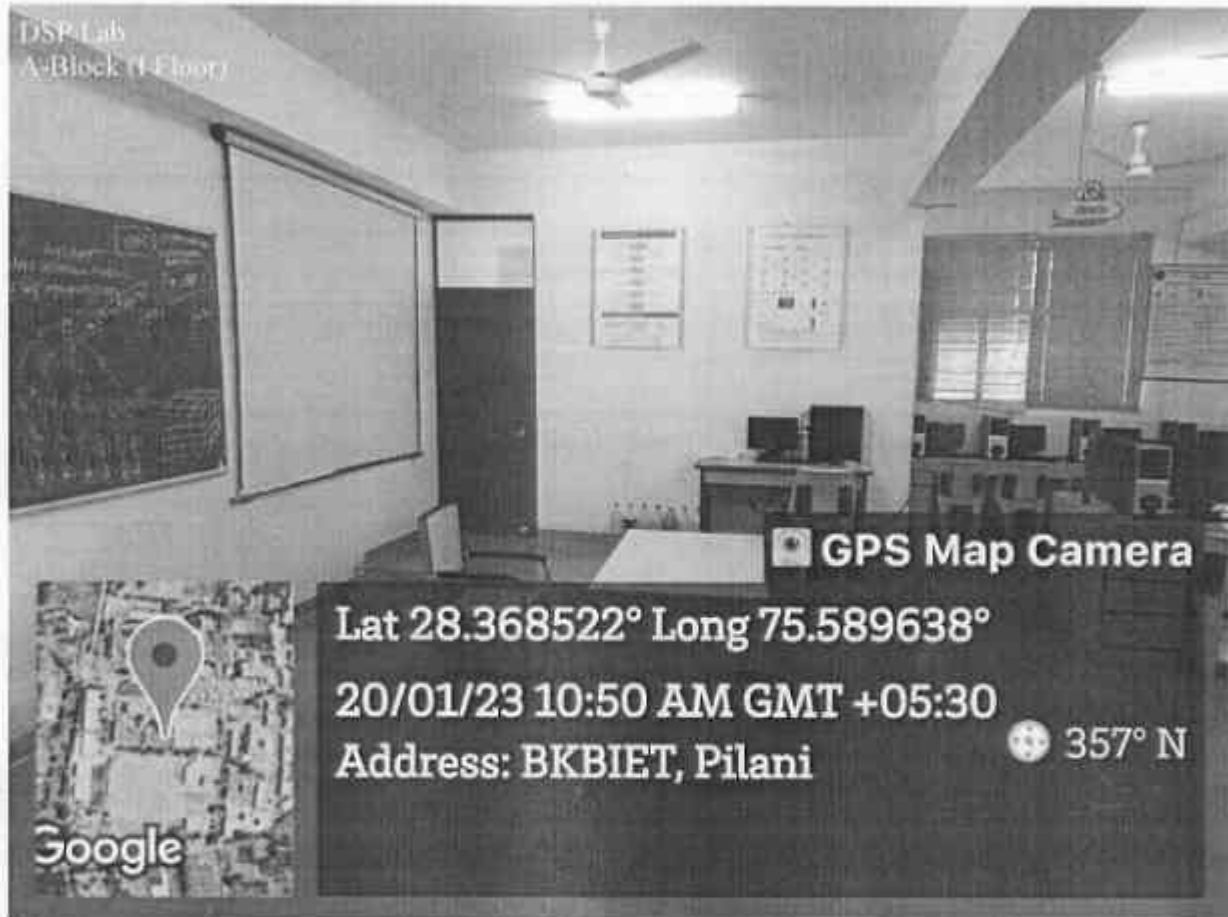
### 4.1.1 Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

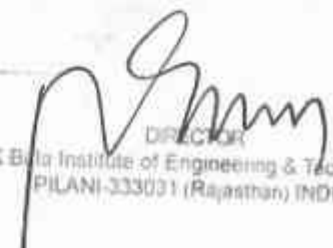
S No.	Room number or Name of classrooms/Seminar Hall with LCD / wifi/LAN facilities with room numbers	Type of ICT facility
<b><u>BLOCK-A</u></b>		
1	DSP Lab	Projector, Wifi/LAN
2	AI Lab	Projector, Wifi/LAN
<b><u>BLOCK-B</u></b>		
1	Physics Lab	Projector, Wifi/LAN
<b><u>BLOCK-ADMIN</u></b>		
1	Computer Lab-1	LCD Projector, Wifi/LAN
2	Computer Lab-2	LCD Projector, Wifi/LAN
3	Meeting Hall	LCD Projector, Wifi/LAN, VC system
4	Seminar Hall	Projector, Wifi/LAN
<b><u>BLOCK-BPTRC</u></b>		
1	Seminar Hall-1	Projector, Wifi/LAN, Speakers, Mic
2	Seminar Hall-2	Projector, Wifi/LAN, Speakers, Mic
3	Seminar Hall-3	Projector, Wifi/LAN
<b><u>BLOCK-MECHANICAL</u></b>		
1	M-4	LCD Projector, Wifi/LAN
2	Amphitheatre	Projector, Wifi/LAN, Speakers, Mic

  
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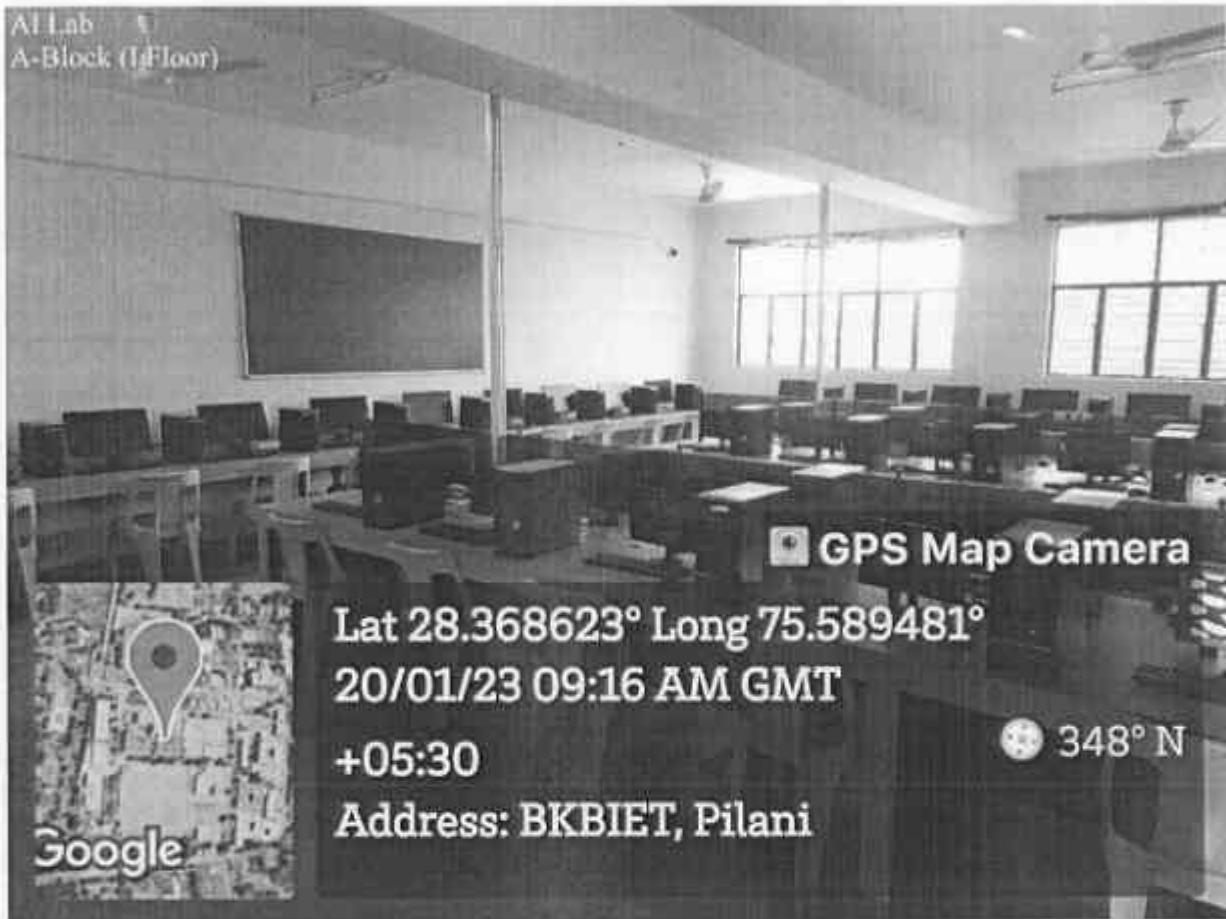
Classrooms with ICT - enabled facilities such as smart class Geo-tagged  
Photographs of class Rooms with ICT enabled facilities:


## DSP\_Lab



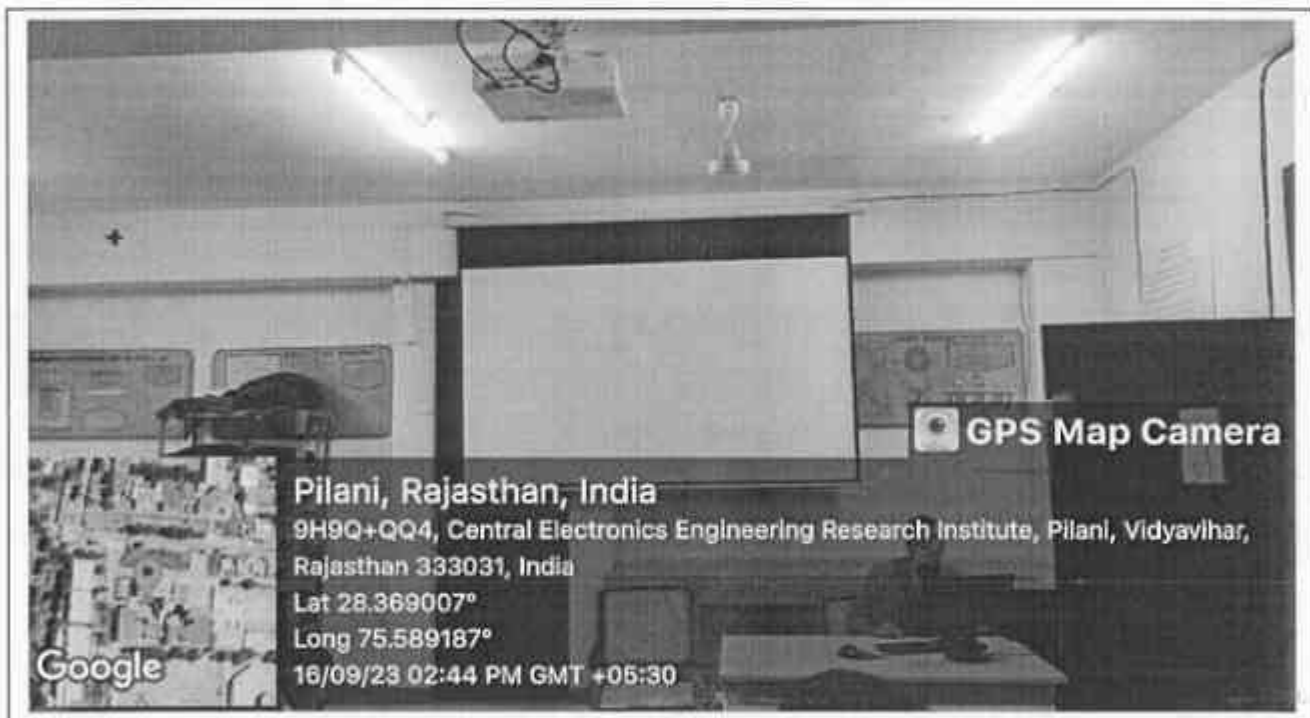
  
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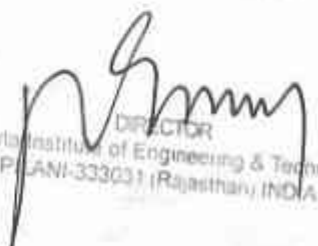
# AI\_Lab



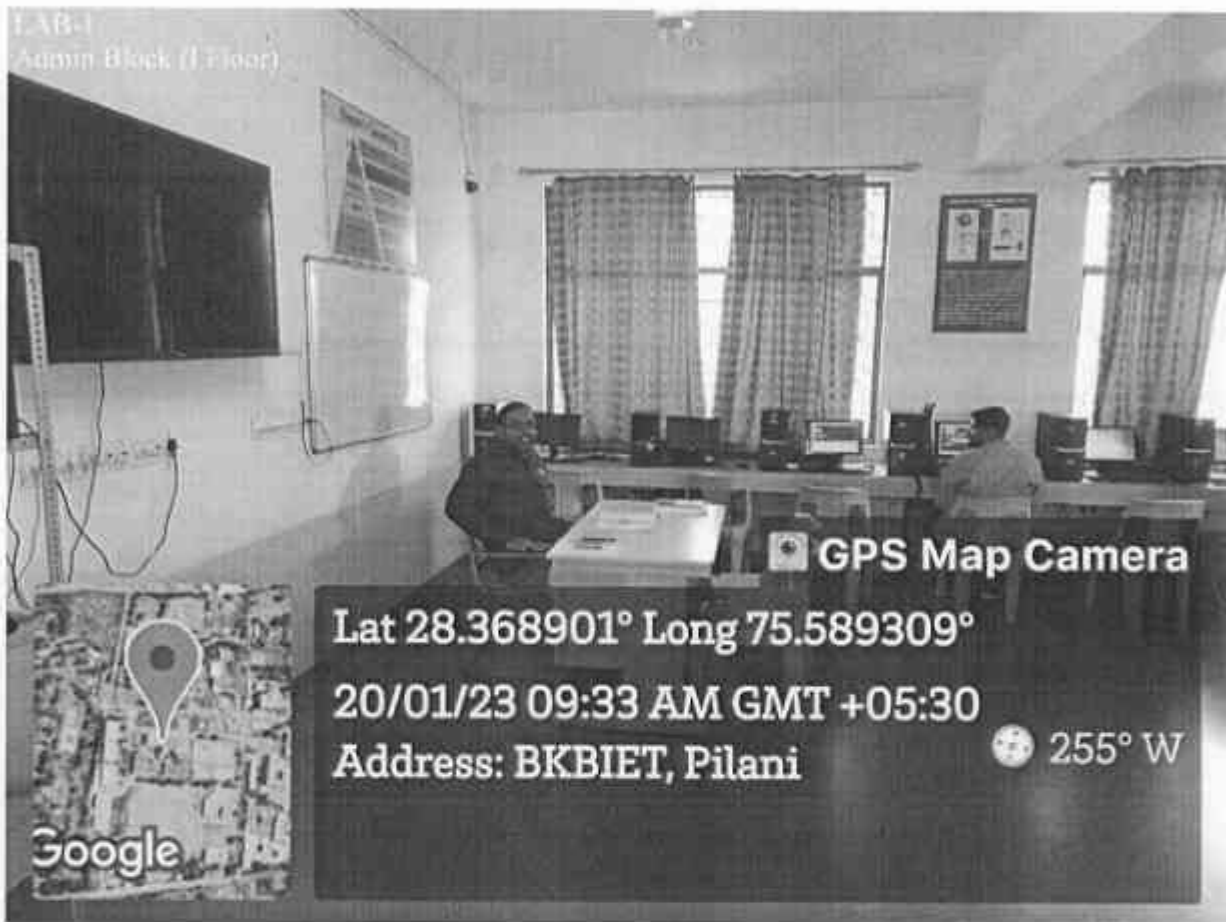
  
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# Physics Lab



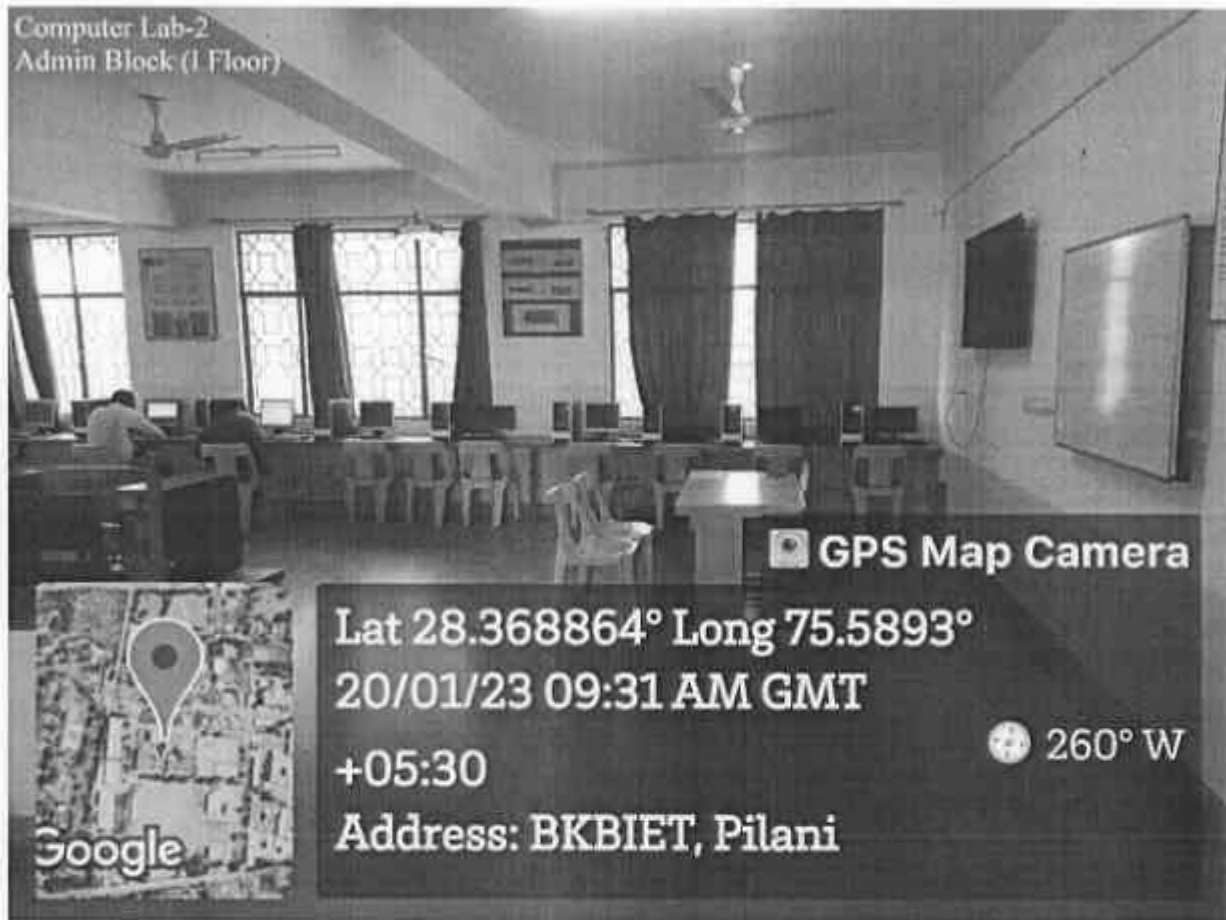
  
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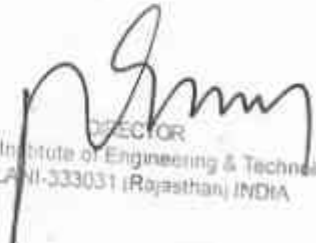
# Computer Lab-1



*[Signature]*  
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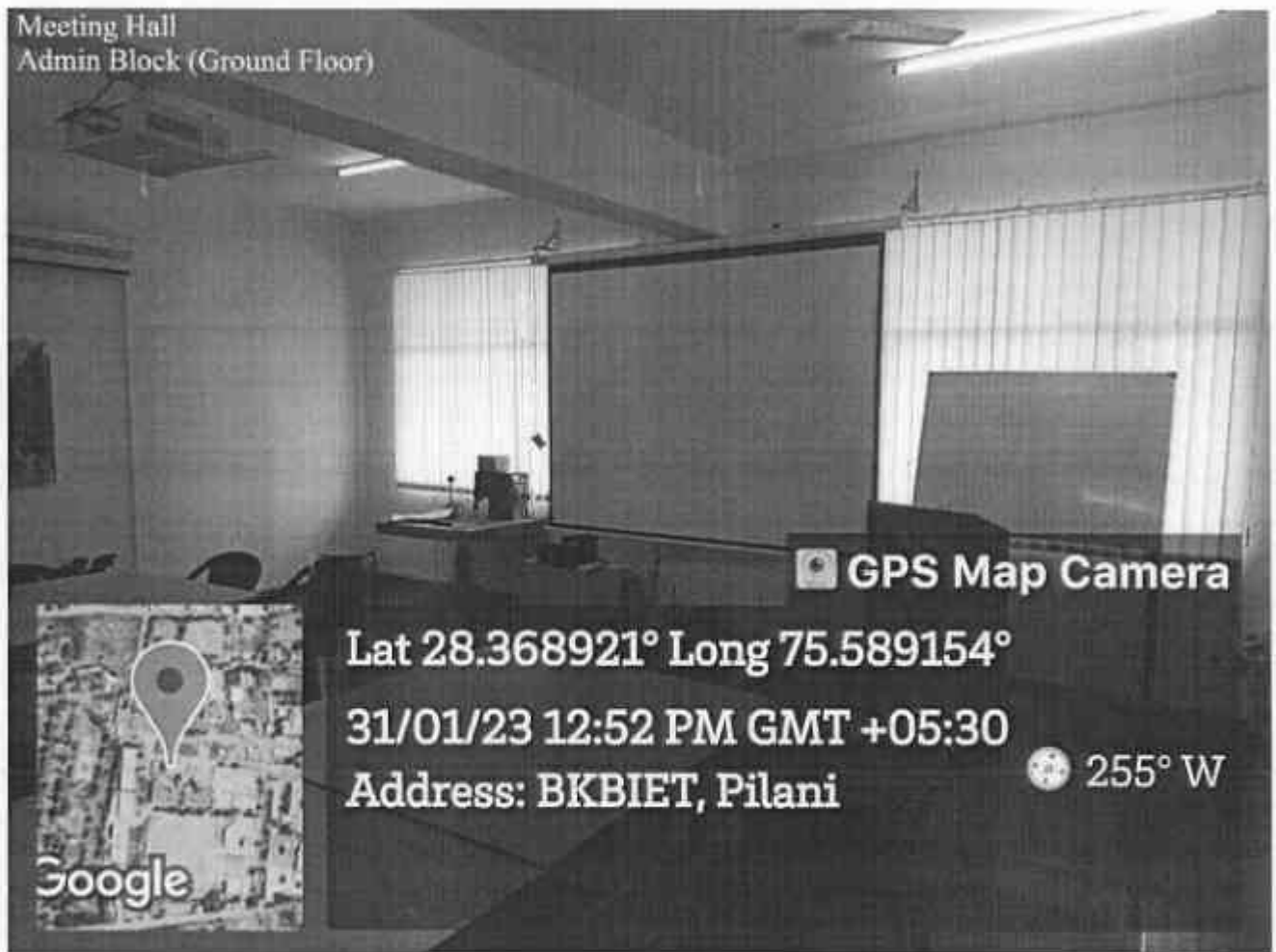
## Computer Lab-2

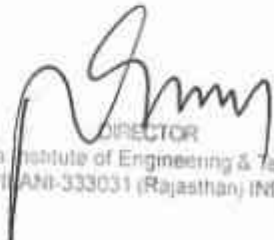


  
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# Meeting Hall



  
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# Seminar Hall



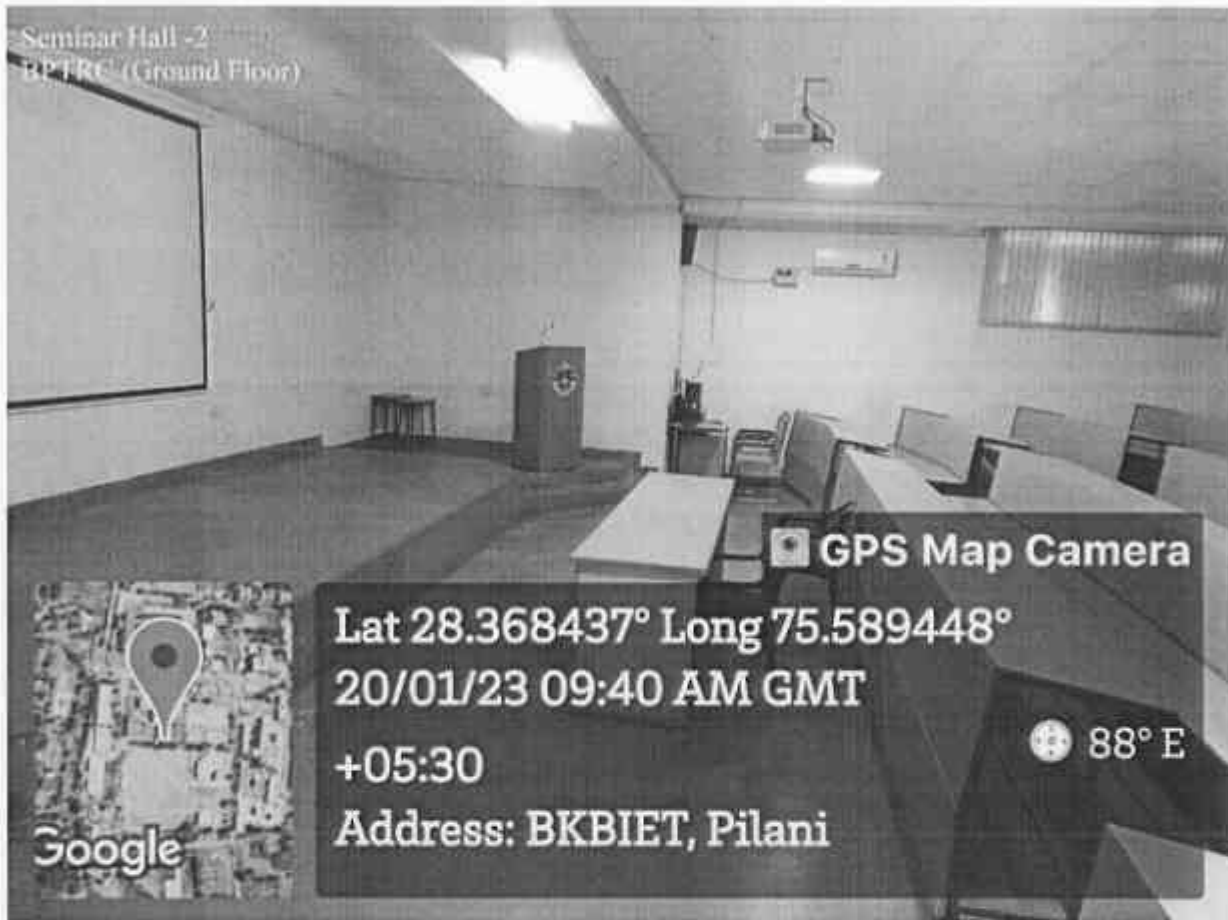
  
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## Seminar Hall-1



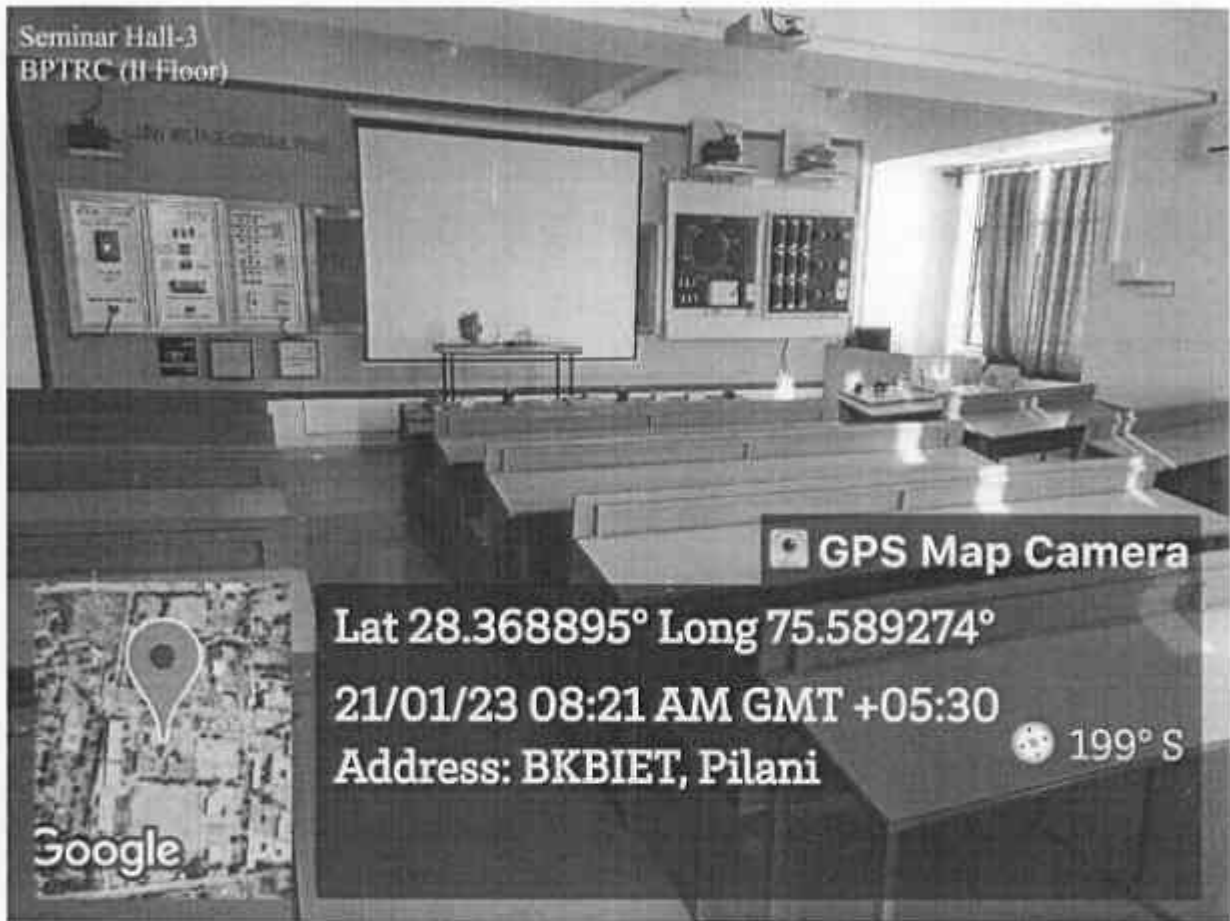
  
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## Seminar Hall-2



  
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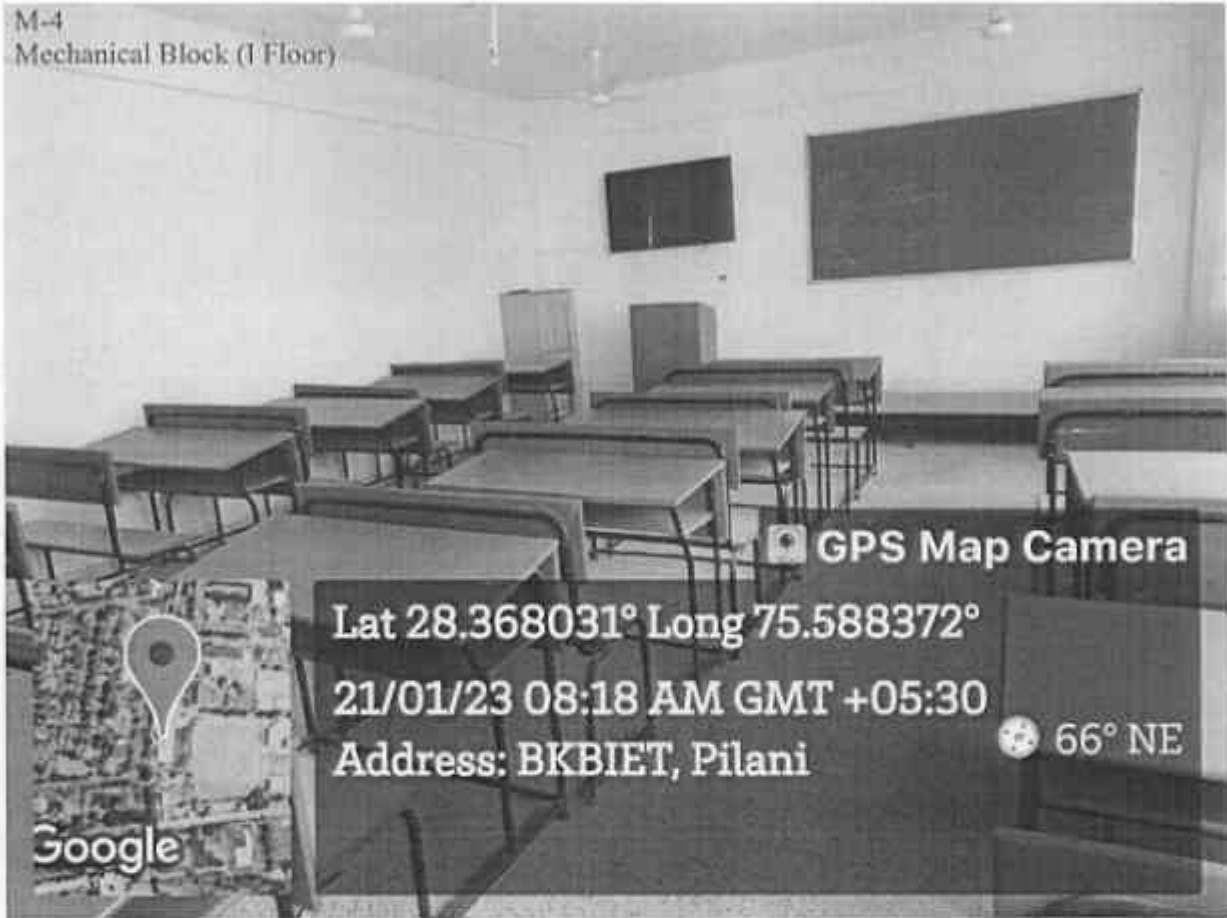
## Seminar Hall-3




  
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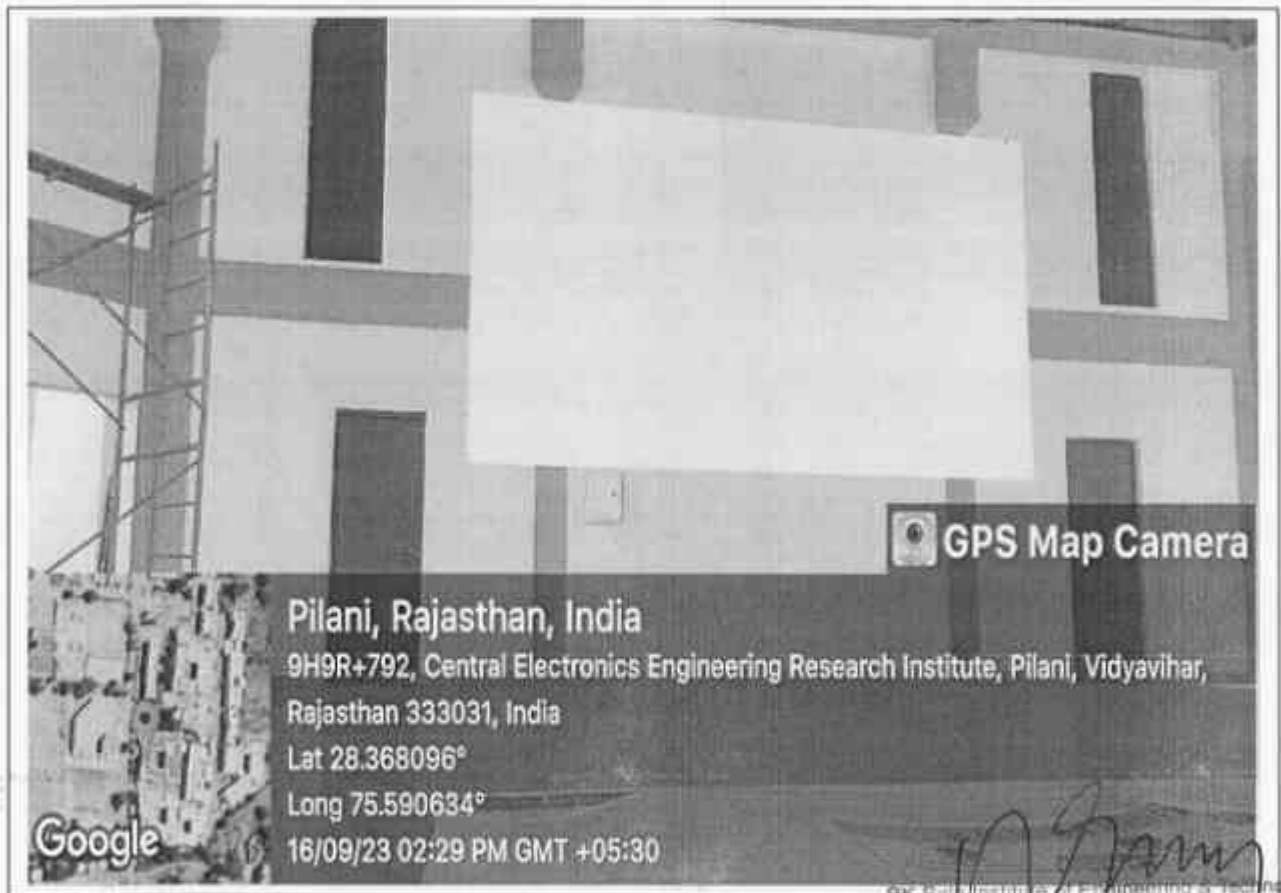
M-4

M-4  
Mechanical Block (1 Floor)



  
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# Amphitheatre





# B K Birla Institute of Engineering & Technology

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Dist. Jhunjhunu, Rajasthan, INDIA. Ph. 01596 246 092  
Website : www.bkbiel.ac.in

## CCTV Report As On Date 05/07/2023

S. No.	Make	Model No.	Sr. No./ IP Address	No. of Camera	Camera Coverage	DVR Location	Campus Building
1	MaxEye	MI-5004	2015A85606354	3	Admin Loby-1 N Linkage passage-1 S Staff Car Parking-1 E	Store Room	Admin Block
2	MaxEye	1280R	201703300001	5	Reference Library- 1 E Reference Library-1 W Rack-1 W Linkage passage-1 I-Floor	Reference Library West Side	Admin Block
3	Enter	R7816	18460320416266	15	A1-1,A2-1,A3-1,A4-1, A5-1,A6-1,A7-1,A8-1, DSP Lab-1, AC Machine Lab-1, DC Machine Lab-1, Basic Electrical Lab-1, Electrical Drives Lab-1, Exam Cell-1, Principal Academic -1	Principal Academic Room	A Block
4	MaxEye	MI-5004	2015A85606355	2	1 Floor Passage-1, Ground Floor Entrance-1	Principal Academic Room	A Block
5	Enter		000C41000129	14	B1-1,B2-1,B3-1,B4-1,DE Lab-1,MP Lab-1,EDC Lab-2, RTU Cell-1, Training cell-1, Physics Lab-1, Instrumentation Lab-1, Chemistry Lab-1, T Point of A&B Block	EDC LAB Faculty Room	B Block
6	MaxEye	MI-5004	2015A85606347	2	Ground Floor passage Corner-1, 1 Floor passage Corner-1,	EDC LAB Faculty Room	B Block
7	Hanse	HDV-470		4	Gate 1 Parking-1, Security Room North side-1, Entrance-2	Gate 1	
8	Hanse	HDV-870		6	Entrance-3, Parking-1, Vollyball Ground-1, Security Room-1	Gate 2	
9	MaxEye	MI-5004	2015A85606349	2	Girls Hostel Gate-2	Girls Hostel	Girls Hostel
10	Hanse	HDV-870		3	New Girls Hostel Boundary Wall -2, Front View of New Girls Hostel	New Girls Hostel Warden Quarter	Girls Hostel
11	MaxEye	AHD3304TLM	201710140001	4	Boys Hostel Gate-1, Hostel A-1, Hostel B-2, Mess Entrance	Hostel superintendent Room	Boys Hostel

  
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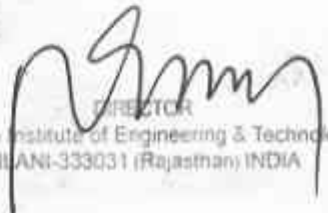


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Dist. Jhunjhuna, Rajasthan, INDIA, Ph. 01596 246 002  
Website : www.bkbiel.ac.in

## CCTV Report As On Date 05/07/2023

12	MaxEye	MI-5004	2017A85606350	4	Hostel Mess Hall 1-2, Hostel Mess Hall 2-2	Hostel Mess Room	Boys Hostel	18 day Backup
13	MaxEye	MI-5004	2015A85606351	01	Behind Hostel Mess	Boys Hostel Warden Quarter C Block	Boys Hostel	18 day Backup
14	MaxEye	MI-5004	2015A85606350	03	Boys Mess Hall 3 D block-2, Sports Room-1	Hostel superinten dent Room D Block	Boys Hostel	18 day Backup
15	MaxEye	MI-5004	2015A85606352	04	Halls-2, Entrance-1, Stair case-1	Sports Complex	Sports Complex	18 day Backup
16	Enter	ESD 402	1307048382	04	Outside Canteen	Canteen	Canteen	18 day Backup
17	MaxEye	MI-5004	2015A85606352	03	E Block Passage-2, E block Entrance-1	E Block passage I Floor	E Block	18 day Backup
18	MaxEye	MI-5004	2015A85606352	03	Staff canteen Area-1, Front & Back E Block Ground Floor	E Block Faculty Room Ground Floor	E Block	18 day Backup
19		2004D		04	Hall1-1, Hall2-2, Entrance- 1, Staircase-1	BPTRC Faculty Room Ground Floor	BPTRC Block	18 day Backup
20	MaxEye	AHD- 3304TLM	201710140001	04	Computer Lab-1, BIC Lab- 1, Electrical Motor & PLC- 1, Staircase II Floor-1	BIC LAB Store Room	BPTRC Block	18 day Backup
21	MaxEye	AHD33 04TLM	201710140001	04	Entrance C Block- 1, Entrance D Block-1, Computer Lab Ground Floor-1, Passage North side-1	PA Office Room D Block	D Block	18 day Backup
22	MaxEye	AHD33 04TLM	20173300001	04	Physics Lab-1, Computer Lab II floor-1, Passage I Floor-1, Passage II Floor-1	Physies Lab C Block	C Block	18 day Backup
23	Hikvision	5MP		08	Hostel	D Block	Hostel	1 month Backup
24	CP Plus	5MP		12	Admin Block, Director Office, Library	Admin Block	Admin block	18 days Backup

  
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# B.K. Birla Institute of Engineering & Technology

Pilani (Raj.) 333 031

BK Birla Institute of Engineering and Technology, Pilani

Report on

## Listing of Core Computing & Manufacturing

### About BKBIET

B. K. Birla Institute of Engineering & Technology is one of the premier industry-oriented and application-driven institutes in India. Shree Krishnarpan Charity Trust, under Chairmanship of renowned industrialist Mr Basant Kumar Birla, set up BKBIET, in 2007.

The Institution has been true to its commitment in providing quality education in Engineering and Technology. Our strong alliances with leading international universities, industries and professional bodies have increased access to latest education, opportunities for engagement and exchange, collaborative research and innovation for our students and faculties. We believe the best way to help BKBIETians meet challenges is to provide a supportive and enriching environment.



  
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## LISTING OF CORE COMPUTING


### COMPUTER SCIENCE ENGINEERING DEPARTMENT LABORATORY

This course has its core in bringing in more innovations into technology while also going beyond the fundamentals. This allows the students to build up their interest in the specialized research, their growing ability for better hardware production, growing skills to invent new operating systems. This builds their overall understanding of hands-on technology.

Computer Science and engineering focuses on theory, algorithms programming languages, Virtualization, visualization, networking, databases, software engineering and quality, design of system and application software, cryptography and architectures. It involves various technology trends which are Artificial intelligence, Machine Learning, Cloud computing, Block chain, Cyber Security, big data, Internet of things, augmented and virtual reality, Robotic process automation and edge computing.

#### 1. Computer Labs Description

BK Birla Institute of Engineering & Technology, Pilani (Rajasthan)				
COMPUTER SCIENCE ENGINEERING DEPARTMENT				
AREA of LAB				
S. No	Name	Name of Course	Name of the Laboratories	Total area of Lab
1	Computer Lab 1 (Programming Lab-I)	B. Tech. Computer Science Engineering	Computer Lab- 1 FIRST FLOOR (Admin Block)	$59.125' \times 45.50' = 2690.19 \text{ Sq.}'$ OR $18.02\text{m} \times 13.87\text{m} = 240.90\text{m}^2$
2	Computer Lab 2 (Programming Lab-II)	B. Tech. Computer Science Engineering	Computer Lab- 2 FIRST FLOOR (Admin Block)	$47.25' \times 45.50' = 2149.88 \text{ Sq.}'$ OR $14.40\text{m} \times 13.87\text{m} = 199.71\text{m}^2$
3	Computer Lab 3 (DSP/ VLSI LAB)	B. Tech. Computer Science Engineering	Computer Lab- 3 FIRST FLOOR (A Block)	$48.63' \times 33' = 1604.63 \text{ Sq.}'$ OR $14.82\text{m} \times 10.06\text{m} = 149.15\text{m}^2$

  
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				500 GB	
4.	Computer System	Assembled		Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	Computer Lab 2
5.	Computer System	Assembled		Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	Computer Lab 3
6.	Computer System	Assembled		Intel Dual Core 2.7GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	Computer Lab 3
7.	Computer System	Assembled		Intel Dual Core 2.8GHZ Monitor TFT 19" RAM 1GB HDD 160 GB	Computer Lab 3
8.	Computer System	Assembled		Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	Computer Lab 4
9.	Computer System	Assembled		Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	Computer Lab 4
10.	Computer System	Assembled		Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB	Computer Lab 5
11.	Computer System	Assembled		Intel I3 2nd Generation Monitor 15.6" RAM 4GB HDD 500 GB	Computer Lab 5
12.	Computer System	Assembled		Intel I3 2nd Generation Monitor 15.6" RAM 4GB HDD 500 GB	Computer Lab 6
13.	Network Switch	HCL	HCL-24TMS- 2GCS	HCL24Port 10/100mbps managed Stacke cable Switch with	Computer Lab 1

  
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				2Gigabit Dual media sfp port	
14.	Patch Panel	HCL		24 Port	Computer Lab 1
15.	Network Rack	COMRac		16U	Computer Lab 1
16.	Network Switch	CISCO	Sf300-24	24port 10/100 managed Switch 2sfp port	
17.	Network Rack	COMRac		9U	Computer Lab 1
18.	Network Switch	Netgear	Prosafe24 Port	24port 10/100 unmanaged Switch	Computer Lab 2
19.	Network Switch	Netgear	Prosafe24 Port	24port 10/100 unmanaged Switch	Computer Lab 2
20.	Network Switch	Netgear	Prosafe24 Port	24port 10/100 unmanaged Switch	Computer Lab 2
21.	Network Rack	COMRac		9U	Computer Lab 2
22.	Network Switch	Netgear	Prosafe24 Port	24port 10/100 unmanaged Switch	Computer Lab 3
23.	Network Rack	COMRac		4U	Computer Lab 3
24.	Network Switch	Netgear	Prosafe24 Port	24port 10/100 unmanaged Switch	Computer Lab 4
25.	Network Rack	COMRac		4U	Computer Lab 4
26.	Network Switch	Netgear	Prosafe24 Port	24port 10/100 unmanaged Switch	Computer Lab 5
27.	Network Rack	COMRac		4U	Computer Lab 5
28.	Server	HCL		Xeon 3.0 4MB(Dual), 2GB RAM, 160 GB HDD	Computer Lab 1
29.	Server	DELL	Dell Power Edge T440		Computer Lab 1
30.	UPS	Microtek		Online UPS 3KVA 1 Phase with 6 Battery	Computer Lab 1

**Table 6.1e: List of Equipment's and its Configuration**

**3. List of Software's in Labs**

S. No.	Description	Type	Qty.
1	Windows Server 2003 Enterprise OLP License	S/W	1
2	Windows Server CAL OLP	SAV	55



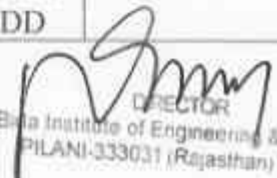
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4	Computer Lab 4/ (Advanced DBMS Lab)	B. Tech. Computer Science Engineering	Computer Lab- 4 FIRST FLOOR (D Block)	34'*40'=1360 Sq. <sup>7</sup> OR 126.39m <sup>2</sup>
5	Computer Lab 5/ (Web Designing Lab)	B. Tech. Computer Science Engineering	Computer Lab- 5 FIRST FLOOR (BPTRC Block)	1260 Sq. <sup>7</sup> OR 117.10m <sup>2</sup>
6	Computer Lab 6/ (Advanced Design Lab)	B. Tech. Computer Science Engineering	Computer Lab- 6 FIRST FLOOR (E Block)	60'*20'=1200 Sq. <sup>7</sup> OR 111.52m <sup>2</sup>
7	Computer Lab 7/ (IoT Lab)	B. Tech. Computer Science Engineering	Computer Lab- 7 FIRST FLOOR (BPTRC Block)	1260 Sq. <sup>7</sup> OR 117.10m <sup>2</sup>

**Area of lab**

**2. List of Equipment's and its Configuration**

S. No.	Name	Brand	Model No.	Specification	Location
1.	Computer System	HCL	Infiniti LX PRO BL/ 1265	Intel Dual Core 2.8GHZ,  HCL Digital Color TFT Monitor 15.6", RAM 2GB, HDD 80 GB, Keyboard & Mouse	Computer Lab 1
2.	Computer System	HCL	Infiniti LX PRO BL/ 1265	Intel Dual Core 2.6 GHZ,  HCL Digital Color TFT Monitor 15", RAM 2GB, HDD 80 GB, Keyboard & Mouse	Computer Lab 1
3.	Computer System	Assembled		Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD	Computer Lab 2

  
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3	Enter	R7816	18460320416266	15	A1-1,A2-1,A3-1,A4-1, A5-1,A6-1,A7-1,A8-1, DSP Lab-1, AC Machine Lab-1, DC Machine Lab-1, Basic Electrical Lab-1, Electrical Drives Lab-1, Exam Cell-1, Principal Academic -1	Principal Academic Room	A Block
4	MaxEye	MI-5004	2015A85606355	2	1 Floor Passage-1, Ground Floor Entrance-1	Principal Academic Room	A Block
5	Enter		000C41000129	14	B1-1,B2-1,B3-1,B4-1,DE Lab-1,MP Lab-1,EDC Lab-2, RTU Cell-1, Training cell-1, Physics Lab-1, Instrumentation Lab-1, Chemistry Lab-1, T Point of A&B Block	EDC LAB Faculty Room	B Block
6	MaxEye	MI-5004	2015A85606347	2	Ground Floor passage Corner-1, 1 Floor passage Corner-1,	EDC LAB Faculty Room	B Block
7	Hanse	HDV-470		4	Gate 1 Parking-1, Security Room North side-1, Entrance-2	Gate 1	
8	Hanse	HDV-870		6	Entrance-3, Parking-1, Vollyball Ground-1, Security Room-1	Gate 2	
9	MaxEye	MI-5004	2015A85606349	2	Girls Hostel Gate-2	Girls Hostel	Girls Hostel
10	Hanse	HDV-870		3	New Girls Hostel Boundary Wall -2, Front View of New Girls Hostel	New Girls Hostel Warden Quarter	Girls Hostel
11	MaxEye	AHD3304TLM	201710140001	4	Boys Hostel Gate-1, Hostel A-1,Hostel B-2, Mess Entrance	Hostel superintendent Room	Boys Hostel

  
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# B K Birla Institute of Engineering & Technology

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Website : www.bkbiel.ac.in

## CCTV Report As On Date 05/07/2023

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14	MaxEye	MI-5004	2015A85606350	03	Boys Mess Hall 3 D block-2, Sports Room-1	Hostel superinten dent Room D Block	Boys Hostel	18 day Backup
15	MaxEye	MI-5004	2015A85606352	04	Halls-2, Entrance-1, Stair case-1	Sports Complex	Sports Complex	18 day Backup
16	Enter	ESD 402	1307048382	04	Outside Canteen	Canteen	Canteen	18 day Backup
17	MaxEye	MI-5004	2015A85606352	03	E Block Passage-2, E block Entrance-1	E Block passage I Floor	E Block	18 day Backup
18	MaxEye	MI-5004	2015A85606352	03	Staff canteen Area-1, Front & Back E Block Ground Floor	E Block Faculty Room Ground Floor	E Block	18 day Backup
19		2004D		04	Hall1-1,Hall2-2,Entrance- 1,Staircase-1	BPTRC Faculty Room Ground Floor	BPTRC Block	18 day Backup
20	MaxEye	AHD- 3304TLM	201710140001	04	Computer Lab-1,BIC Lab- 1, Electrical Moter& PLC- 1, Staircase II Floor-1	BIC LAB Store Room	BPTRC Block	18 day Backup
21	MaxEye	AHD33 04TLM	201710140001	04	Entrance C Block- 1,Entrance D Block-1, Computer Lab Ground Floor-1, Passage North side-1	PA Office Room D Block	D Block	18 day Backup
22	MaxEye	AHD33 04TLM	20173300001	04	Physics Lab-1, Computer Lab II floor-1, Passage I Floor-1, Passage II Floor-1	Physics Lab C Block	C Block	18 day Backup
23	Hikvision	SMP		08	Hostel	D Block	Hostel	1 month Backup
24	CP Plus	SMP		12	Admin Block, Director Office, Library	Admin Block	Admin block	18 days Backup

  
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3	Turbo C++	S/W	1
4	MSDN AA( Three Year FPP Subscription)	S/W	1
5	Win SL 8.1 SNGL OLP NL Acdmc Legalization	S/W	110
6	WinSvrStd 2012R2 SNGL OLP NL Acdmc 2 Pro	S/W	1
7	DsktpEdu ALNG LicSAPK OLV E 1 Y Academic En	S/W	110
7	Win SL 8.1 SNGL OLP NL Acdmc Legalization	S/W	100
8	MSDN AA Dream Spark ( Three Year FPP Subscription)	S/W	2
9	DsktpEdu ALNG LicSAPK OLV E 1 Y Academic En	S/W	110
10	Win SL 8.1 SNGL OLP NL Acdmc Legalization	S/W	100
11	DsktpEdu ALNG LicSAPK OLV E 1 Y Academic En	S/W	110
12	O365ProPlusOpenFaculty ShrdSvr ALNG Sub	S/W	110
	IntuneOpen ShrdSvr ALNG Sub VL OLVE 1M	S/W	110
	WinsvrCAL ALNG LicSAPK OLV 1Y Acdmc E	S/W	110
	WinEDUE3 ALNG UpgrdSAPK OLV E 1Y Acdmc	S/W	110
13	O365ProPlusOpenFaculty ShrdSvr ALNG Sub	S/W	110
14	IntuneOpen ShrdSvr ALNG Sub VL OLVE 1M	S/W	110
	WinsvrCAL ALNG LicSAPK OLV 1Y Acdmc E	S/W	110
	WinEDUE3 ALNG UpgrdSAPK OLV E 1Y Acdmc	S/W	110

**List of Software's in Lab**



**Programming Lab – I**

  
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**Programming Lab – II**



**DSP/ VLSI Lab**



**Figure6.3.1e2: DSP/ VLSI Lab**




**Advanced DBMS Lab**



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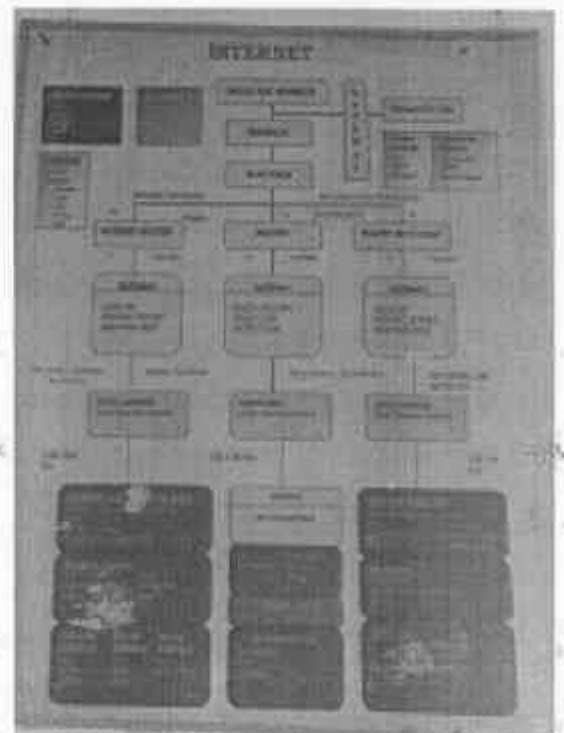


**Web Designing Lab**

  
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**Advanced Design Lab**





**(B) Birla Professional Training & Research Center Laboratory Details**

**Project laboratory:**

BKBIET has allocated a dedicated building named 'Birla Professional Training & Research Center' for research and development activity.

**Research Laboratories**

1. **BIC Lab-** The lab is equipped with internet and IoT facilities (Arduino, Raspberry Pi, Microcontroller, solar panels, drone kits, basic board and all type of sensor) for the student for making their project with creative ideas.
2. **Computer Lab-** The lab is equipped with 37 computer with internet facilities for coding & designing, website development, windows and mobile application development to train the student and make them ready for placement purpose.

**Area of research Laboratories**

BK Birla Institute of Engineering & Technology, Pilani (Rajasthan)				
COMPUTER SCIENCE ENGINEERING DEPARTMENT				
AREA of Research LAB				
S. No	Name	Utilized for Course	Weekly utilization status	Total area of Lab
1.	BIC Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	18	1260 Sq. <sup>2</sup> OR 117.10m <sup>2</sup>
2.	Computer Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	18	1260 Sq. <sup>2</sup> OR 117.10m <sup>2</sup>

**Facilities created in CSE department for projects**

S.No.	Name of the Facilities	Utilization
1.	Turbo C 3.0, Dev C++, Code-Blocks	1st semester – Computer Programming Lab in C 3rd Semester- Data Structure and Algorithm, C++ Programming.
2.	Ubuntu	8th semester students and Faculty members.
3.	Java SE Development Kit, NetBeans, Code-Blocks	5th, 6th & 8th semester students and Faculty members.



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4.	8085 Simulator	4th semester students
5.	Argo UML	5th semester students
6.	Python	5th , 6th , 7th and 8th semester students and Faculty
7.	Android Studio	6th & 8th semester students and Faculty members
8.	Microsoft Office professional	Students and Faculty
9.	Visual Studio & SQL Server	7th and 8th semester students and Faculty
10.	My Sql, Xamp (PHP)	4th ,5th , 6th , 7th and 8th semester students and Faculty
11.	OPEN Source Software	Students and Faculty
12.	Internet of 100Mbps and Wi-Fi campus	3rd Semester, UG Students and Faculty members utilize the internet and Wi-Fi
13.	One 10KVA, One 5 KVA and two 1KVA UPS	Used in case of Power failure in Project Lab, Server, Exam and TPO Room
14.	Air-conditioner	Maintained temperature in Server Room
15.	PRINTERS (Color and B/W)	Printing documents, Report, Assignments etc.
16.	Projector & Scanner	Students to organizing and Faculty members to demonstration, Expert lecture, PPT
17.	Server	ERP Server, Antivirus server, Account Server,

**Tools and Components List for E-cell, BIC**

S. No	Tools and Components	Quantity
1	Basic AVR Development Board	1
2	Advance AVR Development Board	1
3	AVR Development Board	1
4	Basic 8051 Development board	1
5	PIC Development Board	1
6	ASLK PRO Development kit	1
7	Universal Programmer kit	1
8	PIC Kit 3 Programmer	2
9	Dev. Board based on Arduino NANO	2
10	Solar Panel - 1w	2
11	Solar Panel -2w	2

  
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12	Solar Panel -10w	2
13	solar Panel - 100 w	1
13	Rechargeable solar battery- 12 V/7AH	2
14	Rechargeable solar battery- 12 V/75 Ah	1
15	Accelerometer 3 Axis	2
16	Magnetometer sensor	2
17	Gyroscope	2
18	RF module 433 MHz	5
19	HT 12D/ 12E	5
19	RF circuit 24L01	5
20	GPS Modem	2
21	GSM Modem SIM 900	2
22	RFID reader + Tag	2
23	HDMI to HDMI Cable	5
24	HDMI to VGA cable with VGA cable	2
25	VGA to HDMI Converter	5
26	Micro USB cable for Rasperry pi	5
27	Rasperry Pi3, B+	2
28	Pi Case	2
29	Supply for Pi3	2
30	16GB SD card for Pi3	2
31	7" Touch for Pi3	1
32	Pi Camera, 5MP	2
33	Uno R3 Board	20
34	Mega Board	3

  
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35	Dew Board	3
36	Nano Board	20
37	Lilypad	5
38	Ethernet shield for Arduino	2
39	Camera module for Arduino	2
40	Capacitive touch for Arduino	2
41	Wi fi ESP 8266 module	2
42	Zigbee S2C	2
43	Zigbee base USB	2
44	Neurosky mindwave mobile headset	1
45	Stepper Motor mini with ULN 20003 driver	2
46	Stepper motor NIMA 17	2
47	Stepper motor big for CNC	2
48	L293 Motor Driver	20
49	L 298 Motor Driver	20
50	A 4988 Stepper motor Driver	10
51	DRV 8825 Stepper motor Driver	10
52	Servo Motor 9gm, SG-90	5
53	Servo Motor metal Gear, MG-90	5
54	Servo Motor Plastic Gear, V-3003	2
55	Servo Motor Metal Gear , MG-995	2
56	PIR Sensor	5
57	Ultrasonic Sensor	5
58	IR Module	5
59	IR Array (4 IR)	2



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60	LDR Sensor	5
61	Sound Sensor	5
62	Bluetooth HC-05	5
63	Node MCU	2
64	4*4 Keypad	3
65	Temperature Sensor DS1820	5
66	Temp Cum Humidity Sensor module DHT-22	5
67	Voice Recording Module	3
68	Buzzer Module	5
69	ESP 32 wifi	5
70	Soil Moisture Sensor	5
71	Rain Drop Sensor	5
72	MQ-2 sensor	2
73	MQ-6 sensor	2
74	MQ-7 sensor	2
75	MQ-135 gas sensor	5
76	Joystick Module	2
77	Ramps 1.4 Shield	2
78	CNC Shield	2
79	16*2 LCD shield with I2C	5
80	Motor Driver Shield	5
81	Self-Adhesive proto Shield	2
82	Voltage Sensor	5
83	Current Sensor	5
84	Pulse /Heart beat Sensor	5

  
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85	Turbidity Sensor (Water Quality)	2
86	Proximity Sensor	2
87	8*8 LED Matrix Module	2
88	Water Pump DC	2
89	Color Recognition Module	2
90	Flex Sensor	2
91	Force Sensor	2
92	Metal sensor	2
93	4 Digit LED Display Module	2
94	RTC Module,	2
95	Peltier module,	2
96	Dc to DC convertor (step up)	5
97	Dc to DC convertor (step down)	5
98	OLED Module	2
99	Biometric Pressure sensor BMP-280	2
100	Finger Print sensor	2
101	Bread Board 400 Tie Point	20
102	Bread Board supply	2
103	Relay Board 1 Channel	5
104	Relay Board 2 Channel	5
105	Relay Board 4 Channel	5
106	Relay Board 8 Channel	5
107	Relay 5v	20
108	Relay 12v	20
109	Transformer 12v/1A	20

  
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110	Jumper Cable: M-M	100
111	Jumper Cable: M-F	100
112	Jumper Cable: F-F	100
113	4 Pin R/M Connector M/F	20
114	8 Pin R/M Connector M/F	20
115	GPCB 4*6	50
116	CPCB 4*6	50
117	GPCB 2*3	50
118	40 Pin Base	50
119	Berg Strip Male	50
120	Berg Strip Female	50
121	Capacitor 1000/35v	100
122	Capacitor 0.1 uf, 1 nf, 22pf	100
123	disc capacitor box	5
124	Resistors ¼ watt (30 Values * 100each)	3000
125	LED 5mm: Red, Green, Yellow, Blue and White	250
126	LED 3mm: Red, Green, Yellow, Blue and White	250
127	RGB Led	50
128	<b>Transistor-BC 557</b>	100
129	BC 107	100
130	SL-100	100
131	Sk-100	100
132	2N2222	100
133	BF-494	20
134	Mosfet IRF 540	20



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135	Mosfet IRF Z44	20
136	IC Base: 8 pin	100
137	14 pin	100
138	16 pin	100
139	18pin	100
140	20 pin	100
141	28 Pin	100
142	IC LM741	50
143	LM358	100
144	LM324	100
145	IC 89S52	20
146	IC 555	100
147	IC 358	100
148	7812	50
149	7805	50
150	IN 4007	200
151	Diode 6A4	50
152	Diode IN 5408	100
153	IC Opto PC 817	50
154	SCR TYN 612	20
155	IRFP 250	10
156	DIAC DB-3	50
157	IGBT 25 N 120	5
158	BT-136	50
159	Micro Switch	50



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160	Slide Switch On/OFF	50
161	Toggle Switch ON/OFF, Panel type	50
162	ON/OFF switch PCB Type	50
163	Crystal 11.0592 Mhz	50
163	Preset ( 6 values * 20ch)	3
	Quadeopter Material (1 set)	1
164	BLDC Motor-4 ESC -4 Propeller -4 FCB KK 2.1.5-1 LIPO 2200mh-1 Balance Charger 6BAC-1 Frame-1 6 Channel Remote-1	
165	<b>Drone DIY kit</b>	1
166	Table Top PCB Drill -Portable	1
167	Hand Drill for PCB	2
168	Hand Drill up to 10mm	1
169	Hammer 200gm	2
170	Soldering iron 25 watt- soldron	5
171	Iron Stand	5
172	Desoldering Pump	5
173	Desoldering wire	5
174	Soldering wire (2 kg)	2
175	Glue Gun 60 watt	2

  
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176	Glue stick	50
177	<b>Soldering Iron kit (1 set)</b>	1
	Adjustable temperature welding iron.	
	5 pcs tips	
	Desoldering Pump	
	2 Pcs tweezers	
	6 Pcs aid tools	
178	Connecting wire 1/23	5
179	Multistrand wire 7/36	5
180	Wire 2 pin main lead	20
181	Combination plier 8" taparia	5
182	Nose Plier 6' Taparia	5
183	Wire Stripper & Cutter Taparia	5
184	Screw Driver Set taparia	5
185	Double ended spanner set taparia	2
186	Taparia 1001 universal set	1
187	PVC Tape	20
188	Tweezer set	5
189	BO Motor with Tyre	6
190	Chasis for BO motor	6
191	Nut bolt set for BO	6
192	DC geared moter	5
193	Chasis for Geared motor	5
194	Tyre 1"	6
195	Tyre 2"	6



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196	Wireless keyboard & Mouse plus touch pad	1
197	Extension 6 way, 3mt	5
198	Batter 9v with Snapper	20
199	Battery 12v/1.3 A	5
200	SMPS 9v & 12v / 1A	7
201	DC Regulated Power supply (0-30V/ 2A) Sciencetech Model 4075	1
202	Digital multimeter with LCR	2
203	Analog multimeter	2
204	DSO 70 MHz, 2 channel, TBS1072B	1
205	DSO 60 MHz, 4 channel, TBS1064B	1

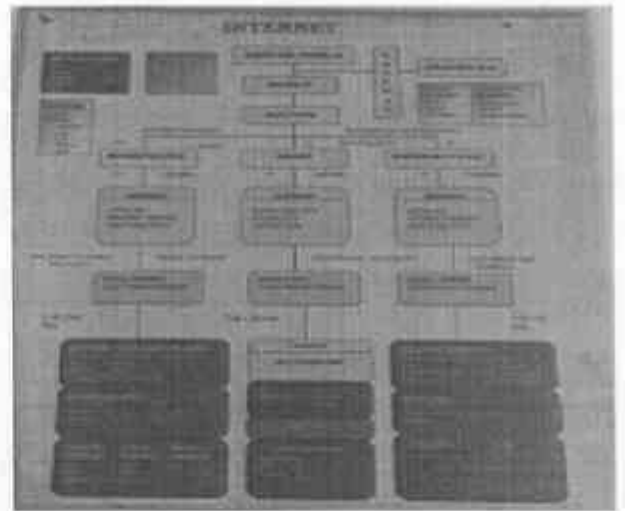
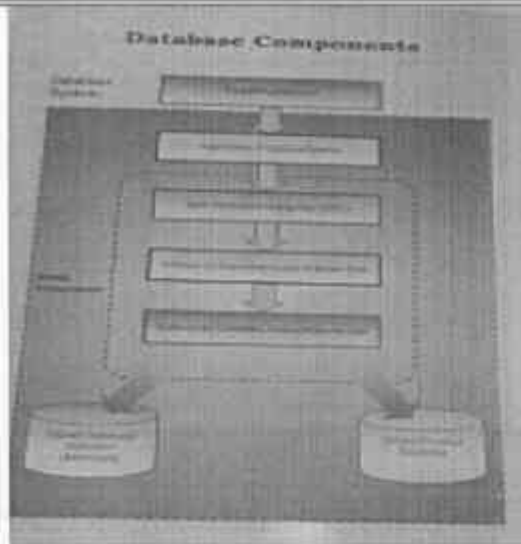


**PROJECT LAB**



**IOT LAB**





### **BKBIET MANUFACTURING DETAILS**

Our students widely tell that one of the best things about studying at BKBIET is the on-campus experience. Our focus on residential living has helped build a vibrant and diverse community, where you can find like-minded peers and make lifelong friends.

The 7.86 lakh square feet sprawling campus allows you to explore different ideas and ways of learning. It has modern classrooms, fully-equipped laboratories, expansive libraries, Cultural & Creativity Centre, Professional Training & Research Centre, auditoriums, extensive indoor & outdoor sports facilities, gymnasium and Medical Centre.





**Listing of Manufacturing**

**Laboratories**

We offer state-of-art and hi-tech engineering laboratories where you can experiment and practise what you have learnt in theory.

- Electrical Lab
- DC Machine Lab
- AC Machine Lab
- Digital Electronics Lab
- DSP Lab
- Engineering Physics Lab
- Engineering Chemistry Lab
- Mechatronics Lab
- Thermal Engineering Lab
- Computer Lab
- Power Electronics
- Electric Drives Lab
- Power System Lab
- Analog & Digital Communication Lab
- Microprocessor/Microcontroller Lab
- Microwave Lab/Wireless Communication Lab
- Instrumentation & Measurement Lab
- Fluid Mechanics & Machinery Lab
- Measurement & Metrological Lab
- Material Science & Testing Lab
- EDC Lab/Analog Electronics/LIC Lab
- Advance Power Electronics / Industrial Electronics Lab

**Other Lab Details**

B K Birla Institute of Engineering & Technology -PILANI			
Electrical, Electronics, Mechanical, Physics & Chemistry Lab			
AREA of LABS			
S. No	Name	Utilized for Course	Total area of Lab
1.	AC MACHINE LAB	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	75 Sq. Meter (m <sup>2</sup> )
2.	D.C.MACHINE	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	75 Sq. Meter (m <sup>2</sup> )
3.	POWER SYSTEM LAB	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and	75 Sq. Meter (m <sup>2</sup> )



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		8 <sup>th</sup> semester students	
4.	Basic Electrical Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	138 Sq. Meter (m <sup>2</sup> )
5.	Power Electronics Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	75 Sq. Meter (m <sup>2</sup> )
6.	Electrical Drives Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	138 Sq. Meter (m <sup>2</sup> )
7.	Electrical Demonstration Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	170 Sq. Meter (m <sup>2</sup> )
8.	PLC Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	170 Sq. Meter (m <sup>2</sup> )
9.	Electrical Practical Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	170 Sq. Meter (m <sup>2</sup> )
10.	Digital Electronics Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	138 Sq. Meter (m <sup>2</sup> )
11.	Analog & Digital Communication Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	75 Sq. Meter (m <sup>2</sup> )
12.	Microprocessor/Microcontroller Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	75 Sq. Meter (m <sup>2</sup> )
13.	Microwave Lab /Wireless Communication Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	138 Sq. Meter (m <sup>2</sup> )
14.	EDC Lab/Analog Electronics/LIC Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	75 Sq. Meter (m <sup>2</sup> )
15.	Engineering Chemistry Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	37 Sq. Meter (m <sup>2</sup> )
16.	Engineering Physics Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	138 Sq. Meter (m <sup>2</sup> )
17.	Instrumentation & Measurement Lab	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	138 Sq. Meter (m <sup>2</sup> )
18.	Work Shop	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	211 Sq. Meter (m <sup>2</sup> )
19.	Mechanical Labs	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester students	172 Sq. Meter (m <sup>2</sup> )

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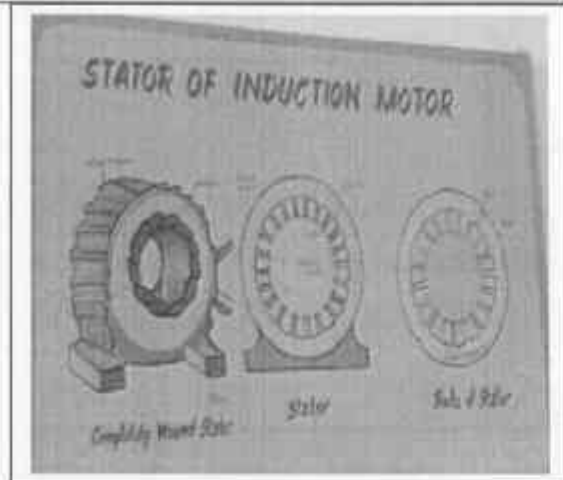
20. DRAWING HALL	1 <sup>st</sup> , 2 <sup>nd</sup> , semester students	209 Sq. Meter (m <sup>2</sup> )
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**TOOLS AND COMPONENTS LIST FOR RESPECTIVE DEPARTMENTS LABS**

**AC MACHINE LAB**

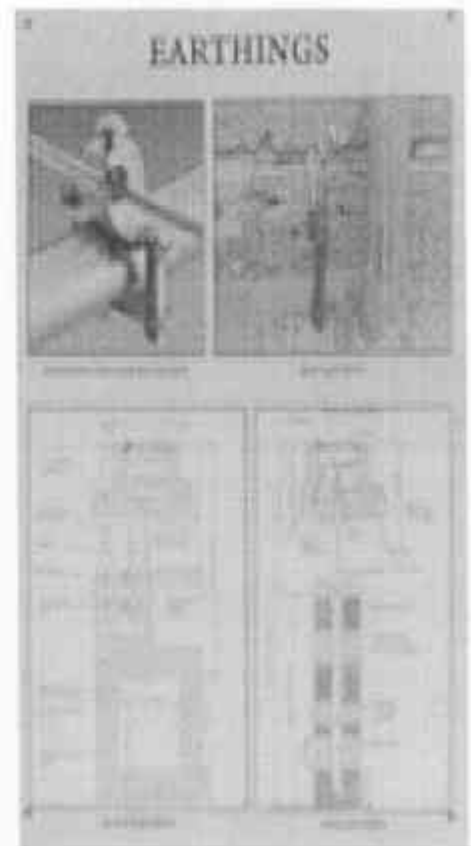
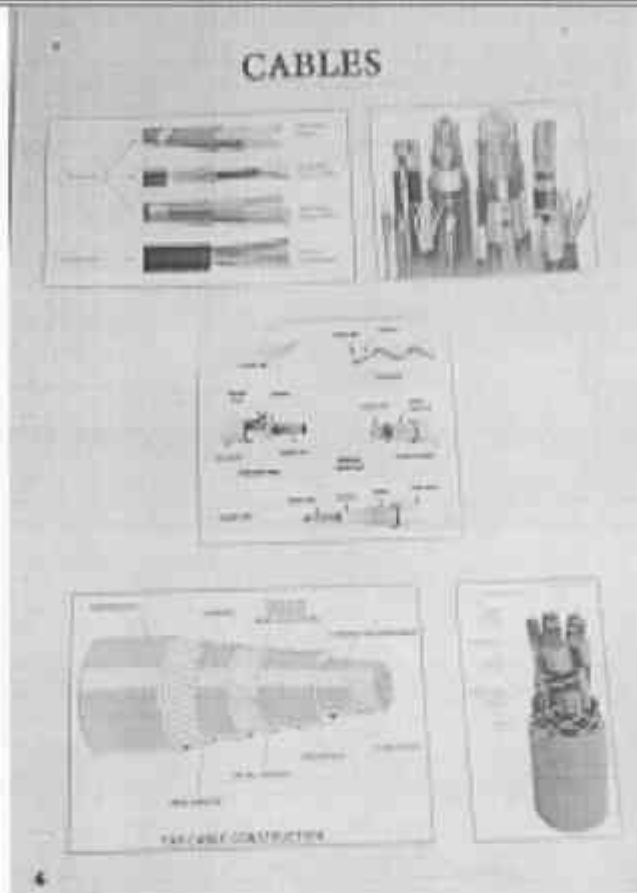
S. No	Tool & Component	Quantity
1.	Separation of 3 Ph Transformer Ironless by variable frequency source Complete setup	1
2.	Load Test & Short circuit test one 3 phase alternator	1
3.	V curve pf synchronous motor at a NO, Half & full load Complete Set	1
4.	Sumpner's back to back test 3 phase transformer	1
5.	The haet Run test one a 3 phase transformer	1
6.	No Load & Blocked rotter test on 3 phase induction moter	1
7.	Losses & Efficiency of altimeter	1
8.	Direct axis and Quadrature Axis Re-chance of Synchronous Machine	1





### DC MACHINE LAB

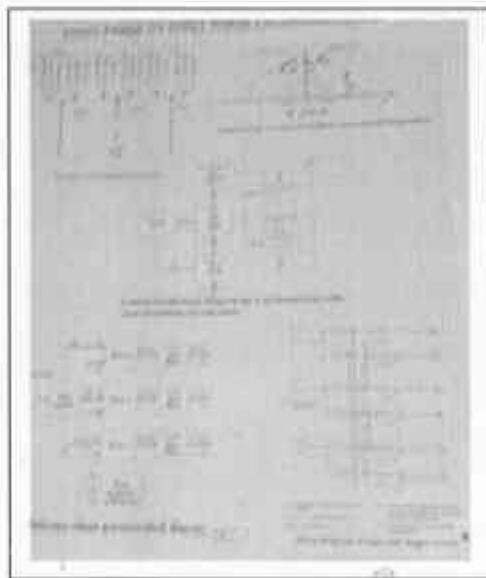
S. No	Tool & Component	Quantity
1.	Speed Control of DC motor by armature Field Control Complete Set Up	1
2.	Speed Control of DC motor Ward Leonard Method Complete Set Up	1
3.	Efficiency of Dc Motor by Hopkin Test Complete Set Up	1
4.	OC & SC Test on 1PH transformer Complete Set Up	1
5.	1PH transformer Sumpner's back to back test Complete Set Up	1
6.	Parallel operation of 1PH transformer Complete Set Up	1
7.	Polarity, Rotation & Load Test 1PH transformer Complete Set Up	1
8.	OC & SC Test on 3PH transformer Complete Set Up Complete Set Up	1
9.	Parallel operation of 2PH transformer Complete Set Up	1
10.	Efficiency of Dc Shunt Motor Complete Set Up	1





**BASIC ELECTRICAL LAB**

S. No	Tool & Component	Quantity
1.	Induction Motor 1 Phases	1
2.	Induction Motor 3 Phases	1
3.	Cut Section Type Transformer 1 Phases	1
4.	Cut Section Type Transformer 3 Phases	1
5.	Electrical Accessories Board	1
6.	Electrical wiring Board	1
7.	Single Phase Motor Part Fitted on Board	1
8.	Mercury & Sodium Vaporlam Board	1
9.	Electrical Wiring Board	1



**POWER ELECTRONICS LIST**

S. No	Tool & Component	Quantity
1.	Four Quadrant Chopper Motor Controller Kit	1



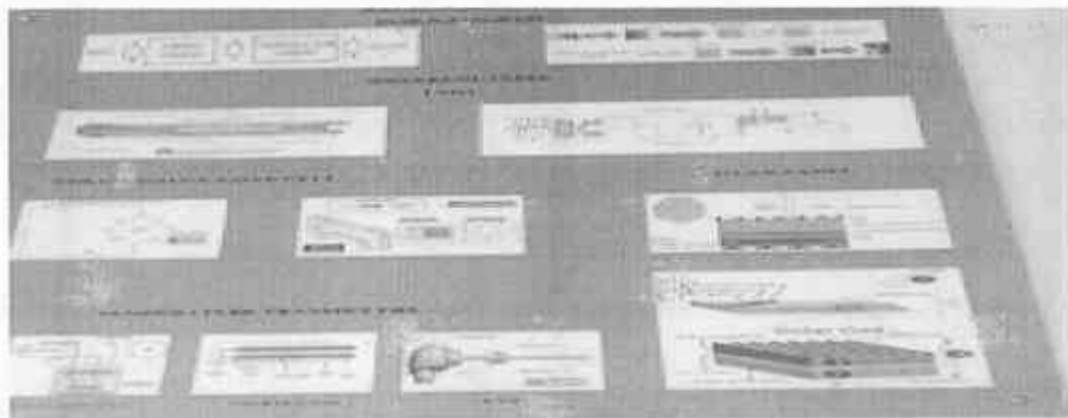
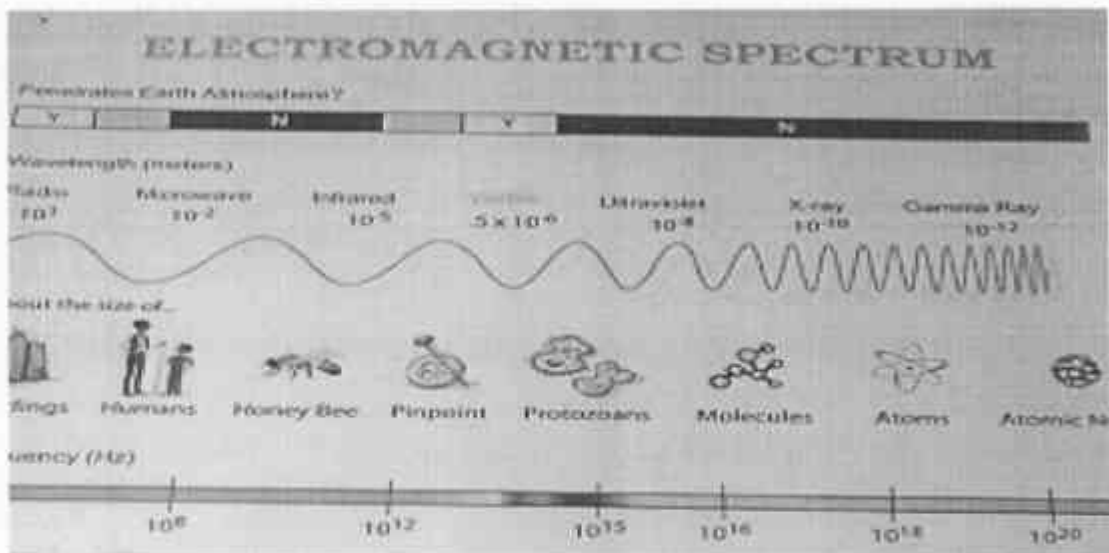
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2.	Chopper Circuit using power mosfet IGBT	1
3.	Current Commutated thyristersised chopper kit	1
4.	Study of backup principle kit	1
5.	1-Quadrant controlled symmetrical & Asymmetrical bridge kit	1
6.	AC Regulator using TRIAC , Antiparallel thyistor kit	1
7.	Voltage Cumulated Chopper ki	1
8.	Single Phase PWM Inverter Kit	1
9.	Study of zero voltage switching kit	1
10.	DC Drive trainer ki	1
11.	1-o Cycloconverter kit	1
12.	DC Circuit Kit	1
13.	Stepper Motor	2
14.	Auto Transformer	1
15.	D.S.O	6
16.	Digital Multimeters	11
17.	BB Trainer with supply	2
18.	Component organizer	2
19.	Soldering Iron Stand	
20.	Digital Solder Satiation Metro	2
21.	1 – Half & fully Controller bridge	2
22.	3-o Uncontrolled Rectifier Kit	2
23.	SCR, DIAC, MOSFET, TGBT Characteristic kit	2
24.	SCR Firing Kit	2
25.	. 1-o Half Controlled converter Kit	1
26.	. 1-o Fully Controlled converter Kit	1





27.	Digital Techo Meter	2
28.	I-O Voltage controller	1
29.	Digital Clamp Meter	1
30..	PC (Computer)	6





### ELECTRIC DRIVE LAB

S. No	Tool & Component	Quantity
1.	3- $\phi$ Induction Motor Controller	1
2.	3- $\phi$ Ac Voltage Regulator	1
3.	3- $\phi$ Half Controlled Convertor	1
4.	3- $\phi$ Fully Controlled Convertor	1
5.	3- $\phi$ Dual Convertor	1
6.	3- $\phi$ Cyclo Convertor	1

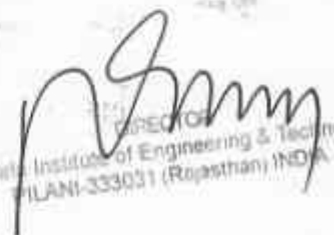
### DIGITAL ELECTRONICS LAB

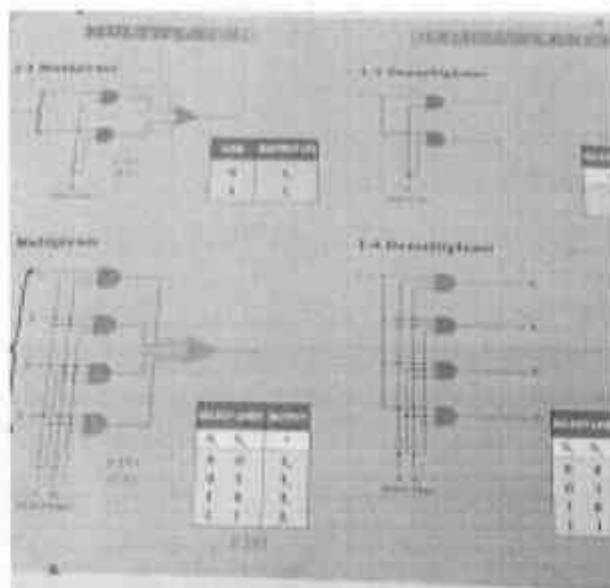
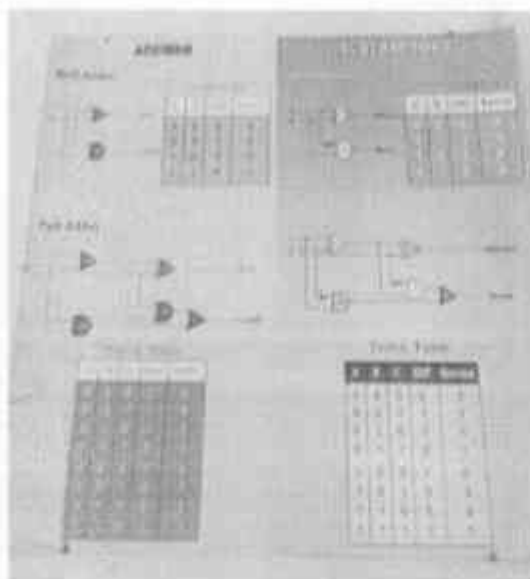
S. No	Tool & Component	Quantity
1.	Bi-stable Multi vibrator Kit	1
2.	8 Line to 1 Line Multiplexer & De Multiplexer Kit	1
3.	Basic Logic Gates Kit	1
4.	Shift Register ( SISO-SIPO-PISO-PIPO) Kit	1
5.	Verification of De-Morgan's Theorem Kit	1
6.	R.S.T.D & J K Flip Flop Kit	1
7.	555 Timer Amplifier Kit	1
8.	Digital Trainer E.T.D.T (EXCEL) Kit	15
9.	ET-UICT Universal IC Tester Kit	1
10.	TTL-CMOS TTL Interface Kit	1
11.	A-stable Multi vibrator Kit	1
12.	Digital IC demonstrator Kit	4
13.	Op-AMP VTIO ,ITOV Convertor Kit	1



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14.	Schmitt trigger Kit	1
15.	4 bit synchronous binary counter Kit	1
16.	4 Bit decode counter Kit	1
17.	2D, 8 bit Up Down Counter Kit	1
18.	8 bit ADC (2 Method) Kit	1
19.	8 bit DAC (2 Method) Kit	1
20.	Binary to decimal encoder Kit	Omega 1
21.	Difference ion Comparator using 110 Kit	Omega 1
22.	CRO, 25 MHz kit	2
23.	CMOS IC Characteristic Kit	1
24.	Digital Trainer E.T.D.T (EXCEL) Kit (NEW)	10
25.	Universal Logic Gate Kit (XELTRON) Kit	4
26.	Bread Board Trainer (XELTRON) Kit	4
27.	Bread Board Trainer (XELTRON) kit	4
28.	Component Organizer	3
29.	Iron Stand	1
30.	Dual Power Supply	1
31.	Digital Multi-meter Scienteeh	1

  
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#### ANALOG & DIGITAL COMMUNICATION LAB

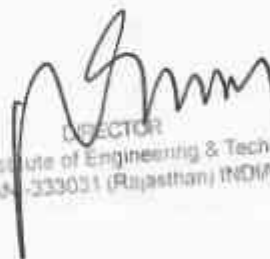
S. No	Tool & Component	Quantity
1.	AM Modulation and Demodulation Kit	2
2.	FM Modulation and Demodulation Kit	2
3.	PAM Modulation and Demodulation Kit	2
4.	PWM Modulation and Demodulation Kit	2
5.	PPM Modulation and Demodulation Kit	2
6.	PCM Modulation and Demodulation Kit	2
7.	FSK Modulation and Demodulation Kit	1
8.	ASK Modulation and Demodulation Kit	2
9.	Transmission line trainer kit	1
10.	FM Transmitter kit	1
11.	FM receiver Kit	1
12.	AM Transmitter kit	1



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13.	AM receiver Kit	1
14.	Fourier Synthesis kit	1
15.	Analog Sampling Kit	2
16.	EPABX Trainer kit	1
17.	Telephone Trainer kit	1
18.	BPSK/DPSK Modulation Kit	1
19.	TDM –PAM Modulation and Demodulation Kit	1
20.	TDM –PCM Transmitter kit	1
21.	TDM –PCM receiver Kit	1
22.	Data Conditioning Transmitter kit	1
23.	Data Conditioning receiver Kit	1
24.	Delta/ Sigma Modulation and Demodulation Kit	1
25.	AGC Characteristic Kit	1
26.	Binary Data Generator kit	1
27.	CRO 20 mhz	5
28.	CRO 30 mhz	2
29.	DSO	2
30.	Function Generator	1
31.	Soldering Station	2
32.	QPSK/DPSK Modulation and Demodulation Kit	1
33.	QPSK/DPSK Demodulation Kit	1
34.	MSK Modulation and Demodulation Kit	1
35.	PCM, DPCM, CVSD Modulation and Demodulation Kit	1
36.	Component Organizer	2
37.	General Purpose bread Board Trainer	4




  
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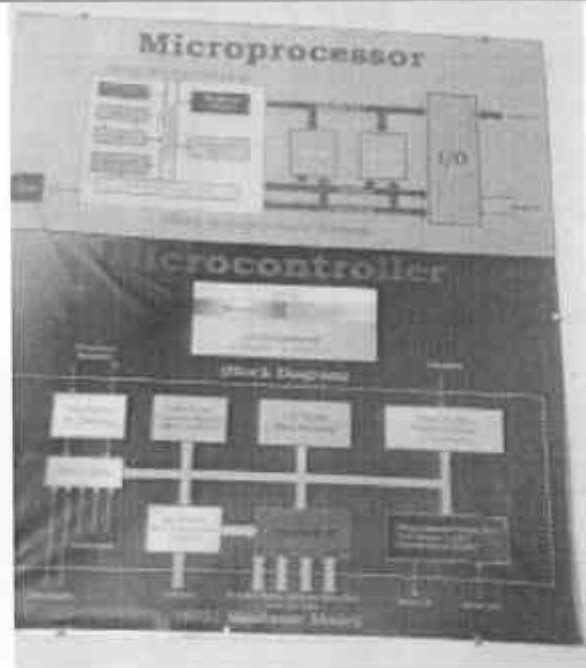
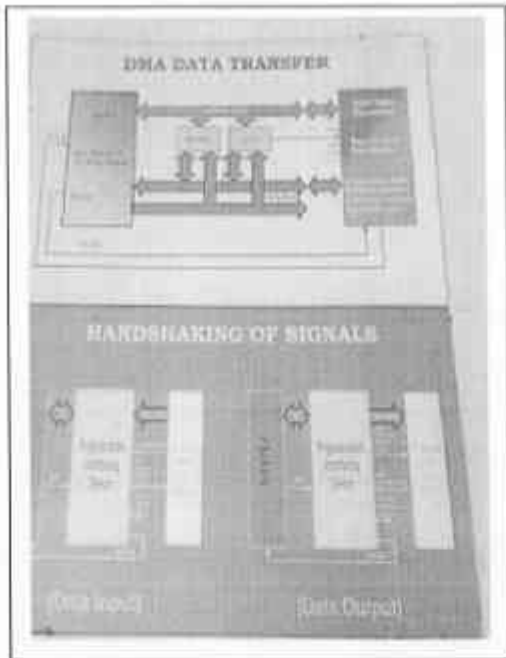


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**MICROPROCESSOR/MICROCONTROLLER LAB**

S. No	Tool & Component	Quantity
1.	Basic 8085 kit with supply	15
2.	Basic 8085 kit with LCD Display	2
3.	8051 Microcontroller kit	5
4.	8085 Trainer Kit	1
5.	Study Cards -7 eg display	1
6.	Study Cards -ADC	1
7.	Study Cards- Elevator Simulator	1
8.	Study Cards-8279	1
9.	Study Cards-8257	1
10.	Study Cards-8155	1
11.	Study Cards-8255	1
12.	Study Cards- DAC	1
13.	Study Cards-8253	1
14.	8086 LCD Display Kit	1
15.	8051 Project Development Kit	1

  
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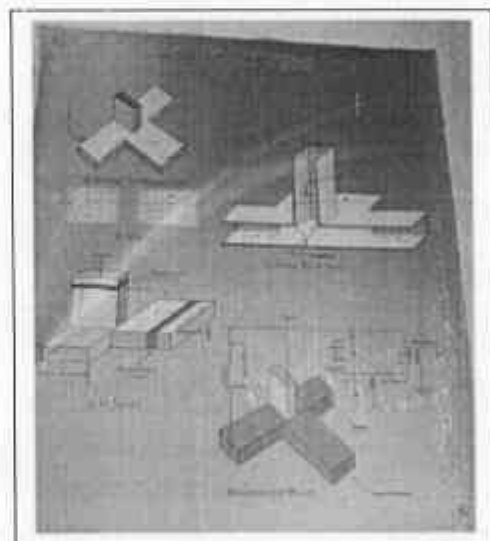
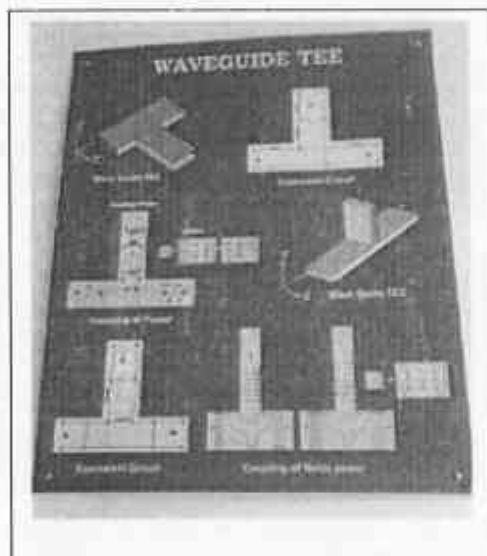
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**MICROWAVE Lab/Wireless Communication Lab**

SL. No	Name of the Kit/ Component	Nos
1.	Microwave Test Bench with reflex klystron	3
2.	Microwave Test Bench with Gunn Diode	3
3.	Oscilloscope	2
4.	VSWR Meter	6



**EDC LAB/ANALOG ELECTRONICS/LIC LAB**

S. No	Tool & Component	Quantity
1.	Transistor Characteristic Kit	4
2.	Common Collector Amplifier kit	4
3.	Non Linear wave shaping Circuit kit	7
4.	Two stage RC coupled amplifier Kit	6
5.	FET Characteristic Kit	6
6.	Single stage RC coupled Transistor Amplifier Kit	1

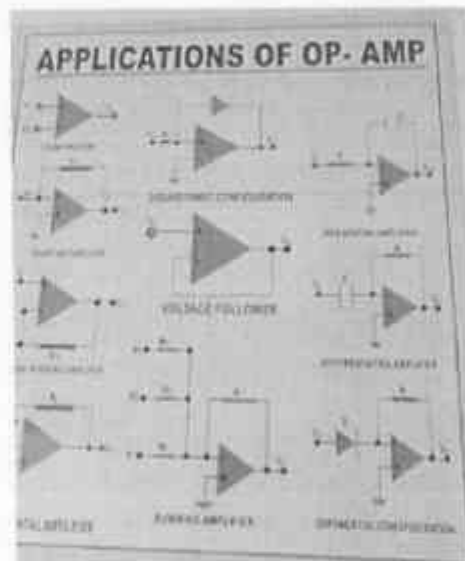
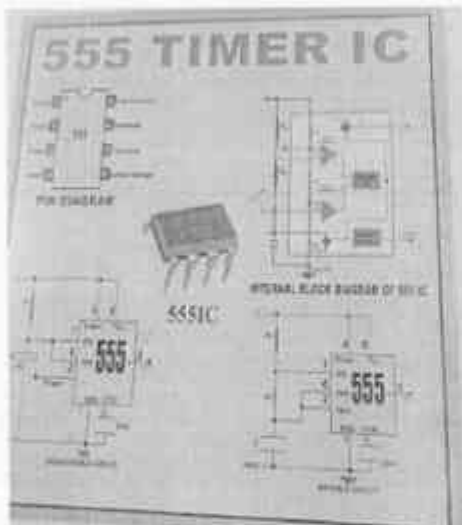


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7.	Zener Diode Characteristic Kit	5
8.	P-N Junction Characteristic Kit	5
9.	Transistor – Parameter Kit	2
10.	Rectifier and filter Kit	5
11.	Mono Stage Multi vibrator Kit	1
12.	MOSFET Characteristic Kit	1
13.	Feedback Amplifier kit	3
14.	Constant K Type filter kit	1
15.	Class B Push Amplifier Kit	2
16.	Series and shunt voltage Kit	2
17.	UJT Characteristic & Relation Kit	2
18.	RC Phase Shift Oscillator Kit	2
19.	Wires Bridge Oscillator Kit	2
20.	Hartley Oscillator Kit	2
21.	Colpits Oscillator Kit	2
22.	Op AMP Trainer Kit	1
23.	Op AMP Characteristic Kit	1
24.	Universal Op-AMP Trainer Kit	3
25.	CRO DSO	21
26.	Digital Function Generator	16
27.	Bread Board /Power Project Board	28
28.	Digital Analog MultiMeter	36
29.	Voltmeter DC	34
30.	Micro Multimeter DC	34
31.	Component Organizer	2



32.	Digital Clamp Meter	3
33.	Soldering Iron/ Pump Stand	21
34.	Voltage stabilizer	2
35.	Cutter Strippers	8
36.	Screw Driver set	2
37.	Atten Kit set & Other Tools	5

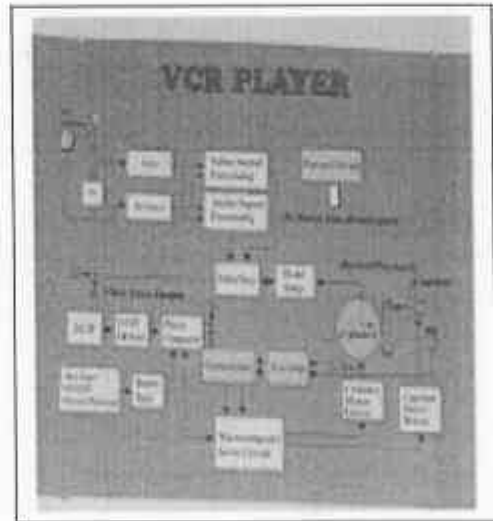
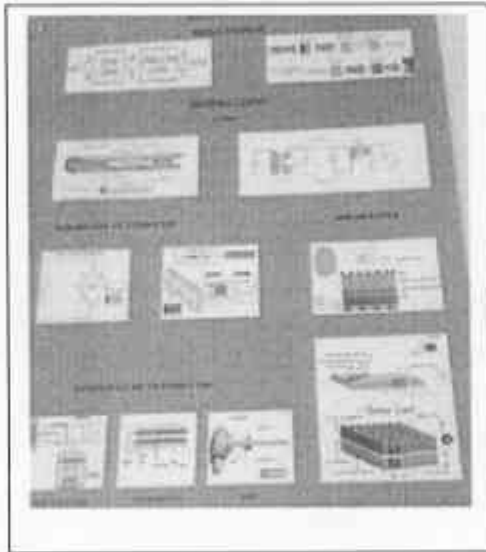


  
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**POWER SYSTEM LAB**

S. No.	Tool & Component	Quantity
1.	C T Testing by silsbees Method kit	1
2.	IDTM over current Relay Kit	1
3.	Buchhatz Relay Kit	1
4.	Percentage differential Relay static type	1



**PCB LAB**

S. No.	Tool & Component	Quantity
1.	Proto Contact PCB artwork marker kit	1
2.	Proto curve -2 PCB (Curving Maker) Over kit	1
3.	Photo reset DIP coating Machine	1
4.	Double side UV exposer unit	1



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5.	Proto Etch Etching Machine kit	1
6.	PCB Drilling Machine Kit	1
7.	PCB sharing Machine Kit	1
8.	Roller Pinning Machine Kit	1
9.	Proto Dye developer Kit	1
10.	PCB Assy Tig Kit	1

**PHYSICS LAB**

S. No	Instruments, Tools & Component	Quantity
1	Spectrometer	5
2	Michelson interferometer Apparatus	3
3	Travelling Microscope	4
4	Resolving Power of a Telescope Apparatus	4
5	Polarimeter Apparatus	3
6	Bridge Type Microscope	2
7	Fresnel's Biprism Apparatus	3
8	Carey Fosters's Bridge	3
9	Meter Bridge	3
10	Sextant Apparatus	2
11	Conversion of G to A Apparatus	4
12	Conversion of G to V Apparatus	3
13	Charging & Discharging of Condenser Apparatus	4



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14	Band Gap of Semiconductor diode Apparatus	5
15	Numerical Aperture of an optical fiber Apparatus	4
16	Multimeter	02
17	Wooden Fixed Condenser (5 $\mu$ F)	01
18	Double Slit	02
19	Diffraction Grating	02
20	Optical Fiber	02
21	Iron Solder Rod	01
22	Solder wire	250 gm
23	Tapping Key	06
24	Morse Key	01
25	Keys (Double)	03
26	Keys (Single)	14
27	Prism	04
28	Stop Watches	02
29	Biprism	01
30	Polarimeter Tubes	05
31	Sprit Level	10
32	Bridge wire Roll of C.F	02
33	Breadboard	06
34	Resistance (10 ohm)	07
35	Battery Charger (2-12 volts/ 3 Amps)	02
36	Battery (2 volts) [chemically charged]	03
37	Battery (6 volts) [lead acid battery] – charge rate (1 Amp)	01
38	Battery eliminator (2 amps)	01

  
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39	Dual Power Supply (ST4075)	02
40	Leclanche cell	02
41	Voltmeter (3v)	04
42	Voltmeter (2v)	02
43	Ammeter (3 Amp)	04
44	Ammeter (2.5 Amp)	01
45	Galvanometer (30-0-30)	05
46	Table Lamp	05
47	Soldering Rod	01
48	IC Regulator battery (3 Amps)	01
49	Spherometer	3
50	iron enclosure, Iron rod and Stand	4
51	Wooden Enclosure	12
52	Sodium Choke	11
53	Mercury Choke	7
54	Plug Type Resistance Box	03
55	Jockey	03

  
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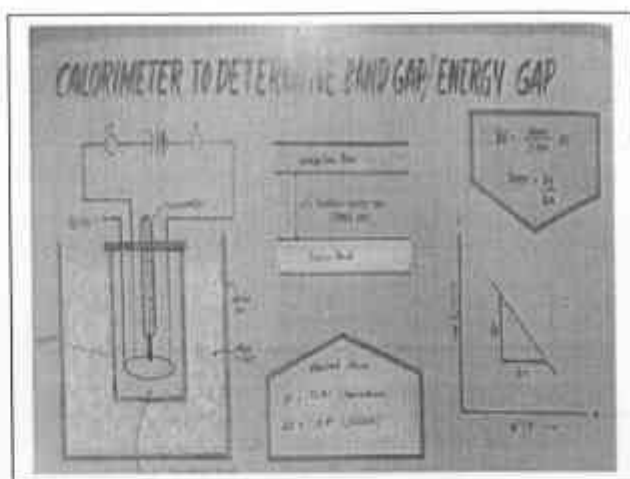
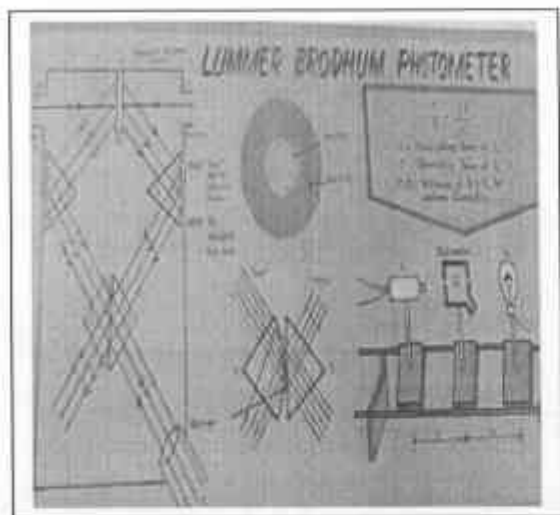
## LIBRARY

We have one Issue Library and two Reference Libraries. Here, the library system is like Integrated Knowledge Resource Centre with adequately-stocked books, periodicals, references, educational CDs/DVDs, national and international journals, covering all aspects of academic studies and research materials. Facility of National Digital Library also available. The Institute has three fully air-conditioned libraries, one is issue- library and two are reference libraries. The library is Wi-Fi enabled. The further details of the all the three libraries are as follows:

Area of Library	7500 sq. ft.
Number of seats in reading space	200 Seats
Number of users (issue book) per day	150
Number of users (reading space) per day	50-60
Timings: During working day, weekend, and Vacation	9AM To 9 PM in Working days 9AM To 5 PM in weekend & during the vacation
Number of library staff	6
Number of library staff with a degree in Library	4
Issue/Return Records Bar Coding used	
Total Number of Volumes	33923
Total Number of Text Books	14657
Total Number of Reference Books	5753
Number of Journals subscriptions (Engineering and Technology)	04
Number of Magazines subscriptions	30





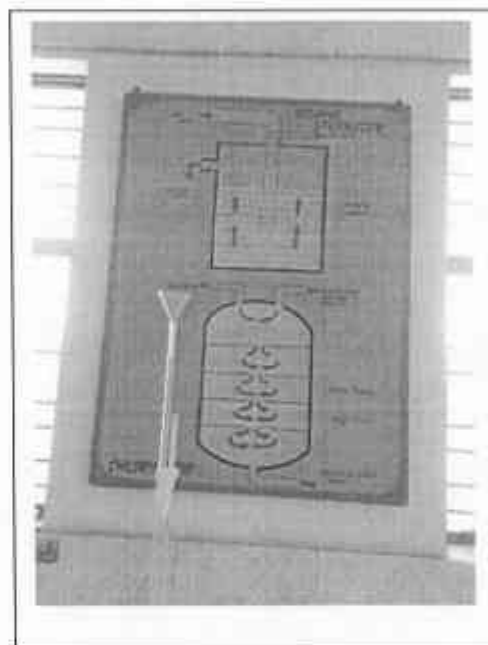
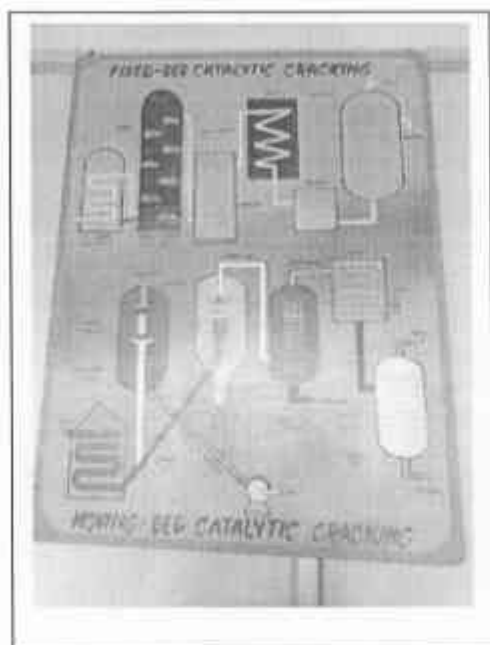


### CHEMISTRY LAB

S. No	Name Of Item	Quantity
1	Digital Flame Photometer	1
2	Meter Turbuty	1
3	Single Pay Balance KM-2	1
4	Analytical Balance K-5	1
5	Hot Plate	1
6	Muffle Furnace	1
7	Redwaved Viscometer	1
8	Flash Point Apparatus ER	1
9	Cloud & Four Point Appratus	1
10	Digital Phase Meter CL-46	2
11	Auto Ranging TDS Meter	2
12	Retort Stand	27
13	Med Oven 14x14x14	1
14	Vacum Pump DS 25lt	1



15	Med Water Bath	1
16	Spirit Lamp	1
17	Stand for Pipette	10
18	Weighting Scale	10



## **BPTRC ELECTRICAL LAB CONTENTS**

(ADVANCE POWER ELECTRONICS / INDUSTRIAL ELECTRONICS LAB)

### **Electric Motor**

- International Standard Terminal Marking for Electrical Motor, Generator and phase
- Different type of Motor and their connection arrangement
- Class of insulation for all type of Electrical Machines
- Degree of Protection
- Name Plate and Its Important Terms and Legend
- AC Motors Standards and Specifications
- Mechanical Details of AC Motors, Types of Mounting
- Frame Size and Power, Transportation Specification

### **Low Voltage Controls Panels**

- Basics with application of Auto-transformer, ELCB, Timer, Commutator function,



Slip rings, bearing technology etc.

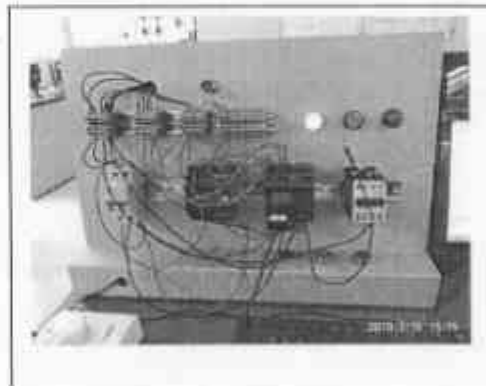
- Designing of Control Circuits using Contactors, Relays and Timers etc.

### Starting Methods of Three Phase Induction Motor

- DOL, Star Delta Starter designing for 3 Phase Induction Motors with Specification
- Designing of control and power circuit of Forward and Reverse of 3 Phase Induction Motor
- Door interlocking application using limit switch

### Programmable Logic Controller (PLC)

- Need of PLC in Electrical Control
- PLC Architecture
- NO/NC, Timer, Counters etc.
- Ladder programming
- Programming Practices





## MECHANICAL Lab

Mechanical Engineering Labs helps students become familiar with the application of techniques of engineering into design, manufacturing and maintenance while also understanding some core concepts such as -Thermodynamics, Mechanics, Mechatronics, IIoT (Industrial Internet of Things), 3D/4D/5D Printing Technology, Robotics, Simulation tools like- 3D CAD, Solid Works, ANSYS, CATIA etc.

S. No	Instruments, Tools & Component	Quantity
1	Transducers Kit	Please refer the Ledger Register
2	Mobile Robot	Please refer the Ledger Register
3	Thermal Conductivity of Insulating Powders	Please refer the Ledger Register
4	Thermal Conductivity of Insulating Powders.	Please refer the Ledger Register
5	Thermal Conductivity of a Good Conductor of Heat (Metal Rod).	Please refer the Ledger Register
6	The transfer Rate and Temperature Distribution for a Pin Fin.	Please refer the Ledger Register
7	Measure the Emissivity of the Test plate Surface.	Please refer the Ledger Register
8	Determine Stefan Boltzmann Constant of Radiation Heat Transfer.	Please refer the Ledger Register
9	Determine the Surface Heat Transfer Coefficient For Heated Vertical Cylinder in Natural Convection.	Please refer the Ledger Register
10	Heat Transfer Coefficient in Drop Wise and Film Wise condensation.	Please refer the Ledger Register
11	Critical Heat Flux in Saturated Pool Boiling.	Please refer the Ledger Register
12	LMTD and Effectiveness in Parallel and Counter Flow Heat Exchangers. 10 To Find the Heat transfer Coefficient in Forced Convection in a tube.	Please refer the Ledger Register

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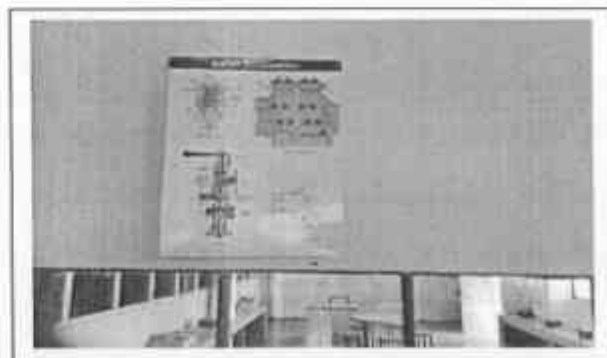
13	The rates of heat transfer for different materials and geometries	Please refer the Ledger Register
14	The importance and validity of engineering assumptions through the lumped heat capacity method.	Please refer the Ledger Register
15	Various measuring tools like dial gauge, micrometer, vernier caliper and telescopic gauges.	Please refer the Ledger Register
16	Measurement of angle and width of a V-groove by using bevel protector..	Please refer the Ledger Register
17	A gap by using slip gauges and To compare & access the method of small-bore measurement with the aid of spheres.	Please refer the Ledger Register
18	Measurement of angle by using sine bar.	Please refer the Ledger Register
19	Measurement of gear tooth thickness by using gear tooth Vernier caliper and To check accuracy of gear profile with the help of profile projector.	Please refer the Ledger Register
20	The effective diameter of external thread by using three- wire method.	Please refer the Ledger Register
21	The measure flatness and surface defects in the given test piece with the help of monochromatic check light and optical flat.	Please refer the Ledger Register
22	The accuracy of a ground, machined and lapped surface - (a) Flat surface (b) Cylindrical surface.	Please refer the Ledger Register
23	Chip reduction co-efficient (reciprocal of chip thickness ratio) during single point turning. 10 Forces measurements during orthogonal turning.	Please refer the Ledger Register
24	Torque and Thrust measurement during drilling.	Please refer the Ledger Register
25	Forces measurement during plain milling operation.	Please refer the Ledger Register
26	Measurement of Chip tool Interface temperature during turning using thermocouple technique.	Please refer the Ledger Register

  
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27	Fatigue loading.	Please refer the Ledger Register
28	Helical compression, tension and torsional springs design.	Please refer the Ledger Register
29	Curved Beams.	Please refer the Ledger Register
30	Preloaded bolts and bolts subjected to variable stresses.	Please refer the Ledger Register
31	Belt, Rope and Chain drive system.	Please refer the Ledger Register
32	Gear Design.	Please refer the Ledger Register
33	Sliding contact bearing design.	Please refer the Ledger Register
34	Anti-friction bearing selection	Please refer the Ledger Register
35	Four stroke petrol engine and four stroke diesel engine with the help of cut section models	Please refer the Ledger Register
36	Two stroke petrol and two stroke diesel engine with the help of cut section models.	Please refer the Ledger Register
37	Valve timing diagram for a single cylinder diesel engine.	Please refer the Ledger Register
38	Various types of boilers.	Please refer the Ledger Register
39	Various types of mountings and accessories.	Please refer the Ledger Register
40	System and measurement of steering geometry angles and their impact on vehicle performance.	Please refer the Ledger Register
41	System with specific reference to types of braking system, master cylinder, brake shoes. & Study of transmission system including clutches, gear box assembly and differential box	Please refer the Ledger Register



  
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### Mechanical Workshop

The workshop is unique in features. Spread over an area of 13,000 square feet, Mechanical Workshop includes fitting shop, smithy shop and carpentry shop.

Workshop is housed with the latest lathe, milling, shaping, shearing, welding and various standard machines of international and national make.

S. No	Instruments, Tools & Component	Quantity
1	<b>Carpentry Shop</b>	
	1. T – Lap joint	1
	2. Bridle joint	1
2	<b>Foundry Shop</b>	
	3. Mould of any pattern	1
	4. Casting of any simple pattern	1
3	<b>Welding Shop</b>	
	5. Lap joint by gas welding	1
	6. Butt joint by arc welding	1
	7. Lap joint by arc welding	1
	8. Demonstration of brazing, soldering & gas cutting	1
4	<b>Machine Shop Practice</b>	
	9. Job on lathe with one step turning and chamfering operations Fitting and Sheet Metal Shop	1
	10. Finishing of two sides of a square piece by filing	1
	11. Making mechanical joint and soldering of joint on sheet metal	1
	12. To cut a square notch using hacksaw and to drill a hole and tapping	1





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**Workshops spread over 13,000 square feet area**

  
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## INVENTORY DETAILS OF COMMUNICATION LAB. F BLOCK

Device Name with model/ make	Device Hardware Configuration	Software Configuration	Number of Device
HCL	Intel Dual Core 2.8/3.0 GHz, 2GB RAM, 80/500 GB HDD, 15" TFT, KB+Mouse (Logitech), Wired HeadPhone(iBall)	Windows XP, Microsoft Office 2007, WinZip, Adobe Acrobat Reader, VLC Media Player, Communication S/w, Word Web	24
Assembled	Intel Core i3(2120) 3.30 Ghz, 4GB RAM(DDR3), 500 GB HDD, 15" TFT, KB+Mouse (Logitech), Wired HeadPhone(iBall)	Windows Server 2008R2, Microsoft Office 2007, WinZip, Adobe Acrobat Reader, VLC Media Player, Communication S/w, Word Web	1

  
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**LISTING OF OTHER INFRASTRUCTURE**

B K Birla Institute of Engineering & Technology -PILANI			
Electrical, Electronics, Mechanical, Physics & Chemistry Lab			
AREA of LABS			
S. No	Name	Utilized for Course	Total area of Lab
1.	Issue - Library (Second Floor)	All Students	301 Sq. Meter (m <sup>2</sup> )
2.	Reference Library 1 (Library Lower Ground)	All Students	199.81 Sq. Meter (m <sup>2</sup> )
3.	Reference Library 2 (Library Lower Ground)	All Students	199.81 Sq. Meter (m <sup>2</sup> )
4.	Hostel <ul style="list-style-type: none"><li>• Boys</li><li>• Girl</li></ul>	All Students	113644 Sq. Meter (m <sup>2</sup> ) 52533 Sq. Meter (m <sup>2</sup> )
5.	Power Zone (GYM)	All Students	317 Sq. Meter (m <sup>2</sup> )
6.	Sports Complex	All Students	11627.5 Sq. Meter (m <sup>2</sup> )
7.	G Gandhi learning center (ABTRC)	All Students	
8.	Sarla Birla Activity Center WAITING HALL STAIRCASE PASSAGE	All Students	1615 Sq. Meter 3564 Sq. Meter 3984 Sq. Meter
9.	ROBO Canteen	All Students	1200 Sq. Meter (m <sup>2</sup> )



## HOSTELS

BKBIET has separate hostels for girls and boys, with a total of 1000 seats.

Caring wardens and vigilant 24×7 security ensure pleasant stay for students, allowing them to focus on academics.

In-house Mess facility, located adjacent to hostels, provides nutritious, hygienic and healthy food. Even for those who leave their homes for the first time can be reassured that these hostels would eventually turn out to be their home away from home.

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Even for those who leave their homes for the first time can be reassured that these hostels would eventually turn out to be their home away from home.

### BOYS HOSTEL BLOCK WISE ROOM DETAIL 28-2-2021

S. No	Block	Nos of Room	1 Seater	2 Seater	3 Seater	Total Seat	Total Students
1	A	80	-	2x75=150	3x5=15	165	85
2	B	82	1x3=3	2x75=150	3x4=12	165	134
3	C	75	69	2x3=6	3x3=9	84	84
4	D	89	-	2x89=178	-	178	79
5	Total	326	72	484	36	592	382

### GIRLS HOSTEL BLOCK WISE ROOM DETAIL 28-2-2021

S. No	Block	Nos of Room	1 Seater	2 Seater	3 Seater	Total Seat	Total students
1	A	79	-	2x79=158	-	158	109
2	B	59	-	2x59=118	-	118	-
3	Total	138	-	276	-	276	109



Mess Details

Boys Mess

1. Mess - I - 56 Chair
2. Mess - II - 80 Chair
3. Mess - III - 64 Chair

Girls Mess:

1. Mess - I - 60 Chair





### Sports Complex and Ground

We believe in providing energetic environment for holistic development of students.

Students are also encouraged to join in-campus clubs, including Photography Club, Dance Club, Music Club, Drama/Mime Club, etc. Many students also take part in societal development works through various activity groups of the campus.

Sarala Birla Cultural and Creativity Centre has been actively involved in such creative pursuits.

S.NO.	NAME OF GAMES	NAME OF ITEMS	QUANTIT Y	REMARKS
1	Basket Ball	Ball For Boys	12	
		Ball For Girls	6	
		Score Board	1	
		Court	1	
		Mediein Ball	1	
2	Volleyball	Court	2	
		Ball	12	
		Net and Enitna	2	
		Refree Table	2	
3	Football	Ground	1	
		Portable Pole	1 Pair	
		Fix Pole	1 Pair	



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		Net	1 Pair	
		Markars	50 Nos.	
		Ball	12	
4	<b>Cricket</b>	Ground	1	
		Ground Pitch	1	
		Net Pitch	2	For Net Practices
		Kit	3	
		Mat	1	
		VLC Cone	10	
		Cricket Tennis Ball	36	
		Plastics Wicket Set	2	
5	<b>Badminton</b>	Court	2	Sports Complex
		Kit	2	
		Badminton Requet	3	
		Net Set	2	2 Spaire
6	<b>Table Tennis</b>	Table	5	2 Table Set in Court + 2 Set Store + 1 Table Set for staff
		Tennis Ball	24	
		Tennis Bat	4	
		Hall	1	Sports Complex
7	<b>Carrom</b>	Table with Carrom Board and Striker	5	4 Table with Carrom for Students + 1 Set for Staff
		Room	1	Sports Complex
8	<b>Lawn Tennis</b>	Court	1	



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		Requet	2	
		Lawn Tennis Ball	50	
		Net	1	
9	<b>Chess</b>	Chess Set	3	1 For Staff
10	<b>Athletics</b>	High Jump Stand with Bar	1	
		Claper	1	
		Baton	9	
		Javelin	5	
		Stop Watch	8	
		knee Cap	6	
		Shotput	4	
		Discucus	4	
		Markers	50 Nos.	
		VLC Cone	10 Nos.	

S.No.	Play Grounds	Indore / Outdoor	Size
1	Football Play Ground	1	70 M and 100 M
2	Cricket Ground	1	22 yards (20.12m) in length and 10ft (3.05m) in width Pitch and OVAL.
3	Basketball Ground	1	94 by 50 feet (28.7 by 15.2 m)
4	Volleybal Ground	2	18 meters (59 feet) long and 9 meters (29.5 feet) wide
5	Badminton Court	2 Indore	13.4m long and 6.1m wide
6	Lawn Tennis Court	1	78 feet (23.77 metres) long. Its width is 27 feet (8.23 metres)





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7	Carom Room	1 Indore	Sports Complex
8	Table Tennis Hall	1 Indore	Sports Complex
9	Chess Room	1 Indore	Sports Complex



  
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### **THE POWERZONE (GYM)**

Fitness is one of the very important aspect of a human being and that's where gym and sports come into the picture. B K Birla Institute of Engineering and Technology has a fully equipped gym which has given its students a healthy lifestyle over the time span of 10 years.

BKBIET has always given a constant focus on the overall development of the students as well as the faculty. Thus institute sees that there should be a sportsman spirit in everyone so that all can progress, thus they set up powezone- the gym, for the students and staff.

Powerzone has always been excelsior in different events so organized by different universities and different professional bodybuilding, powerlifting and weight lifting competitions.

  
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S.No	GYM EQUIPMENT	Quantity
1	Bench press	1
2	Bench press machine	1
3	Inclined bench	1
4	Declined bench	1
5	Pack decks	1
6	Inclined bench press machine	1
7	Lats pull downs	1
8	Shoulder press	1
9	Angled bench	1
10	Multi setup (seated row, shoulder press, calf raises, leg press)	1
11	Cable cross multi setup	1
12	Pullup machine	1
13	Preacher curl machine	1
14	Side bend machine	1
15	Leg curls	1
16	T bar	1
17	Leg press	1
18	Squat rack	1
19	Hyperextension	1
20	Ab curls	1
21	Ab curls seated	1
22	Twister	1
23	Ab curls bench	1
24	Treadmill (automatic and manual)	1



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<u>Barbells</u>		
26	Olympic barbell 1	1
27	Barbell 6	1
28	EZ bar 1	1
<u>Weights</u>		
30	15 kg 8	1
31	20kg 4	1
32	10 kg 10	1
33	5kg 6	1
34	2.5kg 2	1
35	1.25kg 2	1
<u>Olympic weight</u>		
37	25kg 1	1
38	20kg 1	1
39	15kg 4	1
40	10kg 1	1
41	5kg 4	1
42	2.5kg 4	1
<u>Dumbbell's pair</u>		
44	40kg 1	1
45	30kg 1	1
46	20kg 1	1
47	15kg 1	1
48	10kg 2	1
49	5kg 1	1



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50	3kg 1	1
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### GANDHI LEARNING CENTER (ABTRC)

The **Gandhi Multimedia Museum** is a digital multimedia museum established in 2005. It is located at Gandhi Smriti, formerly Birla House, the site where Mohandas Karamchand Gandhi was assassinated. The Museum presents historical records of Gandhi's life, and aims to revive and redefine the values by which India obtained freedom.

The exhibition includes displays derived from classical Indian symbols such as the spinning wheel, turning prayer wheels, touching symbolic pillars, the act of hands touching sacred objects, and collaboratively constructed quilts. It embellishes the life of Gandhi in rhythmic with photographs, paintings, film footage, and video clips. A collection of over 40 exhibits shows the intersection of modern tactile computing and new green art with Gandhi's vision.


S.No	Exhibits	Quantity
1	Gandhi ashram	1
2	E-Train	1
3	Kaleidoscope	1
4	RFID doll	1
5	Charkha mandla	1
6	Global Gandhi	1
7	Gandhi stambha	1
8	Laser charkha	1
9	Vaishnav hand	1
10	Gandhi prison	1
11	E-clock	1
12	79heroes video & text	1
13	Quilt hand	1
14	Ashram window	1



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15	Ashoka chakra	1
16	Three monkey	1
17	E – charkha	1
18	Children's Gandhi	1
19	Unity pot	1
20	Unity tree	1
21	Unity stick	1



  
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### **SARALA BIRLA ACTIVITY CENTER**

Students are also encouraged to join in-campus clubs, including Photography Club, Dance Club, Music Club, Drama/Mime Club, etc. Many students also take part in societal development works through various activity groups of the campus.

Sarala Birla Cultural and Creativity Centre has been actively involved in such creative pursuits. Well-equipped Sarala Birla Cultural and Creativity Centre with modern gadgets and instruments for all kind of extracurricular activities





## ROBO CANTEEN

Students may also dine at the campus "robo canteen". It is to provide a service to the institute community, provide a variety of nutritious and attractively presented food and drinks at a reasonable cost and reinforce classroom learning. The **canteen** provides a rewarding opportunity for parents to be involved in their child's institute.



  
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**OVER ALL DETAILS ABOUT LABS, CLASS ROOM & AMINITIES AREA**


S.NO	NAME OF AREAS INSTRUCTIONAL AREA LABS:-	ROOM ID	ROOM TYPE	ROOM TYPE	AREA IN SQ. METRS	BLOCK NAME	FLOOR
1		AC MACHINE LAB	LB1	1	75	CLASS RM & LAB-B BLOCK	G.FLOOR
2		D.C.MACHINE & POWER SYSTEM LAB	LB2	2	75	CLASS RM & LAB-B BLOCK	G.FLOOR
4		BASIC ELECTRICAL LAB & ELECTRICAL DRIVES LAB	LB3	3	138	CLASS RM & LAB-B BLOCK	G.FLOOR
5		POWER ELECTRONICS LAB	LB4	4	75	CLASS RM & LAB-B BLOCK	G.FLOOR
6		ANALOG & DIGITAL COMMUNICATION LAB	LB5	5	75	CLASS RM & LAB-B BLOCK	G.FLOOR
7		DIGITAL SIGNAL PROCESSING LAB	LB6	6	138	CLASS RM & LAB-B BLOCK	F.FLOOR
8		ROBOTIC LAB.	LB7	7	138	CLASS RM & LAB-B BLOCK	S.FLOOR
9		PCB LAB	LB8	8	201	CLASS RM & LAB-B BLOCK	S.FLOOR
10		ELECTRONICS DEVICES & CIRCUIT LAB, BASIC ELECTRONIC LAB.,	LB9	9	75	CLASS RM & LAB-A BLOCK	G.FLOOR
11		MICRO PROCESSOR & MICRO CONTROLLER LAB	LB10	10	75	CLASS RM & LAB-A BLOCK	G.FLOOR
12		DIGITAL ELECTRONICS LAB	LB11	11	138	CLASS RM & LAB-A BLOCK	G.FLOOR
13		MICROWAVE & WIRELESS COMMUNICATION LAB	LB12	12	138	CLASS RM & LAB-A BLOCK	G.FLOOR

  
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14		INSTRUMENTATION & MEASUREMENT LAB.	LB13	13	138	CLASS RM & LAB-A BLOCK	F.FLOOR
15	C and D Block	PHYSICS LAB	LB14	14	138	CLASS RM & LAB-A BLOCK	F.FLOOR
16	C and D Block	CHEMISTRY LAB	LB15	15	37	CLASS RM & LAB-B BLOCK	S.FLOOR
17	COMPUTER LAB	COMPUTER LAB	LB16	16	250	ADMIN. BLOCK	F.FLOOR
		COMPUTER LAB	LB17	17	170	ABTRC	F.FLOOR
18		ELECTRICAL LAB	LB18	18	170	ABTRC	F.FLOOR
		LAB	LB19	19	150	M.P.HALL	G.FLOOR
19		ELECTRICAL LAB	LB20	20	170	ABTRC	S.FLOOR
20		ELECTRICAL LAB	LB21	21	170	ABTRC	S.FLOOR
		LAB	LB22	22	175	TEMP. MESS	G.FLOOR
21		MECHANICAL LAB	LB23	23	211	WORK SHOP	G.FLOOR
		LAB	LB24	24	87	MCA BLOCK	G.FLOOR
		LAB	LB25	25	87	MCA BLOCK	F.FLOOR
		LAB	LB26	26	194	MCA BLOCK	F.FLOOR
		LAB	LB27	27	150	MCA BLOCK	S.FLOOR
		LAB	LB28	28	97	MCA BLOCK-II	G.FLOOR
		LAB	LB29	29	59	MCA BLOCK-II	G.FLOOR
		LAB	LB30	30	97	MCA BLOCK-II	F.FLOOR
		LAB	LB31	31	97	MCA BLOCK-II	S.FLOOR
		LAB	LB32	32	59	MCA BLOCK-II	S.FLOOR
22		MECHANICAL LAB	LB33	33	172	WORKSHOP	F.FLOOR
		LAB	LB34	34	72.5	ABTRC ANNEXE	F.FLOOR
		LAB	LB35	34	72.5	ABTRC ANNEXE	F.FLOOR
<b>TOTAL LAB AREA(EXISTING)</b>					<b>4364</b>	<b>SQ. MTRS.</b>	
2	<b>CLASS ROOM:-</b>						
			CR1	1	75	CLASS RM & LAB-B BLOCK	F.FLOOR

  
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			CR2	2	75	CLASS RM & LAB--B BLOCK	F.FLOOR
			CR3	3	75	CLASS RM & LAB--B BLOCK	S.FLOOR
			CR4	4	75	CLASS RM & LAB--B BLOCK	S.FLOOR
			CR5	5	75	CLASS RM & LAB--B BLOCK	S.FLOOR
			CR6	6	75	CLASS RM & LAB-A BLOCK	F.FLOOR
			CR7	7	75	CLASS RM & LAB-A BLOCK	F.FLOOR
			CR8	8	75	CLASS RM & LAB-A BLOCK	S.FLOOR
			CR9	9	75	CLASS RM & LAB-A BLOCK	S.FLOOR
			CR10	10	75	CLASS RM & LAB-A BLOCK	S.FLOOR
			CR11	11	138	CLASS RM & LAB-A BLOCK	F.FLOOR
			CR12	12	95	MUSIC HALL	G.FLOOR
			CR13	13	95	MUSIC HALL	F.FLOOR
			CR14	14	60	T.T.HALL	G.FLOOR
			CR15	15	82	BLOCK -D	G.FLOOR
			CR16	16	82	BLOCK -D	G.FLOOR
			CR17	17	82	BLOCK -D	S.FLOOR
			CR18	18	82	BLOCK -D	S.FLOOR
			CR19	19	75	CLASS RM & LAB--B BLOCK	S.FLOOR
			CR20	20	82	BLOCK -C	F.FLOOR
			CR21	21	82	BLOCK -C	F.FLOOR
			CR22	22	82	BLOCK -C	S.FLOOR
			CR23	23	82	BLOCK -C	S.FLOOR
			CR24	24	93	WORKSHO P	F.FLOOR
			CR25	25	76	WORKSHO P	F.FLOOR



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			CR26	26	76	WORKSHO P	F.FLOOR
			CR27	27	72.5	ABTRC ANNEXE	G.FLOOR
			CR28	28	72.5	ABTRC ANNEXE	G.FLOOR
<b>TOTAL CLASS ROOM AREA(EXISTI NG)</b>					<b>2259</b>	<b>SQ. MTRS.</b>	
	<b>TUTORIAL ROOM</b>						
			TR1	1	26	CLASS RM & LAB-B BLOCK	MUMT Y
			TR2	2	26	CLASS RM & LAB-B BLOCK	MUMT Y
			TR3	3	37	CLASS RM & LAB-B BLOCK	TERRAC E
			TR4	4	37	CLASS RM & LAB-B BLOCK	G.FLOOR
	MCA		TR5	5	37	CLASS RM & LAB-B BLOCK	G.FLOOR
			TR6	6	37	CLASS RM & LAB-A BLOCK	G.FLOOR
			TR7	7	37	CLASS RM & LAB-A BLOCK	TERRAC E
			TR8	8	40	BLOCK -C	G.FLOOR
			TR9	9	40	BLOCK -C	G.FLOOR
			TR10	10	40	BLOCK -C	G.FLOOR
			TR11	11	40	BLOCK -C	G.FLOOR
			TR12	12	47	WORKSHO P	F.FLOOR
			TR13	13	47	WORKSHO P	F.FLOOR
			TR14	14	55	ABTRC ANNEXE	F.FLOOR
<b>TOTAL TUTORIAL ROOM AREA(EXISTI NG)</b>					<b>546</b>	<b>SQ. MTRS.</b>	
<b>3.</b>	<b>SEMINAR HALL:-</b>						



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		SH1	SEMINAR HALL	1	98	ADMIN.BL OCK	G.FLOOR
		SH2	SEMINAR HALL	2	250	ADMIN.BL OCK	S.FLOOR
		SH3	SEMINAR HALL	3	137	CLASS RM & LAB -L2	
		SH4	SEMINAR HALL	4	170	ABTRC	G.FLOOR
		SH5	SEMINAR HALL	5	170	ABTRC	G.FLOOR
	<b>TOTAL</b>				<b>825</b>	<b>SQ. MTRS.</b>	
<b>4.</b>	<b>OTHER</b>						
	WORKSHOP		W.S		209	WORKSHO P	G.FLOOR
	DRAWING HALL		D.HALL		209	WORKSHO P	G.FLOOR
	COMPUTER CENTRE		C.C		250	ADMIN BLOCK	F.FLOOR
	LIBRARY		L.B		199.81	ADMIN BLOCK	L.G.FLO OR
	LIBRARY		L.B		301	ADMIN BLOCK	L.G.FLO OR
	LIBRARY		L.B		199.81	ADMIN BLOCK	S.FLOOR
	<b>TOTAL</b>				<b>1368.62</b>	<b>SQ. MTRS.</b>	
					<b>9362.62</b>		
<b>5.</b>	<b>ADMINISTRATI VE AREA :-</b>						
		DIR. OFF	PRINCIPAL/DIR. OFFICE		40	ADMIN. BLOCK	G.FLOOR
		D OFF 1	MAIN ADMIN OFFICE		37	CLASS RM & LAB-B BLOCK	F.FLOOR
		D OFF 2	MAIN ADMIN OFFICE		37	CLASS RM & LAB-A BLOCK	F.FLOOR
		E.OFFICE	EXAM CONTROL		60	ADMIN. BLOCK	L.G.FLO OR
		E.X 1	MAIN ADMIN OFFICE		37	CLASS RM & LAB-A BLOCK	F.FLOOR
		F OFF 1	MAIN ADMIN OFFICE		11	CLASS RM & LAB-A BLOCK	G.FLOOR
		F OFF 12	MAIN ADMIN OFFICE		22	CLASS RM & LAB-B BLOCK	G.FLOOR
		F OFF 15	MAIN ADMIN OFFICE		22	CLASS RM & LAB-B BLOCK	F.FLOOR
		F OFF 2	MAIN ADMIN OFFICE		11	CLASS RM & LAB-A BLOCK	G.FLOOR



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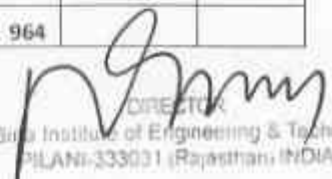
		F OFF 3	MAIN ADMIN OFFICE		22	CLASS RM & LAB-A BLOCK	G.FLOOR
		F OFF 4	MAIN ADMIN OFFICE		11	CLASS RM & LAB-A BLOCK	F.FLOOR
		F OFF 5	MAIN ADMIN OFFICE		11	CLASS RM & LAB-A BLOCK	F.FLOOR
		F OFF 6	MAIN ADMIN OFFICE		22	CLASS RM & LAB-A BLOCK	F.FLOOR
		F OFF 7	MAIN ADMIN OFFICE		11	CLASS RM & LAB-A BLOCK	S.FLOOR
		F OFF 8	MAIN ADMIN OFFICE		11	CLASS RM & LAB-A BLOCK	S.FLOOR
		F OFF 9	FACULTY ROOM		22	CLASS RM & LAB-A BLOCK	S.FLOOR
		F OFF 10	FACULTY ROOM		11	CLASS RM & LAB-B BLOCK	G.FLOOR
		F OFF 11	FACULTY ROOM		11	CLASS RM & LAB-B BLOCK	G.FLOOR
		F OFF 13	FACULTY ROOM		11	CLASS RM & LAB-B BLOCK	F.FLOOR
		F OFF 14	FACULTY ROOM		11	CLASS RM & LAB-B BLOCK	F.FLOOR
		F OFF 16	MAIN ADMIN OFFICE		11	CLASS RM & LAB-B BLOCK	S.FLOOR
		F OFF 17	MAIN ADMIN OFFICE		11	CLASS RM & LAB-B BLOCK	S.FLOOR
		F OFF 18	FACULTY ROOM		22	CLASS RM & LAB-B BLOCK	S.FLOOR
		F OFF 19	CABIN OF HOD		11	ADMIN. BLOCK	F.FLOOR
		F OFF 20	CABIN OF HOD		11	ADMIN. BLOCK	S.FLOOR
		F OFF 21	FACULTY ROOM		14	BLOCK-D	G.FLOOR
		F OFF 22	FACULTY ROOM		19	BLOCK-D	F.FLOOR
		F OFF 23	FACULTY ROOM		14	ABTRC	F.FLOOR
		F OFF 24	FACULTY ROOM		19	ABTRC	F.FLOOR
		F OFF 25	FACULTY ROOM		28	MCA-II	F.FLOOR
		OFF 1	MAIN ADMIN OFFICE		30	ADMIN. BLOCK	G.FLOOR
		OFF 9	MAIN ADMIN OFFICE		12	ADMIN. BLOCK	G.FLOOR





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		OFF 2	MAIN ADMIN OFFICE		30	ADMIN. BLOCK	G.FLOOR
		OFF 3	MAIN ADMIN OFFICE		20	ADMIN. BLOCK	G.FLOOR
		OFF 4	MAIN ADMIN OFFICE		20	ADMIN. BLOCK	G.FLOOR
		OFF 5	BOARD ROOM		40	ADMIN. BLOCK	G.FLOOR
		OFF 6	RECEPTION ROOM		11	ADMIN. BLOCK	G.FLOOR
		OFF 7	MAIN ADMIN OFFICE		13	ADMIN. BLOCK	G.FLOOR
		OFF 8	MAIN ADMIN OFFICE		11	ADMIN. BLOCK	G.FLOOR
		F OFF 26	FACULTY ROOM		27	WORKSHOP	F.FLOOR
	<b>TOTAL ADMINISTRATIVE AREA</b>				<b>805</b>	<b>SQ. MTRS.</b>	
<b>5.</b>	<b>CENTRAL STORE</b>	Store 1	Central store		20	Admin	G.Floor
		Store 2	Central store		12	Admin	G.Floor
		Store 3	Central store		10	Admin	F.FLOOR
		Store 4	Central store		20	Admin	L.G.Floor
					<b>62</b>		
<b>6.</b>	<b>SECURITY</b>	S1	Security		8	M.Gate	
		S2	Security		8	Hostel/Colony Gate	
		S3	Security		8	B.Hostel Gate	
		S4	Security		8	G.Hostel Gate	
		S5	Security		8	Dir. Resi.	
					<b>40</b>		
<b>7.</b>	<b>PLACEMENT OFFICE</b>	P Off	Placemient Office		37	Class Room & Lab- B BLOCK	F.Floor
<b>8.</b>	<b>HOUSE KEEPING</b>	H Off	House Keeping		20	Admin	G.Floor
					<b>964</b>		

  
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AMENITIES (TOILET AREA)						
CLASS ROOM & LAB BLOCK(AREA SFT & SMT)						
TOILET(ST AFF)		1134		105.39	File no 10, sheet 1	
TOILET(BOYS)		1244		115.61	File no 10, sheet 1	
TOILET(GIRLS)		1028		95.54	File no 10, sheet 1	
WORKSHOP BLOCK				316.54		
TOILET(BOYS)		225		20.91	File no 10, sheet 1	
TOILET(GIRLS)		225		20.91	File no 10, sheet 1	
ADMIN. BLOCK(L.G.FLOOR)						
TOILET(GIRLS)		127		11.80	File no 10, sheet 1	
TOILET(BOYS)		127		11.80	File no 10, sheet 1	
ADMIN. BLOCK(GROUND FLOOR)						
TOILET STAFF		211		19.61	File no 10, sheet 1	
ADMIN. BLOCK(FIRST FLOOR)						
TOILET (GIRLS)		54		5.02	File no 10, sheet 1	
TOILET (BOYS)		129		11.99	File no 10, sheet 1	
ADMIN. BLOCK(SECOND FLOOR)						
TOILET (GIRLS)		129		11.99	File no 10, sheet 1	
TOILET (BOYS)		129		11.99	File no 10, sheet 1	
MCA BLOCK-I						
ALL TOILET		115		10.69		
MCA BLOCK-II						
ALL TOILET		115		10.69		
ABTRC						

  
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ALL TOILET		180	16.73		
<b>LINK PASSAGE(BET BOTH MCA BLOCK)</b>					
ALL TOILET		256	23.79		
<b>WORKSHOP BLOCK(F.FLOOR)</b>					
TOILET(BOYS)		225	20.91	File no 10, sheet 1	
TOILET(GIRLS)		225	20.91	File no 10, sheet 1	
<b>TOTAL TOILET AREA</b>		<b>5878</b>	<b>546.28</b>		
<b>OTHER</b>					
<b>BOYSHOSTEL &amp; W.QTRS</b>					
	A-BLOCK	37133	3451.02		
	B-BLOCK	37133	3451.02		
	C-BLOCK	17178	1596.47		
	D-Block	22200	2063.20		
<b>GIRLS HOSTEL &amp; W.QTRS</b>					
	G-1	37133	3451.02		
	G-2	15400	1431.23		
<b>ALL FLOOR</b>		<b>52533</b>			
W.Qtrs -A Block(Boys Hostel)		4000	371.75		
W.Qtrs -B Block(Boys Hostel)		4000	371.75		
W.Qtrs -Girls Hostel		4000	371.75		
Bachelor Qtrs		11460	1065.06		
Dir. Residence		3200	297.40		
Staff Qtrs I		6200	576.21		
Staff Qtrs II		6200	576.21		
S.Qtrs		7000	650.56		
Technician Qtrs I		1500	139.41		
Technician Qtrs II		1000	92.94		
Servant Qtrs I		750	69.70		
Servant Qtrs II		400	37.17		
Servant Qtrs III		400	37.17		
Driver Qtrs		800	74.35		
<b>BOYS &amp; GIRLS DINING HALL</b>					
<b>TOTAL FLOOR AREA</b>		<b>21000</b>	<b>1951.67</b>		
<b>DESPENSARY</b>					
<b>TOTAL FLOOR AREA</b>		<b>870</b>	<b>80.86</b>		



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MUSIC CENTRE						
TOTAL FLOOR AREA			3500	325.28		
ELECTRICAL ROOM						
TOTAL FLOOR AREA			975	90.61		
T.MENSS & CANTEEN						
TOTAL FLOOR AREA			1200	111.52		
GYM			317	29.46		
Play Ground						
Basket Ball	105x65		6825	634.29		
Basket Ball	50x40		2000	185.87		
Basket Ball	50x40		2000	185.87		
Volly Ball	3x60x30		5400	501.86		
Long Tennis	100x40		4000	371.75		
ABTRC ANNEXE TOI..			322.8	30.00	<b>1879.65</b>	
Total Other Area			<b>318029.8</b>	<b>29556.67</b>		
Total Aminites Area(IN SFT)Ready			<b>323907.80</b>			
Total Aminites Area(IN SMT)Ready			<b>30102.96</b>			
Aminites Planed						
Amphitheatre			25100	2332.00		
Sports Complex			11627.5	1080.00		
Total Aminites Area(IN SMT)Planed			<b>36727.5</b>	<b>3412.00</b>		
CERCULATION AREA(PASSAGE + STAIR CASE)						
CLASS ROOM & LAB BLOCK(AREA)						
NAME			AREA			
WAITING HALL			1615	150.09		
STAIRCASE			3564	331.23		
PASSAGE			396	370.26		
			3456	321.19		
WORKSHOP BLOCK						
PASSAGE			36	8.92		
PASSAGE			1410	131.04		
ADMIN. BLOCK(L.G.FLOOR)						
PASSAGE AREA						
1			288	26.77		

  
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2			156	14.50	
3			127	11.80	
4			202	18.77	
STAIR CASE			202	18.77	
2			156	14.50	
3			156	14.50	
			1287	119.61	
<b>ADMIN. BLOCK(GROUND FLOOR)</b>					
ENT. LOBBY			1198	111.34	
STAIR CASE			480	44.61	
PASSAGE(EAST)			288	26.77	
(WEST)			202	18.77	
<b>ADMIN. BLOCK(FIRST FLOOR)</b>					
PASSAGE					
1			433	40.24	
2			118	10.97	
3			118	10.97	
4			211	19.61	
STAIR CASE			202	18.77	
				100.56	
<b>AMENITIES (PASSAGE AREA)</b>		<b>= TO BE CONTINUOUS.....</b>			
<b>ADMIN. BLOCK(SECOND FLOOR)</b>					
PASSAGE					
1			433	40.24	
2			118	10.97	
3			118	10.97	
4			211	19.61	
STAIR CASE			202	18.77	
<b>LINK PASSAGE(LOWER GROUND FLOOR)</b>				100.56	
STAIRCASE			202	18.77	
PASSAGE			120	11.15	
<b>LINK PASSAGE(GROUND FLOOR)</b>					
CORRIDOR			626	58.18	
			120	11.15	
COMMAN. AREAS(LOBBY)			360	33.46	
			72	6.69	
STAIR CASE			202	18.77	



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<b>LINK PASSAGE(FIRST FLOOR)</b>				
CORRIDOR S			906	84.20
COMMAN AREAS(LOBBY)			200	18.59
			72	6.69
STAIR CASE			202	18.77
<b>LINK PASSAGE(SECOND FLOOR)</b>				
CORRIDOR S			280	26.02
STAIR CASE			202	18.77
<b>MCA BLOCK -I</b>				
PASSAGE	G.FLOOR	17.875X15	268.125	24.92
		56.75X8	454	42.19
	F.FLOOR	41.75X8.00	334	31.04
		30.375X11.00	334.125	31.05
		34.75X8.00	278	25.84
	S.FLOOR	41.75X8.00	334	31.04
		30.375X11.00	334.125	31.05
STAIRCASE	G.FLOOR	22.00X11.00	242	22.49
	F.FLOOR	22.00X11.00	242	22.49
	S.FLOOR	22.00X11.00	242	22.49
	MUMTY	22.00X11.00	242	22.49
<b>= TO BE CONTINIOUS.....</b>				
<b>AMENITIES (PESSAGE AREA)</b>				
<b>MCA BLOCK -II</b>				
PASSAGE	G.FLOOR	17.875X15	268.125	24.92
		56.75X8	454	42.19
	F.FLOOR	41.75X8.00	334	31.04
		30.375X11.00	334.125	31.05
		34.75X8.00	278	25.84
	S.FLOOR	41.75X8.00	334	31.04
		30.375X11.00	334.125	31.05
STAIRCASE	G.FLOOR	22.00X11.00	242	22.49
	F.FLOOR	22.00X11.00	242	22.49
	S.FLOOR	22.00X11.00	242	22.49
<b>ABTRC</b>				
PASSAGE	G.FLOOR	2X34.25X9.625	659.31	61.27



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		18.00X18.00	324	30.11		
	M.ENT.	11.25X18.00	202.5	18.82		
	F.FLOOR	20X36.5	730	67.84		
		2X8.5X9.375	159.38	14.81		
		20X6.75	135	12.55		
	S.FLOOR	20X36.5	730	67.84		
		2X8.5X9.375	159.38	14.81		
		20X6.75	135	12.55		
STAIRCASE	G.FLOOR	20.125X18	362.25	33.67		
	F.FLOOR	20.125X18	362.25	33.67		
	S.FLOOR	20.125X18	362.25	33.67		
<b>WORKSHOP (F.FLOOR)</b>						
PASSAGE	F.FLOOR	72.75X7	509.25	47.33		
		176.25X8	1410	131.04		
		83.875X7	587.125	54.57		
<b>TOTAL PASSAGE AREA</b>			<b>37789.445</b>	<b>3512.03</b>		
<b>ROAD</b>						
<b>TOTAL FLOOR AREA</b>			<b>72900</b>	<b>6775.09</b>		
<b>Total Circulation Area</b>			<b>110689.4</b>	<b>10287.</b>		
			<b>45</b>	<b>12</b>		

**REFERENCES**

- ❖ All labs Stock Lager Register

  
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