



# Eshan College of Engineering, Mathura

(Approved by AICTE, New Delhi/Dr. A.P.J. Kalam Technical University, Lucknow, Uttar Pradesh)

Criteria	4 - Infrastructure and Learning Resources
Key Indicator	4.1 - Physical Facilities
Metric	4.1.1 - Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT infrastructure, facilities for cultural and sports activities, gymnasium, yoga centre etc. in the institution

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## List of Labs with Lab Incharges

S. No	LAB NAME	LAB INCHARGE
1.	BUILDING PLANNING AND DRAWING	ANUJ VERMA
2.	FLUID MECHANICS	ASHISH VERMA
3.	MATERIAL TESTING LAB	ANUJ VERMA
4.	SURVEYING LAB	DEEPAK KUMAR
5.	CONCRETE TECHNOLOGY	DEEPAK KUMAR
6.	HYDRAULICS AND HYDRAULIC MACHINES	DEEPAK KUMAR
7.	SOLID MECHANICS	SHAILESH KUMAR
8.	GEOTECHANICAL LAB	MUNEESH KUMAR
9.	QUANTITY ESTIMATE AND MANAGEMENT	ANUJ VERMA
10.	STRUCTURAL DETAILING	YOGENDRA SINGH
11.	TRANSPORTATION ENGINEERING	GANESH SINGH
12.	ENVIRONMENT ENGINEERING	YOGENDRA SINGH
13.	CAD LAB (3 <sup>ND</sup> YEAR)	ASHISH VERMA
14.	MINI PROJECT (2 <sup>ND</sup> YEAR)	SHAILESH KUMAR
15.	MINI PROJECT (3 <sup>RD</sup> YEAR)	ANUJ VERMA
16.	MINI PROJECT (4 <sup>TH</sup> YEAR)	SHAILESH KUMAR

**Er Shailesh Kumar**  
**(H.O.D Civil Engineering)**

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### LAB: TRANSPORTATION LAB

S.N	NAME OF EQUIPMENT	QTY.	COMPANY
1	OPEN ENDED STEEL CYLINDER WITH PLUNGER AND BASE PLATE	1	ADVANCE SCIENTIFIC AND ENGINEERING WORKS
2	I.S. SIEVES 12.5 MM	1	RUBSON INDUSTRIES
	I.S. SIEVES 10MM	1	RUBSON INDUSTRIES
	IS SIEVES 2.36 MM	1	RUBSON INDUSTRIES
3	TAMPING ROD	1	
4	WEIGHT BALANCE	1	
5	IMPACT TESTING MACHINE	1	ADVANCE SCIENTIFIC AND ENGINEERING
6	OVEN	1	
7	STANDARD FLAKINESS GAUGE	1	
8	STANDARD ELONGATION GAUGE	1	
9	I.S. SIEVES 37.5 MM	1	RUBSON INDUSTRIES
	40 MM	1	
	53 MM	1	
	26.5 MM	1	
	12.5 MM	1	
	10 MM	1	
	6.3 MM	1	
	25MM	1	
10	RING AND BALL APPARATUS	1	
11	DUCTILITY TESTING MACHINE	1	

# **ESHAN COLLEGE OF ENGINEERING, MATHURA**

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## **DEPARTMENT OF CIVIL ENGINEERING**

### **LAB: ENVIRONMENTAL ENGINEERING LAB**

<b>S.N.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY.</b>	<b>COMPANY</b>
1.	TURBIDITY METER	1	RI ANALYTICAL LABORATORIES
2.	DIGITAL TDS METER	1	RI ANALYTICAL LABORATORIES
3.	DIGITAL PH METER	1	RI ANALYTICAL LABORATORIES
4.	DIGITAL DO METER	1	RI ANALYTICAL LABORATORIES

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### LAB: STRUCTURE DETAILING LAB

S.N	NAME OF EQUIPMENT	QTY.	COMPANY
1.	CLERK MAXWELL RECIPROCAL THEOREM	1	TRUE PIZE
2.	DIAL GAUGE	4+2=6	TRUE PIZE
3.	HANGER	4+2+27=33	TRUE PIZE
4.	WEIGHT 200 GM 2KG 1 KG 500 GM	1+6+4+5=16 3+2=5 1+5=6 8+8=16	TRUE PIZE
5.	THREE HINGED ARCH APP.	1	TRUE PIZE
6.	THREE HINGED ARCH APP.	1	TRUE PIZE
7.	MAGNETIC STD.	4+2=6	TRUE PIZE

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### LAB: GEOTECHNICAL LAB

S.N	NAME OF EQUIPMENT	QTY.	COMPANY
1.	HOT AIR OVEN	1	
2.	CONTAINERS WITH LID	18	
3.	DENSITY BOTTLE 50 ML	1	
4.	CORE CUTTER	1	
5.	SAND REPLACEMENT	1	
6.	SIEVE ANALYSIS (2*6.3,2*4.75,25,10,12.5,26.5,53, 40,37.5,75)MM ,2.36 MM (500,300)MICRON	1  23	SHAKER BHUPENDRA ELECTRIC, SIEVES :RUPSON INDUSTRIES 1 =LAB LINE
7.	CASAGRANDE APPARATUS	1	
8.	CONE PENETRATION	1	
9.	DIRECT SHEAR TESTING MACHINE	1	MOTOR ANAND MOTOR RESIDENT WORK

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### LAB: FLUID MECHANICS LAB

S.N	NAME OF EQUIPMENT	QTY.	COMPANY
1.	IMPACT OF JAT APPARATUS	1	ADVANCE SCIENTIFIC AND ENGG. WORKS
2.	ORIFICE	1	
3.	ORIFICE METER	1	
4.	VENTURIMETER	1	
5.	BERNOULLI THEOREM APPARATUS	1	
6.	REYNOLDS NUMBER	1	ADVANCE SCIENTIFIC AND ENGG.
7.	FRICTION FACTOR	1	WORKS
8.	META CENTRIC HEIGHT	1	
9.	SUDDEN ENLARGE MENT ,SUDDEN CONTRACTION LOSSES BEND		
10.	METAL SCALE	1	ADVANCE SCIENTIFIC AND ENGG. WORKS

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### LAB: SURVEY LAB

S.N.	NAME OF EQUIPMENT	QTY.	COMPANY NAME
1.	PRISMATIC COMPASS	6	
2.	AUTO LEVEL	6	
3.	DUMPY LEVEL	3	
4.	VERNIER THEODOLITE	3	
5.	CHAINS 30 M ,30M ,20M,20M,20M	5	
6.	ARROWS	83	
7.	TAPS 30 M,15 M,15M	3	
8.	SPRIT LEVEL	12	
9.	TROUGH COMPASS	14	



# **ESHAN COLLEGE OF ENGINEERING, MATHURA**

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## **DEPARTMENT OF CIVIL ENGINEERING**

**LAB: HHM LAB**

<b>S.N.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY.</b>	<b>COMPANY</b>
1.	OPEN CHANNEL	1	ADVANCE SCIENTIFIC AND ENGINEERING WORKS(ROORKEE)
2.	CENTRIFUGAL PUMP	1	ADVANCE SCIENTIFIC AND ENGINEERING WORKS(ROORKEE)
3.	PELTON WHEEL TURBINE	1	ADVANCE SCIENTIFIC AND ENGINEERING WORKS(ROORKEE)
4.	FRANCIS TURBINE	1	ADVANCE SCIENTIFIC AND ENGINEERING WORKS(ROORKEE)

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### LAB: CONCRETE TECHNOLOGY LAB

S.N.	NAME OF EQUIPMENT	QTY.	COMPANY
1.	COMPACTION FACTOR	1	OPTART
2.	SLUMP TEST APPARATUS	1	OPTART
3.	VEE-BEE CONSISTOMETER	1	OPTART
4.	COMPRESSIVE STRENGTH (A)CUBE 150MM (B)CTM MACHINE	11 1	OPTART
5.	REBOUND HAMMER	1	OPTART
6.	WEIGHING MACHINE	1	OPTART
7.	MEASURING TUBES	4	OPTART
8.	HOT AIR OVEN	1	OPTART

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### LAB: MATERIAL TESTING LAB

S.N.	NAME OF EQUIPMENT	QTY.	COMPANY
1.	INITIAL AND FINAL SETTING NEEDLE	2	ASARAM DHIMAN AND SONS RORKEE (UK)
2.	VICAT APPARATUS	2	ASARAM DHIMAN AND SONS RORKEE (UK)
3.	AGGREGATE	20-30 KG	
4.	COMPRESSIVE STRENGTH (A)CUBES (B)CTM MACHINE (C)CEMENT	11 1 1	ADVANCE SCIENTIFIC AND ENGG. WORKS ULTRATECH CEMENT
5.	FINENESS OF CEMENT (A)SIEVES (90MICRON) (B) AIR PERMEABILITY TEST	2 4	RUPSON INDUS TREES
6.	LE-CHATELIER APPARATUS	6	

# **ESHAN COLLEGE OF ENGINEERING, MATHURA**

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## **DEPARTMENT OF CIVIL ENGINEERING**

**LAB: CAD LAB**

<b>S.NO.</b>	<b>NAME OF EQUIPMENT</b>	<b>NOP</b>	<b>COMPANY</b>
<b>1.</b>	AUTO CAD / STAAD PRO	25	AUTO DESK

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

**LAB: QECCM LAB**

S/N	NAME OF EQUIPMENT	QTY.	COMPANY NAME
1.	PRISMATIC COMPASS	6	
2.	AUTO LEVEL	6	
3.	DUMPY LEVEL	3	
4.	VERNIER THEODOLITE	3	
5.	CHAINS 30 M ,30M ,20M,20M,20M	5	
6.	ARROWS	83	
7.	TAPS 30 M,15 M,15M	3	
8.	SPRIT LEVEL	12	
9.	TROUGH COMPASS	14	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### **LAB:** SOLID MECHANICS

S/N	NAME OF EQUIPMENT	QTY.	COMPANY NAME
1.	UNIVERSAL TESTING MACHINE =400 KN	1	A.S.I. SALES PRIVATE LIMITED
2.	VERNIER CALIPER	1	AEROSPACE
3.	METER SCALE		1
4.	SIMPLY SUPPORTED BEAM	2	
5.	HANGER FOR SSB	2	
6.	WEIGHTS (MIX) 50=5,200=5,500=5,1KG =5	20	
7.	DIAL GAUGE	1	ZOOM
8.	ROCK WELL HARDNESS APPARATUS	1 WITH 2 BALLS	FINE SPAVY ASSOCIATES AND ENGG. PRVT.LIMITED
9.	IMPACT TEST CHARPY	1	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

**LAB:** Building Planning and Drawing

S.NO.	NAME OF EQUIPMENT	NOP	COMPANY
1.	AUTO CAD	27	AUTO DESK
2	Monitor TFT	27	ACEr
3.	Mouse	27	HP
4.	CPU	27	Intex
5.	Keyboard	27	HP
6.	Ram 16 GB	27	HP
7.	SSD240 GB	27	HP
8.	Projector	1	Beq

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF CIVIL ENGINEERING

### **LAB:** CAD Lab

S.NO.	NAME OF EQUIPMENT	NOP	COMPANY
1.	AUTO CAD	27	AUTO DESK
2	Monitor TFT	27	ACEr
3.	Mouse	27	HP
4.	CPU	27	Intex
5.	Keyboard	27	HP
6.	Ram 16 GB	27	HP
7.	SSD240 GB	27	HP
8.	Projector	1	Beq



# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## Department of Computer Science & Engineering

### List of Labs with Lab Incharge

Sr. No.	Lab Name	Lab Incharge
1	Programming for Problem Solving Lab	Mr. Kuldeep Singh
2	Data Structures using C Lab	Ms. PriyankaAsthana
3	Discrete Structure & Logic Lab	Ms. Shiva Gupta
4	Mini Project Lab	Ms. Shiva Gupta
5	Python Programming Lab	Mr. H. K. Sharma
6	Database Management System Lab	Mr. H. K. Sharma
7	Compiler Design Lab	Ms. PriyankaAsthana
8	Design and Analysis of Algorithm Lab	Mr. Kuldeep Singh
9	Artificial Intelligence Lab	Mr. VyomKulshreshtha
10	Project Lab	Mr. VyomKulshreshtha
11	Operating Systems Lab	Mr. VyomKulshreshtha
12	Software Engineering Lab	Mr. H. K. Sharma
13	Web Technology Lab	Mr. UpendraTyagi
14	Computer Networks Lab	Mr. Kuldeep Singh
15	Foundation of Computer Science Lab	Mr. Kuldeep Singh
16	Advanced Algorithm Lab	Ms. PriyankaAsthana

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Name of Lab :- Database Management System Lab**

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	23	AOC
2	KEYBOARD	10	HP
3	KEYBOARD	4	ASTRUM
4	KEYBOARD	3	LOGITECH
5	KEYBOARD	4	V7
6	KEYBOARD	1	PRODOT
7	KEYBOARD	1	INTEX
8	MOUSE	9	HP
9	MOUSE	4	ASTRUM
10	MOUSE	3	LAPCARE
11	CPU CABINET	23	HP
12	MOUSE	1	FOXIN
13	MOUSE	1	RANAZ
14	MOUSE	1	QUANTAM
15	MOUSE	2	PRODOT
16	MOUSE	1	TECHCOM
17	TABLE	24	NA
18	CHAIR	27	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA
22	FIRE EXTINGUISHER	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Name of Lab :- Compiler Design Lab**

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	23	AOC
2	KEYBOARD	10	HP
3	KEYBOARD	4	ASTRUM
4	KEYBOARD	3	LOGITECH
5	KEYBOARD	4	V7
6	KEYBOARD	1	PRODOT
7	KEYBOARD	1	INTEX
8	MOUSE	9	HP
9	MOUSE	4	ASTRUM
10	MOUSE	3	LAPCARE
11	CPU CABINET	23	HP
12	MOUSE	1	FOXIN
13	MOUSE	1	RANAZ
14	MOUSE	1	QUANTAM
15	MOUSE	2	PRODOT
16	MOUSE	1	TECHCOM
17	TABLE	24	NA
18	CHAIR	27	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA
22	FIRE EXTINGUISHER	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Name of Lab :- Design and Analysis of Algorithm Lab**

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	11	HP
2	MONITOR-LCD	15	AOC
3	KEYBOARD	15	HP
4	KEYBOARD	8	ASTRUM
5	KEYBOARD	3	LOGITECH
6	KEYBOARD	1	TVS
7	MOUSE	16	HP
8	MOUSE	6	ASTRUM
9	MOUSE	4	LOGITECH
10	MOUSE	1	LENOVO
11	CPU CABINET	27	HP
12	HDD	25	160GB
13	HDD	2	500GB
14	RAM	20	2GB
15	RAM	5	1GB
16	TABLE	27	NA
17	CHAIR	31	NA
18	PROJECTOR	1	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Name of Lab :- Artificial Intelligence Lab

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	11	HP
2	MONITOR-LCD	15	AOC
3	KEYBOARD	15	HP
4	KEYBOARD	8	ASTRUM
5	KEYBOARD	3	LOGITECH
6	KEYBOARD	1	TVS
7	MOUSE	16	HP
8	MOUSE	6	ASTRUM
9	MOUSE	4	LOGITECH
10	MOUSE	1	LENOVO
11	CPU CABINET	27	HP
12	HDD	25	160GB
13	HDD	2	500GB
14	RAM	20	2GB
15	RAM	5	1GB
16	TABLE	27	NA
17	CHAIR	31	NA
18	PROJECTOR	1	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Name of Lab :- Project Lab**

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	11	HP
2	MONITOR-LCD	15	AOC
3	KEYBOARD	15	HP
4	KEYBOARD	8	ASTRUM
5	KEYBOARD	3	LOGITECH
6	KEYBOARD	1	TVS
7	MOUSE	16	HP
8	MOUSE	6	ASTRUM
9	MOUSE	4	LOGITECH
10	MOUSE	1	LENOVO
11	CPU CABINET	27	HP
12	HDD	25	160GB
13	HDD	2	500GB
14	RAM	20	2GB
15	RAM	5	1GB
16	TABLE	27	NA
17	CHAIR	31	NA
18	PROJECTOR	1	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Name of Lab :- Operating System Lab

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	23	AOC
2	KEYBOARD	10	HP
3	KEYBOARD	4	ASTRUM
4	KEYBOARD	3	LOGITECH
5	KEYBOARD	4	V7
6	KEYBOARD	1	PRODOT
7	KEYBOARD	1	INTEX
8	MOUSE	9	HP
9	MOUSE	4	ASTRUM
10	MOUSE	3	LAPCARE
11	CPU CABINET	23	HP
12	MOUSE	1	FOXIN
13	MOUSE	1	RANAZ
14	MOUSE	1	QUANTAM
15	MOUSE	2	PRODOT
16	MOUSE	1	TECHCOM
17	TABLE	24	NA
18	CHAIR	27	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA
22	FIRE EXTINGUISHER	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Name of Lab :- Software Engineering Lab

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	23	AOC
2	KEYBOARD	10	HP
3	KEYBOARD	4	ASTRUM
4	KEYBOARD	3	LOGITECH
5	KEYBOARD	4	V7
6	KEYBOARD	1	PRODOT
7	KEYBOARD	1	INTEX
8	MOUSE	9	HP
9	MOUSE	4	ASTRUM
10	MOUSE	3	LAPCARE
11	CPU CABINET	23	HP
12	MOUSE	1	FOXIN
13	MOUSE	1	RANAZ
14	MOUSE	1	QUANTAM
15	MOUSE	2	PRODOT
16	MOUSE	1	TECHCOM
17	TABLE	24	NA
18	CHAIR	27	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA
22	FIRE EXTINGUISHER	1	NA



# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Name of Lab :-Web Technology Lab

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	11	HP
2	MONITOR-LCD	15	AOC
3	KEYBOARD	15	HP
4	KEYBOARD	8	ASTRUM
5	KEYBOARD	3	LOGITECH
6	KEYBOARD	1	TVS
7	MOUSE	16	HP
8	MOUSE	6	ASTRUM
9	MOUSE	4	LOGITECH
10	MOUSE	1	LENOVO
11	CPU CABINET	27	HP
12	HDD	25	160GB
13	HDD	2	500GB
14	RAM	20	2GB
15	RAM	5	1GB
16	TABLE	27	NA
17	CHAIR	31	NA
18	PROJECTOR	1	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Name of Lab :-Computer Networks Lab

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	23	AOC
2	KEYBOARD	10	HP
3	KEYBOARD	4	ASTRUM
4	KEYBOARD	3	LOGITECH
5	KEYBOARD	4	V7
6	KEYBOARD	1	PRODOT
7	KEYBOARD	1	INTEX
8	MOUSE	9	HP
9	MOUSE	4	ASTRUM
10	MOUSE	3	LAPCARE
11	CPU CABINET	23	HP
12	MOUSE	1	FOXIN
13	MOUSE	1	RANAZ
14	MOUSE	1	QUANTAM
15	MOUSE	2	PRODOT
16	MOUSE	1	TECHCOM
17	TABLE	24	NA
18	CHAIR	27	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA
22	FIRE EXTINGUISHER	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Name of Lab :-Foundation of computer Science Lab

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	23	AOC
2	KEYBOARD	10	HP
3	KEYBOARD	4	ASTRUM
4	KEYBOARD	3	LOGITECH
5	KEYBOARD	4	V7
6	KEYBOARD	1	PRODOT
7	KEYBOARD	1	INTEX
8	MOUSE	9	HP
9	MOUSE	4	ASTRUM
10	MOUSE	3	LAPCARE
11	CPU CABINET	23	HP
12	MOUSE	1	FOXIN
13	MOUSE	1	RANAZ
14	MOUSE	1	QUANTAM
15	MOUSE	2	PRODOT
16	MOUSE	1	TECHCOM
17	TABLE	24	NA
18	CHAIR	27	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA
22	FIRE EXTINGUISHER	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Name of Lab :-Advanced Algorithm Lab**

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	11	HP
2	MONITOR-LCD	15	AOC
3	KEYBOARD	15	HP
4	KEYBOARD	8	ASTRUM
5	KEYBOARD	3	LOGITECH
6	KEYBOARD	1	TVS
7	MOUSE	16	HP
8	MOUSE	6	ASTRUM
9	MOUSE	4	LOGITECH
10	MOUSE	1	LENOVO
11	CPU CABINET	27	HP
12	HDD	25	160GB
13	HDD	2	500GB
14	RAM	20	2GB
15	RAM	5	1GB
16	TABLE	27	NA
17	CHAIR	31	NA
18	PROJECTOR	1	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA

# **ESHAN COLLEGE OF ENGINEERING, MATHURA**

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## **DEPARTMENT OF APPLIED SCIENCES**

### **List of Labs with Lab Incharge**

<b>S.No.</b>	<b>Laboratory Name</b>	<b>Lab Incharge Name</b>
<b>1</b>	ENGINEERING PHYSICS	DR. KISHAN PAL SINGH
<b>2</b>	ENGINEERING CHEMISTRY	MR. M.K. MISHRA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF APPLIED SCIENCES

### LAB- CHEMISTRY LAB

S.NO.	NAME OF EQUIPMENT	QTY. in NOS	COMPANY
1	BEAKER-2000 ML	11	BOROSIL
2	BEAKER 250 ML	19	BOROSIL
3	BEAKER 500 ML	4	BOROSIL
4	REAGENT BOTTLE 25 ML	10	BOROSIL
5	REAGENT BOTTLE 125 ML	60	BOROSIL
6	REAGENT BOTTLE 250 ML NARROW MOUTH	80	BOROSIL
7	REAGENT BOTTLE 250 ML SMALL MOUTH	48	RIVIREA
8	REAGENT BOTTLE 250 ML WIDE MOUTH	57	RIVIREA
9	FLATE BOTTAM FLASK	4	RIVIREA
10	ROUND BOTTAM FLASK	4	RIVIREA
11	CONICAL FLASK	28	RIVIREA
12	VOLUMETRIC FLASK	5	BOROSIL
13	FUNNEL	30	BOROSIL
14	MEASURING CYLINDER 5 ML	5	BOROSIL
15	MEASURING CYLINDER 10 ML	3	BOROSIL
16	MEASURING CYLINDER 25 ML	3	BOROSIL
17	MEASURING CYLINDER 100 ML	2	BOROSIL
18	MEASURING CYLINDER 250 ML	4	BOROSIL
19	MEASURING CYLINDER 500 ML	1	BOROSIL
20	MEASURING CYLINDER 1000 ML	2	
21	GLASS ROD	12	
22	SPIRIT LAMP	6	
23	IGNITION TUBE	1 GROSS	
24	TEST TUBE	40	BOROSIL
25	TEST TUBE HOLDER	5	
26	TEAT TUBE STAND	10	

<b>27</b>	<b>TEST TUBE WASH BRUSH</b>	<b>21</b>	
<b>28</b>	<b>TONGS</b>	<b>18</b>	
<b>29</b>	<b>DROPPER</b>	<b>20</b>	
<b>30</b>	<b>TRIPOD STAND</b>	<b>19</b>	
<b>31</b>	<b>WIRE GAUGE</b>	<b>20</b>	
<b>32</b>	<b>FILTER PAPER</b>	<b>1. PKT</b>	
<b>33</b>	<b>WAT MAN FILTER PAPER NO.44</b>	<b>1. PKT</b>	
<b>34</b>	<b>LITMUS PAPER RED &amp; BLUE</b>	<b>1. PKT</b>	
<b>35</b>	<b>LABEL BOOK</b>	<b>2</b>	
<b>36</b>	<b>COPPER METAL</b>	<b>100 GRM</b>	
<b>37</b>	<b>WHINCHESTER BOTTLE</b>	<b>14</b>	
<b>38</b>	<b>PIPPETE 10 ML</b>	<b>17</b>	<b>BOROSIL</b>
<b>39</b>	<b>PIPPETE 25 ML</b>	<b>21</b>	<b>BOROSIL</b>
<b>40</b>	<b>BURETTE 50 ML</b>	<b>16</b>	<b>BOROSIL</b>
<b>41</b>	<b>BURETTE STAND</b>	<b>15</b>	<b>BOROSIL</b>
<b>42</b>	<b>ELECTRONIC CHEMICAL BALANCE</b>	<b>1</b>	
<b>43</b>	<b>MANUAL BALANCE MACHINE</b>	<b>1</b>	
<b>44</b>	<b>CHEMICAL BALANCE BOX</b>	<b>5</b>	
<b>45</b>	<b>CHINA DISH</b>	<b>13</b>	
<b>46</b>	<b>CRUCIBLE</b>	<b>2</b>	
<b>47</b>	<b>WATCH GLASS</b>	<b>1PKT</b>	
<b>48</b>	<b>OSTWARD VISCOMETER</b>	<b>10</b>	
<b>49</b>	<b>STALAGMOMETER</b>	<b>15</b>	
<b>50</b>	<b>HOT OVEN</b>	<b>1</b>	
<b>51</b>	<b>HOT PLATE</b>	<b>1</b>	
<b>52</b>	<b>WATER BATH</b>	<b>1</b>	
<b>53</b>	<b>MAGNETIC STIRER</b>	<b>1</b>	
<b>54</b>	<b>WATER STORED BOTTLE 20 LTR.</b>	<b>4</b>	
<b>55</b>	<b>SPATULA</b>	<b>15</b>	
<b>56</b>	<b>LAMP</b>	<b>6</b>	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF APPLIED SCIENCES

### LAB- CHEMISTRY LAB

S.NO.	NAME OF CHEMICALS	QUANTITY in gm	QTY. IN BOX	COMPANY
1	POTASSIUM NITRATE	400 gm	1	
2	POTASSIUM DICHROMATE	300 gm	1	
3	POTASSIUM BROMIDE	300 gm & 500 gm	2	
4	MERCURIC CHLORIDE	150 gm	1	
5	POTASSIUM FERRICYANIDE	100	1	
6	MAGNESIUM HEPTAHYDRATE	400	1	
7	MANGANESE DIOXIDE	500 gm + 500 gm + 400 gm	3	
8	LEAD OXIDE	450	1	
9	LEAD ACETATE	250	1	
10	COPPER TURNING	100	1	
11	PHENOLPHTHALEIN	60	1	
12	POTASSIUM CARBONATE	450	1	
13	POTASSIUM HEXACYANOFERRATE TRIHYDRATE	400	1	
14	POTASSIUM PERMANGANATE	420	1	
15	POTASSIUM CHLORIDE	350	1	
16	POTASSIUM CHROMATE	350	1	
17	POTASSIUM THIOCYANATE	400	1	
18	POTASSIUM IODIDE	425	1	
19	SODIUM NITRO PRUSSIDE DI HYDRATE	400	1	
20	SODIUM SULPHITE	100	1	
21	SODIUM NITRATE	300 gm + 500 gm + 500 gm	3	



22	DI- SODIUM HYDOGEN -O-PHOSPHATE DIHYDRATE	420	1	
23	SODIUM HYDROGEN CARBONATE	400 gm + 500 gm	2	
24	SODIUM CARBONATE	350	1	
25	SODIUM HYDOXIDE	300	1	
26	SODIUM THIOSULFATE	310 gm + 500 gm + 500 gm	3	
27	SODIUM CHLORIDE	350	1	
28	METHYL ORANGE	50	1	
29	UREA	100 gm + 500 gm	2	
30	OXALIC ACID	30 gm + 500 gm	2	
31	ZINC DUST	450	1	
32	TIN ( II ) CHLORIDE DIHYDRATE	220	1	
33	ZINC SULFATE	400	1	
34	STARCH	300 gm + 400 gm	2	
35	THIO UREA PURE	450	1	
36	AMMONIUM CERIUM NITRATE	90	1	
37	AMMONIUM FERROUS SULFATE	300 gm + 500 gm +500 gm	3	
38	AMMONIUM ACETATE	450	1	
39	AMMONIUM OXILATE	410	1	
40	AMMONIUM CHLORIDE	900 gm	1	
41	AMMONIUM CARBONATE	200	1	
42	ACETAMIDE	420	1	
43	CALCIUM CARBONATE	250 gm + 500 gm	2	
44	ALUMINIUM CHLORIDE	400	1	
45	AMMONIUM BI ORTHOPHOSPHATE	500	1	
46	E.B.T.	5	1	
47	AMMONIUM MOLYBDATE	100	1	
48	AMMONIUM SULPHATE	450	1	
49	CALCIUM HYPOCHLORIDE	400	1	

<b>50</b>	BARIUM CHLORIDE	150	<b>1</b>	
<b>51</b>	BENZOIC ACID	450	<b>1</b>	
<b>52</b>	COBALT II NITRATE HEXAHYDRATE	90 gm + 100 gm	<b>2</b>	
<b>53</b>	COPPER SULPHATE	450 gm + 500 gm	<b>2</b>	
<b>54</b>	BUFFER TABS		<b>2 pkt</b>	
<b>55</b>	CUPRIC SULPHATE	450 gm + 500 gm	<b>2</b>	
<b>56</b>	FERROUS SULPHATE	450	<b>1</b>	
<b>57</b>	FERRIC CHLORIDE	450	<b>1</b>	
<b>58</b>	E.D.T.A.	450	<b>1</b>	
<b>59</b>	CHROMIUM TRI OXIDE	500	<b>1</b>	
<b>60</b>	CALCIUM CHLORIDE	500	<b>1</b>	
<b>61</b>	1-4- DICHLORO BENZENE	300	<b>1</b>	
<b>62</b>	D- GLUCOSE ANHYDRUS	150	<b>1</b>	
<b>63</b>	TOLUENE	450 ml + 500 ml	<b>2</b>	
<b>64</b>	POTASSIUM IODATE	100	<b>1</b>	
<b>65</b>	NAPHTHOL	100	<b>1</b>	
<b>66</b>	SULPHURIC ACID	300 ml	<b>1</b>	
<b>67</b>	SILVER NITRATE	200 ml	<b>1</b>	
<b>68</b>	NITROBENZENE	500 ml	<b>1</b>	
<b>69</b>	PHENOL	450 ml + 500 ml	<b>2</b>	
<b>70</b>	NITRIC ACID	400 ml	<b>1</b>	
<b>71</b>	METHANOL	270 ml	<b>1</b>	
<b>72</b>	SCHIFF REAGENT	500 ml	<b>1</b>	
<b>73</b>	HEXANE	500 ml	<b>1</b>	
<b>74</b>	LIQUOR AMMONIA	200 ml + 500 ml	<b>2</b>	
<b>75</b>	FOLMALDIHYDE SOLUTION	500 ml	<b>1</b>	
<b>76</b>	FEHLING SOLUTION A	300 ml	<b>1</b>	
<b>77</b>	FEHLING SOLUTION B	310 ml	<b>1</b>	
<b>78</b>	HCL	150 ml	<b>1</b>	
<b>79</b>	ETHYL ACETATE	300 ml + 500 ml	<b>2</b>	

<b>80</b>	ETHANOL	100 ml +400 ml	<b>2</b>	
<b>81</b>	CARBON TETRACHLORIDE	500 ml	<b>1</b>	
<b>82</b>	CARBON DI SULPHIDE	500 ml	<b>1</b>	
<b>83</b>	AMMONIUM SULPHIDE	450 ml	<b>1</b>	
<b>84</b>	ACITIC ACID	500 ml	<b>1</b>	
<b>85</b>	LITMUS RED SOLUTION	125+125 ml	<b>2</b>	
<b>86</b>	LITMUS BLUE SOLUTION	125+125 ml	<b>2</b>	
<b>87</b>	ACETIC ACID	150 ml	<b>2</b>	
<b>88</b>	ACETYL CHLORIDE	400 ml	<b>2</b>	
<b>89</b>	ACETONE	450 ml	<b>2</b>	
<b>90</b>	ACETALDIHYDE	500 ml	<b>2</b>	
<b>91</b>	BENZeNE	500 ml	<b>2</b>	
<b>92</b>	ANILINE	420 ml +500 ml	<b>2</b>	FISHER SCIENTIFIC

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF APPLIED SCIENCES

### LAB- CHEMISTRY LAB

S.NO.	USEFUL REQUIREMENTS FOR SAFETY	QNTY
1	APRON	1
2	LONG TONG	1
3	SURGICAL GLOVES	2 NOS.
4	DISPOSAL GLOVES	2 PKT
5	FIRST AID BOX	1 BOX
6	FIRE EXTINGUISHER POWDER CYLINDER	1 CYL
7	EYE PROTECTION GOGGLE	1 NOS
8	SAND BUCKET	2
9	SAFETY CHART INSTRUCTION	1
10	PRACTICAL PERFORMANCE RULES LIST	2
11	SAFETY WATER BUCKET	1
12	DUSTBIN BLUE & GREEN	1+1
13	PRACTICAL EXPERIMENT LIST	1
14	APPARATUS KEEP TABLE	1
15	DESK ( TABLE ) FOR TEACHER	1
16	CHAIR ( WHEELS ) FOR TEACHER	1
17	STOOL ( FOR STUDENTS SITTING )	40
18	NOTICE BOARD	1
19	GREEN BOARD	1
20	BUSTER ( GREEN BOARD )	1
21	CHALKS ( DUSTLESS )	1 BOX

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF APPLIED SCIENCES

### LAB- PHYSICS LAB

S.NO.	NAME OF APPARATUS	QUANTITY in UNITS
1	VOTMETER	5
2	AMETER	5
3	GALVANOMETER	4
4	PRISM	2
5	CONVEX LENS	4
6	CONCAVE LENS	4
7	CONVEX MIRROR	2
8	CONCAVE MIRROR	2
9	DIFFRACTION GRATING PLATE	2
10	LENS HOLDER	2
11	WEIGHT BOX	2
12	RESISTANCE WIRE	1 PKT
13	BIPRISM	2
14	PIN & PIN HOLDER	2+2
15	ADVANCE CONNECTING WIRE	1 PKT
16	COPPER CONNECTING THREAD WIRE	1 PKT
17	TAP KEY	5
18	CIRCULAR KEY	4
19	SHORTS KEY	5
20	METAL BALL	1 PKT
21	BOB	1
22	HOOK	3
23	WEIGHT FOR HOOKS	10+10 gm
24	MAGNIFIER LENS	2

25	STOP WATCH	2
26	SCREW GAUGE	5
27	VERNIER CALIPER	7
28	SPHEROMETER	4
29	ANEMOMETER	1
30	TUNING FORKS	5
31	RUBBER PAD	1
32	LED TORCH	4
33	SMALL COMPASS	4
34	MIC	1
35	CIRCULAR TAP KEY	4
36	JOCKEY	4
37	BULB HOLDER	3
38	BEAKER 100 ML	5
39	PLASTIC BEAKER 100 ML	2
40	MULTIMETER	1
41	COPPER SULPHATE	1
42	AMMONIUM CHLORIDE	1
43	ZINC ROD	1
44	SODIUM VAPOUR LAMP TRANSFORMER	4
45	BATTERY ELEMINATOR 2 V	5
46	ELECTRONIC STANDARD CELL	2
47	REHOSTATE LARGE	2
48	REHOSTATE SMALL	5
49	D.C. POWER SUPPLIER	2
50	FUNNEL	5
51	GYLCERINE	2 LTR
52	METER SCALE PLASTIC	2
53	METER SCALE WOOD	2
54	LARGE COMPASS	2
55	POTENTIOMETER (CALIBRATION OF VOLMETER & AMETER )	1

56	CAREY FOSTER BRIDGE SCALE	2
57	HOOKS LAW STAND	1
58	SPRING	1
59	ENERGY BAND GAPE APPARATUS	1
60	TELESCOPE	1
61	TELESCOPE STAND	1
62	RESONANCE TUBE	1
63	SURYA MAPI	1
64	PN JUNCTION APPARATUS	1
65	INCLINED PLANE SURFACE	1
66	SMALL MICROSCOPE	2
67	COEFFICIENT OF VISCOSITY APPARATUS	2
68	10 MTR WIRE STAND WOOD PLATE	1
69	LEA CONDUCTIVITY APPARATUS	1
70	SEARLE CONDUCTIVITY APPARATUS	1
71	WATER BOTTLE 5 LTR	2
72	NODAL SLIDE APPARATUS	2
73	OPTICAL BENCH	4
74	HALF SHADE POLARIMETER APPARATUS	2
75	SPECTROMETER APPARATUS	2
76	NEWTON RING APPARATUS	2
77	FRESNAL BIPRISM APPARATUS	1
78	SODIUM LAMP	5
79	MERCURY LAMP	1
80	BULB 100 WATT	2
81	DECADE RESISTANCE BOX	1
82	B.H. CURVE APPARATUS	1
83	FUNCTION GENERATOR	1
84	C.R.O.	1
85	MAGNETIC FLUX APPARATUS	2
86	RESISTANCE BOX	2

<b>87</b>	<b>FIRST AID BOX</b>	<b>1 BOX</b>
<b>88</b>	<b>FIRE EXTINGUISHER POWDER CYLINDER</b>	<b>1 CYL</b>
<b>89</b>	<b>EYE PROTECTION GOGGLE</b>	<b>1 NOS</b>
<b>90</b>	<b>SAFETY CHART INSTRUCTION</b>	<b>1</b>
<b>91</b>	<b>PRACTICAL PERFORMANCE RULES LIST</b>	<b>2</b>
<b>92</b>	<b>DUSTBIN BLUE &amp; GREEN</b>	<b>1+1</b>
<b>93</b>	<b>PRACTICAL EXPERIMENT LIST</b>	<b>1</b>
<b>94</b>	<b>APPARATUS KEEP TABLE</b>	<b>12</b>
<b>95</b>	<b>DESK ( TABLE ) FOR TEACHER</b>	<b>1</b>
<b>96</b>	<b>CHAIR ( WHEELS ) FOR TEACHER</b>	<b>1</b>
<b>97</b>	<b>STOOL ( FOR STUDENTS SITTING )</b>	<b>40</b>
<b>98</b>	<b>NOTICE BOARD</b>	<b>1</b>
<b>99</b>	<b>GREEN BOARD</b>	<b>1</b>
<b>100</b>	<b>BUSTER ( GREEN BOARD )</b>	<b>1</b>
<b>101</b>	<b>CHALKS ( DUSTLESS )</b>	<b>1 BOX</b>
<b>102</b>	<b>STUDENTS DESK</b>	<b>4</b>
<b>103</b>	<b>FAN</b>	<b>5</b>
<b>104</b>	<b>LED LIGHT</b>	<b>5</b>
<b>105</b>	<b>ALMIRAH ( STORED APPARATUS)</b>	<b>1</b>
<b>106</b>	<b>BLACK DARK ROOM</b>	<b>1</b>
<b>107</b>	<b>CURRENT EXTENSION BOARD</b>	<b>2</b>
<b>108</b>	<b>SWITCH BOARD ( FITTED IN DESK )</b>	<b>15</b>
<b>109</b>	<b>SWITCH BOARD ( FITTED IN WALL )</b>	<b>8</b>
<b>110</b>	<b>WINDOW</b>	<b>3</b>
<b>111</b>	<b>MAIN DOOR</b>	<b>1</b>



# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF APPLIED SCIENCES

### LAB- PHYSICS LAB

S.NO.	NAME OF APPARATUS	QUANTITY in UNITS	
1	FIRST AID BOX	1 BOX	
2	FIRE EXTINGUISHER POWDER CYLINDER	1 CYL	
3	EYE PROTECTION GOGGLE	1 NOS	
4	SAFETY CHART INSTRUCTION	1	CHART
5	PRACTICAL PERFORMANCE RULES LIST	2	CHART
6	DUSTBIN BLUE & GREEN	1+1	
7	PRACTICAL EXPERIMENT LIST	1	
8	APPARATUS KEEP TABLE	12	
9	DESK ( TABLE ) FOR TEACHER	1	
10	CHAIR ( WHEELS ) FOR TEACHER	1	
11	STOOL ( FOR STUDENTS SITTING )	40	
12	NOTICE BOARD	1	
13	GREEN BOARD	1	
14	BUSTER ( GREEN BOARD )	1	
15	CHALKS ( DUSTLESS )	1 BOX	
16	STUDENTS DESK	4	
17	FAN	5	
18	LED LIGHT	5	
19	ALMIRAH ( STORED APPARATUS)	1	
20	BLACK DARK ROOM	1	
21	CURRENT EXTENSION BOARD	2	
22	SWITCH BOARD ( FITTED IN DESK )	15	
23	SWITCH BOARD ( FITTED IN WALL )	8	
24	WINDOW	3	
25	MAIN DOOR	1	
26			

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

### List of Labs with Lab Incharge

S.No.	Laboratory Name	Lab Incharge Name
1	BEE LAB	Kuldeep singh
2	Electronics Lab	Anuradha Gupta
3	Electrical Workshop Lab	GAURAV SHARMA
4	Electrical Machines-I LAB	ASHISH GUPTA
5	Electrical Machines-II LAB	Kuldeep singh
6	IOT Lab	ASHISH GUPTA
7	PLC LAB	Neetu Rani
8	Microprocessor Lab	Anuradha Gupta
9	PCB Lab	Anuradha Gupta
10	Power electronics and measurment Lab	GAURAV SHARMA
11	Project -I	Kuldeep singh
12	Project - II	R S Pathak

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Name of Lab:** BEE Lab

S.No.	Name of Equipment	Quantity	Make/company
1	1- $\phi$ Transformer-scot connection Panel	1	Tech Track
2	1- $\phi$ Transformer 220 V,1 KVA	2	
3	3- $\phi$ Auto-Transformer, Variable	1	
4	1- $\phi$ Resistive load	1	
5	Panel for measurment of 3- $\phi$ Power by 2 wattmeter method	1	Tech Track
6	Wattmeter 0.5A,150/300/600V	2	
7	Panel for running & reversing of 3- $\phi$ Induction Motor.	1	Tech Track
8	3- $\phi$ Induction Motor,1500 rpm	1	
9	Load test on 3- $\phi$ Induction Motor panel	1	
10	3- $\phi$ Induction Motor, 440V with Belt load	1	
11	Watt meter,5/10A,150/300/600V	2	
12	Panel for calibration of 1- $\phi$ energy meter	1	Tech Track
13	1- $\phi$ Auto-Transformer, Variable	1	
14	Watt meter,5/10A,250/500V	1	
15	Measurment Power and P.Factor in a single phase AC. Series Inductive Circuit & study improvement Of P.F using capacitor	1	
16	Watt meter,5/10A,75/150/300V	1	
17	Volt meter,AC/DC (0-600)v,(0-300)V	1	
18	S.C.R 3- $\phi$	1	
19	Panel for ratio and polarity & load test on 1- $\phi$ Transformer	1	Tech Track
20	1- $\phi$ Transformer,1 KVA 220V/2020V	1	
21	Watt meter,5/10A,75/150/300V	2	
22	Panel for Voltage and current relation in star and delta connection	1	

23	1- $\phi$ Resistive load	1	
24	Panel for speed control of DC Shunt Motor	1	Tech Track
25	DC shunt Motor 220V,1500rpm,3 HP shunt Wound	1	Tech Track
26	Rheostate 1.2A/290 $\Omega$	1	
27	Panel for speed /torque characteristics of DC shunt Motor	1	Tech Track
28	DC Shunt Motor 220V,1500rpm,3 HP shunt with belt load	1	Tech Track
29	Rheostate 1.2A/290 $\Omega$	1	
30	Speed torque charcterstics& efficiency of DC shunt motor	1	Sun Lab Equipment P.Ltd
31	DC shunt Motor 220V,1500 rpm, 3HP	1	
32	Rheostate 1.4A/260 $\Omega$	1	
33	Deep trainer kits and equipments work board with power supply	1+1	D.T.I
34	Study of Thevenin's theorem	1	Crown
35	Study of Kirchhoff's voltage and current law	1	Crown
36	Measurement of temperature by RTD transducer	1	Siba
37	Ammeter AC/DC (0-5A)/(0-10A)	1	
38	Synchro transmitter receiver	1	CLACS
39	Ammeter AC/DC (0-1A)/(0-2A)	1+1 DC	
40	Speed torque charcterstics of AC servo motor	1	CLACS
41	B.H curve apparatus	1	SEI India
42	C.R.O	1	Easy scope
43	Study of superposition theorem	1	Crown
44	Volt meter,AC/DC (0-600)V/(0-300)V	1	
45	Study of LCR Resonance Apparatus	1	Crown
46	voltmeter DC.(0-150)V/(0-300)V	1	
47	1 MHz function generator model FGI MD	1	Ap Lab
48	Auto transformer Variable (0-220V)/(220-0)V	1	Power Star
49	Temperature system simulator with oven	1	CL-TSS
50	72V,10amp Battery Charger	1	modern
51	Panel for relationship between voltage and current for RL series circuit	1	

52	Power factor meter(Cos $\phi$ )	1	
53	wattmeter 1.2A,75/150/300V	1	
54	study of Max.Power transfer theorem	1	Crown
55	Theorem's and lows trainer-III,KMS-203	1	
56	Passive filter-II Trainer,KMS208	1	
57	Theorem's and lows trainer-I,ST 9301	1	Salicon
58	Theorem's and lows trainer-II	1	salicon basic electronics trainer
59	C.R.O 20 Mhz Dual Trace oscilloscope	1	AP Lab
60	C.R.O 20 Mhz oscilloscope	1	Sciencetech
61	Rheostate 148 $\Omega$ ,1amp	1	Crown
62	Passive filter-II Trainer,ST 9306	1	Salicon
63	4 *1/2 Digit true rms Digital Multimeter Model 1085	1	AP Lab
64	Magnetic amplifier	1	Mars
65	B-H curve Apparatus ME-566	1	Mars
66	DC speed controller with DC Motor	1	Vinyties
67	PID Controller	1	Vinyties
68	Liner system simulator ME-1126	1	Mars
69	C.R.O Dual Trace oscilloscope 3702	1	Ap Lab
70	AC Motor Position Controller	1	CL-ACM Vinyties
71	1 MHz function generator model FG-1MD	1	Ap Lab
72	Compensation Design system	1	CL-CDS Vinyties
73	Wattmeter 1.2A,75/150/300V, scale(0-15)watts	1	
74	XPO-86	1	Ansuman Tech Pvt Ltd
75	Rheostate 5A/50 $\Omega$	1	
76	Rheostate 3A/250 $\Omega$	1	
77	Operational Amplifier Trainer	1	DTI
78	Discreted Component kit	1	DTI
79	Operational Amplifier Trainer	1	Deep trainer kits and instruments
80	Discreted Component kit	1	Deep trainer kits and instruments

<b>81</b>	Discreated Component kit	1	Deep trainer kits and instruments
<b>82</b>	Operational Amplifier Trainer	1	Deep trainer kits and instruments
<b>83</b>	DC Position controller with Motor unit	1	CL-DCM
<b>84</b>	Rheostate 5A/50Ω	1	
<b>85</b>	Digital Techometer	7	Systems
<b>86</b>	Multimeter	7	Unit-T
<b>87</b>	Multimeter	1	Mastech
<b>88</b>	Multimeter	1	AP Lab
<b>89</b>	Ohm meter 500V,1 MΩ	1	krisons
<b>90</b>	Ohm meter 1000V/200 MΩ	1	NSI
<b>91</b>	Panel Table	9	
<b>92</b>	Center Table	3	
<b>93</b>	Almirah	2	
<b>94</b>	Bag Rack	1	
<b>95</b>	stool	33	
<b>96</b>	Chair	12	
<b>97</b>	Faculty Table	1	
<b>98</b>	Faculty Chair	2	
<b>99</b>	fan	8	
<b>100</b>	Tube Light	5	
<b>101</b>	Green board	1	
<b>102</b>	Dustbin	1	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Name Of Lab: Digital Electronics Lab (Non Consumable)

S.No.	Name of Equipment	Quantity	Make/Company
1	Digital Trainer Kit	2	Deep Trainer
2	3 Bit SIPO, SISO, PIPO, PISO Shift Register	1	Salicon
3	Digital Trainer Kit	1	Theeta
4	Decimal to BCD Converter	1	Salicon
5	Bread- Board with Power Supply Work board	3	Salicon
6	Clock Generator Trainer	1	Excel Technologies
7	ALU Trainer Kit	1	Salicon
8	Flip- Flop Trainer	3	Salicon
9	Modulo Counter using 74190	1	Excel Technologies
10	Demultiplexer/ Decoder Trainer	1	Excel Technologies
11	Logic Trainer with Bread- Board	1	Salicon
12	D/ A Converter	1	Salicon
13	Decoder & Multiplexer Trainer	1	Salicon
14	4- Bit Binary adder/Subtractor	1	Excel Technologies
15	Universal IC Tester	1	DICT-02
16	3- Pin Power Chord	5	----

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Name Of Lab: Electrical Workshop Lab(KEE-353) Non Consumable

S.No.	Accessories	Quantity	Make/Company
1	Screw Driver(Yellow)	5	VTR(E-508)
2	Screw Driver(Blue Small)	4	SEIKO(786)
3	Screw Driver(Red)	3	SEIKO(456)
4	Screw Driver(Blue Big)	4	SEIKO(787)
5	Plaier(Red)	1	RADIANT
6	Plaier(Blue)	8	Metro
7	Plaier(Blue)	1	Marc(xxx)
8	Plaier(Red)	1	N.D(Not Defined)
9	Choke(Copper Ballast)	2	Havells Ind Ltd
10	Measuring Tape	2	Arrow-16(3.0m)
11	Cutter	5+2(Broken)	Infinity
12	Auto Transformer	1	(240v,50HZ,2A)
13	Battery	2	9V
14	Battery	1	SUNCAK MAX RB640CS(6v,4.5Ah)
15	Battery	1	Vision CP 1270E(12v,7Ah)
16	Hammer	5	N.D(Not Defined)
17	Wooden Hammer	2	N.D(Not Defined)
18	File(Big Size)	2	N.D(Not Defined)
19	Rip Saw	1	N.D(Not Defined)
20	Hack Saw	2	N.D(Not Defined)
21	Hand drill machine	1	N.D(Not Defined)
22	Twisted metal driller	1	N.D(Not Defined)
23	Triangular File	1	N.D(Not Defined)
24	Changeover Switch	1	Havells Ind Ltd(32A)



<b>25</b>	Circular File	1	N.D(Not Defined)
<b>26</b>	Rectangular File	1	N.D(Not Defined)
<b>27</b>	Semi Circular File	1	N.D(Not Defined)
<b>28</b>	Condenser	2	Havells Ind Ltd
<b>29</b>	Electronic Ignitor	1	Havells Ind Ltd(HNM07000D99)
<b>30</b>	Testor	1	N.D(Not Defined)
<b>31</b>	Table(Big Size)	6	N.D(Not Defined)
<b>32</b>	Table(Small Size)	3	N.D(Not Defined)
<b>33</b>	Chair	2	N.D(Not Defined)
<b>34</b>	Stool(Small Size)	27	N.D(Not Defined)
<b>35</b>	Stool(Big Size)	1	N.D(Not Defined)
<b>36</b>	Ceiling Fan	3	N.D(Not Defined)
<b>37</b>	Tube Light	1+3(not connected)	N.D(Not Defined)

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Name of Lab:** Electrical Machine Lab-I

S.No.	Name of Equipment	Quantity	Make/company
1	Panel for start and run 3- $\phi$ induction motor	1	
2	3- $\phi$ I.M,1 HP,1440 rpm,415V	1	Teck Track
3	panel for speed control of 3- $\phi$ I.M v/f methods	1	
4	3- $\phi$ I.M,1 HP,415V	1	Teck Track
5	Panel for no load & block rotor test on 3- $\phi$ induction motor	1	
6	3- $\phi$ I.M,415V,2 HP, with belt load	1	Teck Track
7	Watt meter,EPL 2.5/5A/,150/300/600V	1	
8	Watt meter,EPL 2.5/5A/,150/300/600V	1	
9	Panel for load test on 3- $\phi$ induction motor	1	
10	3- $\phi$ I.M,415V,2 HP, with belt load	1	Teck Track
11	Panel for no load & block rotor test on 1- $\phi$ induction motor	1	
12	1- $\phi$ I.M,1 HP,1440 rpm,230V	1	Gemi Motors
13	Panel for speed control of DC shunt Motor	1	
14	DC shunt motor 1500 rpm 3HP,230V	1	Teck Track
15	Panel for Magnetization characteristics of DC shunt gen	1	
16	DC shunt motor 3 HP, 1500 rpm	1	Teck Track
17	DC shunt gen 3KVA 1500 rpm	1	
18	Rheostate 2Amp, 290 $\Omega$	1	
19	Panel for Magnetization characteristics of DC compound gen	1	
20	DC Machine,Dc compound gen,1500 rpm,3Kva	1	Teck Track
21	DC shunt Motor,230V, 1500 rpm,3 HP	1	
22	Rheostate ,1.2Amp, 290 $\Omega$	1	
23	3- $\phi$ SCR	1	
24	Panel for Magnetization characteristics of DC shunt gen	1	

25	DC shunt motor 1500 rpm 3HP,230V		Teck Track
26	DC shunt gen 3KVA 1500 rpm		
27	Panel for Hopkinson's test of DC shunt Machine	1	
28	DC shunt Motor,230V, 1500 rpm,3 HP	1	Teck Track
29	DC shunt Motor,230V, 1500 rpm,3 HP	1	
30	3-φ Transformer Panel	1	
31	Panel for swinburn's test on DC shunt Motor	1	
32	DC shunt Motor,230V, 1500 rpm,3 HP	1	Teck Track
33	Rheostate ,1Amp, 500Ω	1	
34	Rheostate ,1.7Amp, 300Ω	1	
35	3-φ Resistive load	1	
36	3-φ Transformer, 400V,1KVA	1	
37	Panel for Ratio and Polarity test on 3-φ Transformer	1	
38	Panel for Ratio and Polarity test on 1-φ Transformer	1	
39	1-φ Transformer ,1KVA,220V	1	Teck Track
40	1-φ auto Transformer 220v (Variable)	1	Mars Me 2300
41	Watt meter,5/10A,75/150/300V	1	
42	Panel Table	10	
43	Faculty Table	1	
44	Faculty Chair	1	
45	Plastic Chair	3	
46	wooden Chair	1	
47	Almirah	1	
48	bag rack almirah	1	
49	stool	30	
50	White board	1	
51	fan	2	
52	Tube Light	2	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Name of Lab:** Electrical Machine Lab-II

S.No.	Name of Equipment	Quantity	Make/company
1	Fault Locating in cable by murray loop test Kit	1	Rajat
2	Mosfet based Choper motor controller Panel	1	Rajat
3	Panel for I.D.M.T over current Relay	1	Rajat
4	Test oil Transformer	1	
5	Panel for performance of long transmission line under different load (Ferrenti Effect)	1	Rajat
6	Panel for speed Torque characterstics of DC series Motor	1	Rajat
7	DC series m/c 2 HP,1900 rpm,250v	1	Rajat
8	Balance Load	1 set	Rajat
9	Panel for Magnetization characterstics of DC shunt generator	1	PE
10	1- $\phi$ Resistive load	1	
11	Rheostate 17A,300 $\Omega$	2	
12	DC machine(motor+ gen)set ,250V DC,1500 rpm,2HP, 1KVA	1+1 Set	Rajat
13	Panel for O.C & S.C Test on 3- $\phi$ AC. Gen	1	
14	(Gen+motor set) Motor-1500rpm,2 HP 250 V, Gen- 1KV,1500 rpm,250V	1+1 set	Rajat
15	3- $\phi$ lamp Load	1	
16	Rheostate 1.4 A,260 $\Omega$	1	
17	Panel for Xd & Xq of synchronous machine by slip test	1	Rajat
18	Amp meter DC(0-4.8 amp),(0-2.4 amp)	1	
19	Rheostate 5A,50 $\Omega$	1	
20	3- $\phi$ Auto Transformer ILE Paravolt	1	Interlink Electronics Delhi
21	DC machine(motor+ gen)set, Motor- 3HP,1500 rpm,250V. Shunt wound motor, Alternator-2KVA,1500 rpm.	1+1 set	Rajat
22	Connection study of various measuring instruments with load		
23	Rheostate 1.1 Amp, 800 $\Omega$	1	
24	Rheostate 5amp,45 $\Omega$	1	
25	Panel for A.C Synchronous motor Mechanical loading	1	Rajat

26	Auto synchronous Motor 3HP,1500 rpm.	(1+1)set	Rajat
27	Direct current Exciter,230v,1500 rpm		
28	Rheostate 1.1 Amp, 800Ω	1	
29	DC Motor speed control demonstration unit	1	Rajat
30	DC machine: Motor,1500rpm , 1HP, Shunt wound	1	Rajat
31	Microcontroller based speed control of single phase Induction motor	1	Rajat
32	Panel for working model of 3-φ star/delta starter	1	Rajat
33	DC Machine: Motor,1500rpm , 1HP, Shunt type	1	Rajat
34	Panel for study of single phase half controlled bridge converter	1	Rajat
35	Induction Motor HP-0.5,1420 rpm,230V	1	Rajat
36	Panel for sequential operation of motor using timer	1	Rajat
37	Motors: 3-φ Induction Motor,HP-0.5,1440 rpm,415V	3	Rajat
38	Study of single phase fully controlled bridge converter.	1	Rajat
39	DC Machines: Motor-1HP,220V,1500rpm Shunt Wound	1	Rajat
40	Panel for load test on 3-φ slip Ring Induction Motor	1	Rajat
41	3-φ Induction Motor 1HP,1440 rpm with spring baknr load	1	Rajat
42	Watt Meter: (i)5/10A,250/500V (ii)Wattmeter 5/10A,150/300/600V	1+1	
43	Digital Techometer systems HTM590	1	
44	CRO	1	Salicon
45	Wattmeter 0.5A,150/300/600V	1	Mecog
46	Clamp multimeter	1	Haoyue
47	Multimeter VC-97	1	AP Lab
48	Panel Table	10	
49	Faculty Table	1	
50	Faculty Chair	1	
51	Plastic Chair	1	
52	Almirah	1	
53	stool	30	
54	fan	2	
55	Tube Light	3	
56	Green board	1	
57	Dustbin		

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Name of Lab: Electronics Lab (Non Consumable)

S.No.	Name of Equipment	Quantity	Make/Company
1	Diode characterstic Kit	1	Salicon
2	Diode charachterstic Kit	1	Excel technologies
3	semiconductor Diode characterstic kit	1	Lab electronics
4	CRO -20 MHz dual trace	4	Aplab
5	CRO -30 MHz dual trace	1	Salicon
6	CRO -20 MHz dual trace tranter with DNM	1	Aplab
7	Digital storega oscilloscope,60 MHz	1	Aplab
8	Haff wave/full ware /brige rectifier kit	1	Excel technologies
9	Rectifier trainer kit	2	Salicon
10	Function generator 1MHz	6	Aplab
11	Function generator	1	Salicon
12	Function generator 1MHz	1	Sciencetech
13	Clipper - clampers / voltage doubler	1	Excel technologies
14	Power supply 0-30 volt ,2A	2	Sciencetech
15	DC regulated power supply dual output 0-30 v/0-2A	1	Mars
16	DC ragulated power supply trainer	1	Mars
17	Zener diode charchterstic kit	2	Excel technologies
18	1/2 digit true RMS digital multimeter	1	Aplab
19	Digital multimeter (VC 97)	1	Mars
20	Digital multimeter ( ST 96)	1	Salicon
21	Digital multimeter (ST 82)	1	Salicon
22	Digital multimeter (MAS 830L)	1	Mastech
23	Digital multimeter (VC 97)	7	Aplab
24	Digital multimeter (MAS 830L)	1	HAOYOE

25	BJT characteristics kit	1	Lab electronics
26	Characteristic of transistor	1	Excel technologies
27	Transistor amplifier circuits	1	Lab electronics
28	Frequency counter	1	Salicon
29	F.E.T characteristics kit	1	Excel technologies
30	F.E.T amplifier kit	1	Lab electronics
31	Distortion meter	1	Scientific
32	Digital transistor tester	1	Falcon
33	Analog multimeter	1	SANYO
34	AC moving coil ammeter	2	MR-80
35	AC moving coil voltmeter	1	EDM-80
36	DC moving coil ammeter	2	MR-80
37	DC moving coil voltmeter	1	EDM-80
38	Study of semi conductor diode voltmeter or average responding	1	Salicon
39	Monostable multi vibrator trainer	1	Excel technologies
40	Biasing techniques of transistor	1	SEI India
41	555 Application trainer	1	Salicon
42	Transfer characteristics of CMOS inverter	1	Excel technologies
43	OP-Amp amplifier characteristics	1	Lab electronics
44	Summer/Subtractor/Integrator/Differentiator	1	Lab electronics
45	OP-Amp Comprator - schmitt trigger	1	Excel technologies
46	OP-Amp Application trainer	1	Salicon
47	Voltage regulation using IC -317	1	SEI India
48	DC soldering pump	1	Univolt
49	Soldering iron(35 watt)	4	-
50	3PIN - Power chord	10	-
51	CRO Probes	10	-
52	Multimeter connecting leads	20	-

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Lab Name:- IOT Lab**

S.No.	Name of Equipment	Quantity	Make/Company
1	Raspberry pi 4 (4GB RAM)	1	Raspberry pi foundation U.K.
2	OLED SH1106	1	Generic
3	Load Sensor	2	Generic
4	Buzzer-5V	4	Generic
5	Buzzer-9V	4	Generic
6	Bluetooth Module	2	Generic
7	HX711 Load Cell Amplifier Module	2	Probots Techno Solution
8	GPS Module	1	Generic
9	LED Sensor	25	Electrobot
10	ESP8266 Wifi Module	1	Generic
11	REE552 Ethernet Module	1	Generic
12	Relay Module-I Type	1	Electronic Spices
13	Relay Module-II Type	1	Electronic Spices
14	Relay Module-IV Type	1	Electronic Spices
15	LM 98 Motor Driver Module	2	Generic
16	IR Module	4	Robotbanao
17	DHT Module	2	Robotbanao
18	LDR Module	4	Auslese
19	Vibration Module	3	Invento
20	Sound Module	3	Robotbanao
21	Pressure Module	3	A2Z Quality
22	Solenoid Valve	1	Generic
23	Linear Actuator 12V	1	Generic
24	Servo Motor	5	Super Debug



<b>25</b>	LED (16*2) Display	1	Silicon Techno Labs
<b>26</b>	Push Button	20	Electronic Pices
<b>27</b>	LED	50	D'Mark
<b>28</b>	Bread Board	9	Generic
<b>29</b>	ESP32	1	Easy Electronics
<b>30</b>	Node MCU 8266	2	Jacobs Parts
<b>31</b>	Arduino Uno	4	Spark lebox
<b>32</b>	Jumper Wires	50	Sparkle box
<b>33</b>	Ultrasonic Sensor	1	REE 552
<b>34</b>	Charger (5V)	1	Electronics spices
<b>35</b>	Charger (9V)	1	Aptech Deals
<b>36</b>	Resistance	50	Electronics spices
<b>37</b>	Soldering Iron	1	Generic
<b>38</b>	Glue Gun	1	Erh India
<b>39</b>	Digital Multimeter	1	Elough
<b>40</b>	Skrewer Driver	7	Spartan
<b>41</b>	Wire Cutter	1	Spartan
<b>42</b>	Plier	1	Kaltron

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Name of Lab: Microprocessor Lab (Non Consumable )

S.No.	Name of Equipment	Quantity	Make/Company
1	8085 Kit	1	Salicon
2	8085 Kits	7	Anshuman Tech PVT LTD
3	8085 Kits with inbuilt power supply	1	Salicon
4	8086 /8088 Micro processor trainer Kit	1	Salicon
5	8086 Kits	6	Salicon
6	Dual DAC -0800 Module	1	Salicon
7	8279 Study Card	1	Anshuman Tech PVT LTD
8	8257 Study card	1	Anshuman Tech PVT LTD
9	6116/6264/62256 Ram study card	1	Anshuman Tech PVT LTD
10	Peripheral 8257	3	Anshuman Tech PVT LTD
11	Peripheral 8255	3	Anshuman Tech PVT LTD
12	Peripheral 8251	3	FALON
13	Peripheral I/P / O/P	3	KPS-01
14	Peripheral 8269	3	Anshuman Tech PVT LTD
15	Stapper & DC motor interface card	3	Zepronics
16	Power supply	1	Intex
17	Power supply KPS-01	1	Anshuman Tech PVT LTD
18	SMPS	10	
19	Keyword	1	
20	Keyword	6	
21	Trafic cum logic elevter OPTO coupler	2	
22	Adapter	14	
23	9 PinVGA cable & connector	10	

<b>24</b>	3 Pin power chord	12	
<b>25</b>	Booster cable	1	
<b>26</b>	Low noise cable	1	
<b>27</b>	cost iron capacity loads	3	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Name of Lab: P. C. B. Lab (Non Consumable)**

S.No.	Name of Equipment	Quantity	Make/Company
1	PCB Art Work Film Maker	1	Crescent Agencies PVT Ltd.
2	Cure PCB Curing Machine (Oven)	1	Crescent Agencies PVT Ltd.
3	Coating Machine	1	Crescent Agencies PVT Ltd.
4	Double Sided UV Exposure	1	Crescent Agencies PVT Ltd.
5	Etching Machine	1	Crescent Agencies PVT Ltd.
6	PCB Drilling Machine	1	Crescent Agencies PVT Ltd.
7	Shearing Machine	1	Crescent Agencies PVT Ltd.
8	Roller- Tinning Machine	1	Crescent Agencies PVT Ltd.
9	Winding Machine	1	Crescent Agencies PVT Ltd.
10	Light Table	1	Crescent Agencies PVT Ltd.
11	Plastic Tray (Blue Colour)	3	
12	Bread- Board with Power Supply Work board	1	
13	Soldering Iron	1	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Name of Lab: Power Electronics & Measurement Lab (Non Consumable)

S.No.	Name of Equipment	Quantity	Make/Company
1	Level measurement using straingauge	1	Vinytics
2	Thermo couple trainer	1	Salicon
3	Thermo couple characteristics	1	Lab electronics
4	Straingauge(load cell)	2	Vinytics
5	Rheostate(800 ohm,1.1Amp)	1	-
6	RTD(PT-100) trainer	1	Salicon
7	RTD(PT-100) transducer module	1	Vinytics
8	Kelvin bridge trainer(ST-9102)	1	Salicon
9	Kelvin bridge trainer(KMS-902)	1	Salicon
10	Kelvin double bridge	1	Excel technologies
11	Kelvin double bridge	1	Lab electronics
12	LCR-Q meter	1	Aplab
13	Magnetic pickup trainer kit	1	Vinytics
14	Hay's bridge trainer	1	Salicon
15	2-Wire thermister in a wheatstone bridge circuit	1	Lab electronics
16	LVDT trainer	1	Vinytics
17	Digital Anemometer	1	Vinytics
18	Owen's bridge trainer	1	Salicon
19	Analog voltmeter	2	DENKO Electrical
20	Analog ammeter	2	DENKO Electrical
21	Maxwell bridge trainer	1	Salicon
22	Digital Earth resistance tester	1	WACO
23	Diamond murcurial blood pressure apparatus	1	Deluxe
24	Schering bridge trainer	1	Salicon
25	Digital multimeter(VC 97)	2	Aplab

26	Digital multimeter	1	MAS-Tech
27	Digital multimeter	2	HAOYUE
28	Anderson bridge	1	Salicon
29	Pressure measurement trainer	1	Salicon
30	Temperature sensor	1	Lab electronics
31	20 MHz dual trace oscilloscope	2	Aplab
32	Calibration of AC voltmeter and AC ammeter	1	-
33	Dual trace CRO	1	Metro-Q
34	Measurement from Lissajous pattern	1	Excel technologies
35	2-Wire RTD in a potentiometer circuit	1	Lab electronics
36	Function generator 1MHz	2	Aplab
37	Work board with power supply	1	Deep Trainers
38	Dynamic microphones	2	National sound system
39	SCR characteristics kit	1	Rajat
40	SCR characteristics kit	1	Excel technologies
41	DIAC-TRIAC characteristics kit	2	Excel technologies
42	UJT characteristics kit	1	Rajat
43	Single phase AC phase controlled using TRIAC	1	Rajat
44	Triggering of IGBT, MOSFET, power transistor	1	Rajat
45	<b>bridge inverter using IGBT</b>	1	Rajat
46	Study of single phase half controlled bridge converter	1	Rajat
47	3 phase fully controlled converter	1	Rajat
48	MOSFET based chopper motor controller	1	Rajat
49	Micro controller based single phase bridge configuration cyclo converter	1	Rajat
50	Panel for speed control of 3 phase induction motor through AC drive motor controlled	1	Rajat
51	3-Pin power chord	10	-
52	CRO probes	10	-
53	Multimeter connecting leads	16	-

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Lab Name:-PLC Lab**

S.No.	Particulars	Quantity	Make
1	Panel(1)- PLC, HMI, SMPS, Relay Card, Switch, Input Supply	1	Tech Durga Engineering
2	Panel(2)- PLC, SMPS, Relay Card, Switch, Input Supply, 240V B.B.	1	Tech Durga Engineering
3	Panel(3)- Temperature Sensor (RTD), Safety Sensor, Pressure Sensor, Relay Card, SMPS, Switch	1	Tech Durga Engineering

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## ESHAN COLLEGE OF ENGINEERING, FARAH, MATHURA

### DEPARTMENT OF MECHANICAL ENGINEERING

#### List of Labs with Lab Incharge

S.No.	Laboratory Name	Lab Incharge Name
1	Engineering Graphics and design	Dr. Susheel Kumar
2	Mechanical Workshop	Dr. Susheel Kumar
3	Fluid Mechanics Lab	Er. Vinay Pratap Singh
4	Engineering Mechanics Lab	Er. Rajiv Vishwakarma
5	Material Testing Lab	Er. Gopal Sharma
6	Computer Aided Machine Drawing -I	Er. Rajan Khare
7	Applied Thermodynamics Lab	Er. Sandeep Gupta
8	Manufacturing Process Lab	Er. Gopal Sharma
9	Computer Aided Machine Drawing -II	Er. Rajan Khare
10	Heat and Mass Transfer Lab	Er. Chandra Shekhar Kuntal
11	Python Lab	Er. H.K. Sharma
12	Internate of Things Lab	Er. Ashish Gupta
13	Refrigeration and Airconditioning Lab	Er. Vinay Pratap Singh
14	Machine Design Lab	Er. Gopal Sharma
15	Theory of Machine Lab	Er. Chandra Shekhar Kuntal
16	Mesurment and Metrology Lab	Er. Vineet Arora
17	Mini Project I	Er. Gopal Sharma
18	Mini Project II	Er. Vineet Arora
19	Mini Project III	Er. Vinay Pratap Singh
20	Project Lab	Er. Arun Kumar



# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Internet of Things Lab

S.N.	Name of Equipment	Quantity	Make/Company
1	Raspberry pi 4 (4GB RAM)	1	Raspberry pi foundation U.K.
2	OLED SH1106	1	Generic
3	Load Sensor	2	Generic
4	Buzzer-5V	4	Generic
5	Buzzer-9V	4	Generic
6	Bluetooth Module	2	Generic
7	HX711 Load Cell Amplifier Module	2	Probots Techno Solution
8	GPS Module	1	Generic
9	LED Sensor	25	Electrobot
10	ESP8266 Wifi Module	1	Generic
11	REE552 Ethernet Module	1	Generic
12	Relay Module-I Type	1	Electronic Spices
13	Relay Module-II Type	1	Electronic Spices
14	Relay Module-IV Type	1	Electronic Spices
15	LM 98 Motor Driver Module	2	Generic
16	IR Module	4	Robotbanao
17	DHT Module	2	Robotbanao
18	LDR Module	4	Auslese
19	Vibration Module	3	Invento
20	Sound Module	3	Robotbanao
21	Pressure Module	3	A2Z Quality
22	Solenoid Valve	1	Generic
23	Linear Actuator 12V	1	Generic
24	Servo Motor	5	Super Debug

<b>25</b>	LED (16*2) Display	1	Silicon Techno Labs
<b>26</b>	Push Button	20	Electronic Pices
<b>27</b>	LED	50	D'Mark
<b>28</b>	Bread Board	9	Generic
<b>29</b>	ESP32	1	Easy Electronics
<b>30</b>	Node MCU 8266	2	Jacobs Parts
<b>31</b>	Arduino Uno	4	Spark lebox
<b>32</b>	Jumper Wires	50	Sparkle box
<b>33</b>	Ultrasonic Sensor	1	REE 552
<b>34</b>	Charger (5V)	1	Electronics spices
<b>35</b>	Charger (9V)	1	Aptech Deals
<b>36</b>	Resistance	50	Electronics spices
<b>37</b>	Soldering Iron	1	Generic
<b>38</b>	Glue Gun	1	Erh India
<b>39</b>	Digital Multimeter	1	Elough
<b>40</b>	Skrewer Driver	7	Spartan
<b>41</b>	Wire Cutter	1	Spartan
<b>42</b>	Plier	1	Kaltron

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: Engineering Mechanics Lab**

S.N.	Name of Equipment	Quantity	Remarks
<b>1</b>	Graven's Apparatus	1	
	Weight hanger	2	
	Small weights	20	
<b>2</b>	Sliding Friction Apparatus	2	
	Weight hanger	1	
	Small weights	10	
	Boxes	12	
<b>3</b>	Screw Jack Apparatus	2	(2Kg=2, 5Kg=1)
	Weight hanger	4	
	Small weights	10	
	Weights	3	
<b>4</b>	Worm & Worm wheel Apparatus	1	
	Weight hanger	2	
	Small weights	10	
<b>5</b>	Deflection of beam Apparatus	2	
	Weight hanger	2	
	Dial Gauge & stand	1	
<b>6</b>	Bellcrank lever Apparatus	1	
	Weight hanger	1	
	Weights	5	
	Weighing spring	2	
<b>7</b>	Regular Plane (Lamina)	2	
<b>8</b>	Irregular Plane (Lamina)	1	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Automobile Engineering Lab

S.N.	Name of Equipment	Quantity	Make/Company	Remarks
1	Gearbox actual	1	NIKO	Model
2	Four stroke Petrol Engine	2	HERO HONDA	Model
3	Battery Ignition System	1		Working Model
4	Two stroke Engine	1		Model
5	Diaphram Clutch	1		Model
6	Cut section model of Recriculating type stearing	1		Working Model
7	Steering system (Rack & Pinion)	1		Model
8	Cut section model of Worm & Roller type steering	1		Model
9	Fully floating rear axle differential gear	1		Model
10	Semi floating rear axle differential gear assembly	1		Model
11	Fuel supply system of a Diesel Engine	1		Working Model

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Heat and mass Transfer Lab

S.N.	Name of Equipment	Quantity	Make/Company
1	Thermal conductivity of composite wall apparatus	1	Sun lab tek equipment pvt ltd
2	Heat transfer through lagged pipe apparatus	1	Sun lab tek equipment pvt ltd
3	Heat transfer in natural convection apparatus	1	Sun lab tek equipment pvt ltd
4	Heat transfer in forced convection apparatus	1	Sun lab tek equipment pvt ltd
5	Emissivity measurement apparatus	1	Sun lab tek equipment pvt ltd
6	Pool boiling apparatus	1	Sun lab tek equipment pvt ltd
7	Heat exchange apparatus for parallel and counter flow	1	Sun lab tek equipment pvt ltd

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Theory of Machine lab

S.N.	Name of Equipment	Quantity	Make/Company
1	Four bar link mechanism	1	Sun lab tek equipment pvt ltd
2	Single slider mechanism	1	Sun lab tek equipment pvt ltd
3	Double slider mechanism	1	Sun lab tek equipment pvt ltd
4	Inversion of four bar mechanism	3	Sun lab tek equipment pvt ltd
5	Band brake	1	Sun lab tek equipment pvt ltd
6	Band and block brake	1	Sun lab tek equipment pvt ltd
7	Single shoe and double shoe brake	2	Sun lab tek equipment pvt ltd
8	Plate clutch	1	Sun lab tek equipment pvt ltd
9	Claw clutch	1	Sun lab tek equipment pvt ltd
10	Conical clutch	1	Sun lab tek equipment pvt ltd
11	Centrifugal clutch	1	Sun lab tek equipment pvt ltd
12	Spur gear	1	Sun lab tek equipment pvt ltd
13	Helical gear	1	Sun lab tek equipment pvt ltd
14	Bevel gear	1	Sun lab tek equipment pvt ltd
15	Simple gear train	2	Sun lab tek equipment pvt ltd
16	Compound gear train	2	Sun lab tek equipment pvt ltd
17	Epicyclic gear train	1	Sun lab tek equipment pvt ltd
18	Gyroscope	1	Sun lab tek equipment pvt ltd

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: CADD I LAB**

S.N.	Name of Equipment	Quantity	Make/Company
1	Monitor TFT	27	Acer
2	Mouse	27	HP
3	CPU	27	Intex
4	Keyboard	27	HP
5	Ram 16 GB	27	HP
6	SSD 240 GB	27	HP
7	Projector	1	Benq

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: CADD II LAB**

S.N.	Name of Equipment	Quantity	Make/Company
1	Monitor TFT	27	Acer
2	Mouse	27	HP
3	CPU	27	Intex
4	Keyboard	27	HP
5	Ram 16 GB	27	HP
6	SSD 240 GB	27	HP
7	Projector	1	Benq



# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: Applied Thermodynamics lab**

S.N.	Name of Equipment	Quantity	Make/Company
1	Morse Test Rig	1	Andros
2	Vertical water Tube boiler	1	Andros
3	Lancashire Boiler	1	N/A
4	Steam pressure turbine	1	N/A
5	Steam Engine Model	1	N/A
6	Gas turbine model	1	N/A
7	Two stroke diesel engine model	1	N/A
8	Two stroke Petrol engine model	1	N/A
9	Four stroke diesel engine model	1	N/A
10	Four stroke petrol engine model	1	N/A
11	Air and steam turbine Model	1	N/A
12	Impulse turbine	1	N/A

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Fluid and Fluid Machine Lab

S.N.	Name of Equipment	Quantity	Make/Company
1	Orifice meter equipment	1	Advance Scientific & Engg. Works
2	Friction Factors for pipe	2	Advance Scientific & Engg. Works
3	Venturimeter and Orificemeter	1	Advance Scientific & Engg. Works
4	Bernoulli's Theorem apparatus	1	Advance Scientific & Engg. Works
5	Reynolds Number equipment	1	Advance Scientific & Engg. Works
6	Metacentric height apparatus	1	Advance Scientific & Engg. Works
7	Suddenj enlargement & contraction apparatus	1	Advance Scientific & Engg. Works
8	Reciprocating Pump equipment	1	Advance Scientific & Engg. Works
9	Centrifugal Pump equipment	1	Advance Scientific & Engg. Works
10	Pelton wheel Test Rig	1	Advance Scientific & Engg. Works
11	Francis Turbine Test Rig	1	Advance Scientific & Engg. Works
12	Velocity varriation in pipe equipment	1	Advance Scientific & Engg. Works

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: Python Lab**

S.NO.	NAME OF EQUIPMENT	QUANTITY	COMPANY/CAPACITY
1	MONITOR-LCD	11	HP
2	MONITOR-LCD	15	AOC
3	KEYBOARD	15	HP
4	KEYBOARD	8	ASTRUM
5	KEYBOARD	3	LOGITECH
6	KEYBOARD	1	TVS
7	MOUSE	16	HP
8	MOUSE	6	ASTRUM
9	MOUSE	4	LOGITECH
10	MOUSE	1	LENOVO
11	CPU CABINET	27	HP
12	HDD	25	160GB
13	HDD	2	500GB
14	RAM	20	2GB
15	RAM	5	1GB
16	TABLE	27	NA
17	CHAIR	31	NA
18	PROJECTOR	1	NA
19	SWITCH BOX	2	NA
20	STAFF TABLE	1	NA
21	STAFF CHAIR	1	NA

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Refrigeration and Air-conditioning Lab

S.N.	Name of Equipment	Quantity	Make/Company
1	Refrigeration Test Rig.	1	Sun Tafe Lab
2	Open duct type Air-conditioning Trainer	1	Sun Tafe Lab
3	Phychrometer	1	
4	Model of Domestic Refrigerator	1	
5	Model of Kernotical Compressor	1	
6	Model of Domestic Window type air-conditionar	1	
7	Desert Cooler	1	

# **ESHAN COLLEGE OF ENGINEERING, MATHURA**

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## **DEPARTMENT OF MECHANICAL ENGINEERING**

**Name of Lab: Engineering Graphics and Design Lab**

<b>S.N.</b>	<b>Name of Equipment</b>	<b>Quantity</b>
1	Drawing Board with stands	27
2	Stools	27

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Material Testing Lab

S.N.	Name of Equipment	Quantity	Make/Company
1	Universal Testing Machine	1	ASI Sales Pvt. Ltd., Delhi
2	Impact Testing Machine	1	ASI Sales Pvt. Ltd., Delhi
3	Hardness Testing Machine	1	Fine Spavy Associatews & Engg. Pvt. Ltd.
4	Spring Testing Machine	1	ASI Sales Pvt. Ltd., Delhi
5	Torsion Testing Machine	2	
6	Veriner Calliper	1	
7	Micrometer	1	
8	Dial Gauge	1	
9	Deflection of beam apparatus	2	

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: Machine Design Lab**

S.N.	Name of Equipment	Quantity	Make/Company
1	Monitor TFT	27	Acer
2	Mouse	27	HP
3	CPU	27	Intex
4	Keyboard	27	HP
5	Ram 16 GB	27	HP
6	SSD 240 GB	27	HP
7	Projector	1	Benq

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Manufacturing Process Lab

S.N.	Name of Equipment	Quantity	Make/Company
1	Lathe Machine	3	Khattar Machine Store
2	Milling Machine	1	Khattar Machine Store
3	Shaper Machine	1	Khattar Machine Store
4	Tool Grinder	1	Khattar Machine Store
5	Drilling Machine	2	Khattar Machine Store
6	Outside calipers	10	Khattar Machine Store
7	Inside calipers	3	Khattar Machine Store
8	Vernier Calipers	3	Khattar Machine Store
9	Gas welding equipment	1	Tiripati Balaji Trading
10	Electric Arc Welding Machine	1	Khattar Machine Store
11	Electric Soldering Iron	10	Khattar Machine Store



# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Foundry Shop

S.N.	Name of Equipment	Quantity	Make/Company
1	Shovel	1	Khattar Machine Store
2	Riddle	2	Khattar Machine Store
3	Remmer	4	Khattar Machine Store
4	Bent Wire	2	Khattar Machine Store
5	Stick	1	Khattar Machine Store
6	Hand Blower	1	Khattar Machine Store
7	Trovels	6	Khattar Machine Store
8	Electric Blower	1	Khattar Machine Store
9	Iron Gible	1	Khattar Machine Store
10	Mallet	5	Khattar Machine Store
11	Moulding Box	5	Khattar Machine Store
12	Laddle	1	Khattar Machine Store
13	Dowel Pin	2	Khattar Machine Store
14	Almirah	1	Khattar Machine Store

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: Machine Shop**

S.N.	Name of Equipment	Quantity	Make/Company
1	Lathe Machine	3	Khattar Machine Store
2	Hack Saw Machine	1	Khattar Machine Store
3	Drill Machine	2	Khattar Machine Store
4	Shaper Machine	1	Khattar Machine Store
5	Out side Calliper (Sping)	10	Khattar Machine Store
6	Inside Calliper (Sping)	5	Khattar Machine Store
7	Steel Scale	11	Khattar Machine Store
8	Varnier Calliper	5	Khattar Machine Store
9	Inside Micrometer	5	Khattar Machine Store
10	Depth Gauge	2	Khattar Machine Store
11	Spanner	2 set	Khattar Machine Store
12	Marking Block	13	Khattar Machine Store
13	Oil Can	1	Khattar Machine Store
14	Dial Gauge (Marking)	5	Khattar Machine Store
15	Micro Meter	2	Khattar Machine Store
16	Drill Bit	1 set	Khattar Machine Store
17	Screw Driver	1	Khattar Machine Store
18	Hammer	5	Khattar Machine Store
19	Hand Hacksaw	6	Khattar Machine Store
20	File	20	Khattar Machine Store
21	Dimand Dressing Tool	1	Khattar Machine Store
22	Milling Machine	1	Khattar Machine Store
23	Tool Grinder	1	Khattar Machine Store
24	Almirah	1	Khattar Machine Store
25	Surface Plate	1	Khattar Machine Store
26	Allenkey set	1 set	Khattar Machine Store
27	Taster (Electric)	1pcs	Khattar Machine Store

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: Black Smithy Shop**

S.N.	Name of Equipment	Quantity	Make/Company
1	Tong	38	Khattar Machine Store
2	Anvil	2	Khattar Machine Store
3	Swedge Block	2	Khattar Machine Store
4	Hammer	52	Khattar Machine Store
5	Chipping Hammer	6	Khattar Machine Store
6	Sledge Hammer	2	Jain Bandhu, Agra
7	Hand Bellow	1	Jain Bandhu, Agra

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Sheet Metal Shop

S.N.	Name of Equipment	Quantity	Make/Company
1	Steel Rule	11	Khattar Machine Store
2	Snip	33	Khattar Machine Store
3	Mallet	5	Khattar Machine Store
4	Wire Gauge	1	Khattar Machine Store
5	Electric Soldering Iron	10	Khattar Machine Store
6	Center Punch	41	Khattar Machine Store
7	Marking Punch	1 set	Khattar Machine Store
8	Divider	29	Khattar Machine Store
9	Hammer	5	Khattar Machine Store
10	Straight Edge	1	Khattar Machine Store
11	Chisel	5	Khattar Machine Store
12	Wire Cutter	2	Khattar Machine Store
13	Vernier Caliper	1	Khattar Machine Store
14	Banch Shear (Hand)	1	Khattar Machine Store
15	Nose Plier	5	Jain Bandhu, Agra
16	Blow Clamp	1	Jain Bandhu, Agra
17	Almirah	1	Jain Bandhu, Agra

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Fitting Shop

S.N.	Name of Equipment	Quantity	Make/Company
1	Drill Machine	1	Khattar Machine Store
2	Banch Vice	23	Khattar Machine Store
3	Hand Vice	1	Khattar Machine Store
4	Vernier Cileper	6	Khattar Machine Store
5	Steel Scale	11	Khattar Machine Store
6	Micro Meter	1	Khattar Machine Store
7	Combination Set	2	Khattar Machine Store
8	Odd leg Cliper	10	Khattar Machine Store
9	Divider	10	Khattar Machine Store
10	Try Square	15	Khattar Machine Store
11	Scriber	5	Khattar Machine Store
12	Center Punch	10	Khattar Machine Store
13	V Block	7	Khattar Machine Store
14	Surface Plate	2	Khattar Machine Store
15	Chisel	4	Khattar Machine Store
16	File	39	Khattar Machine Store
17	Hand Hacksaw	24	Khattar Machine Store
18	Number Punch	2 set	Khattar Machine Store
19	Tap & Die	1 Each	Khattar Machine Store
20	Hammer	17	Khattar Machine Store
21	Plier	1	Khattar Machine Store
22	Drill Bit	1 set	Khattar Machine Store
23	Spanner	1 set	Khattar Machine Store
24	Hand Drill Machine	1	Khattar Machine Store
25	Screw Driver	1	Khattar Machine Store

26	Radius Gauge	1	Khattar Machine Store
27	Angle Gauge	1	Khattar Machine Store
28	Reamer Set	1 set	Khattar Machine Store
29	Almirah	1	Khattar Machine Store
30	Table (Wood)	5	Khattar Machine Store
31	Punch A to Z	1	Khattar Machine Store
32	Caliper in side Spring	10	Khattar Machine Store

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of Lab: Carpentry Shop**

S.N.	Name of Equipment	Quantity	Make/Company
1	Wood Working Machine	1	Khattar Machine Store
2	Carpentry vice	19	Khattar Machine Store
3	Saw	29	Khattar Machine Store
4	Mallet	5	Khattar Machine Store
5	Chiesel	32	Khattar Machine Store
6	Marking Gauge	8	Khattar Machine Store
7	Try Square	30	Khattar Machine Store
8	Divider	10	Khattar Machine Store
9	Scale	12	Khattar Machine Store
10	Stone	4	Khattar Machine Store
11	Rasp File	30	Khattar Machine Store
12	Jack Plane (Iron)	8	Khattar Machine Store
13	Measuring Meter	1	Khattar Machine Store
14	Axe	2	Khattar Machine Store
15	Rachet Brace	2	Khattar Machine Store
16	Banch Pipe vice	1	Khattar Machine Store
17	Pincer	2	Khattar Machine Store
18	Beval Squiare	2	Khattar Machine Store
19	C. Clamp	5	Khattar Machine Store
20	Marking Knife	5	Jain Bandhu Store, Agra
21	Auger Bit	2	Jain Bandhu Store, Agra
22	Burmi	2	Jain Bandhu Store, Agra
23	Claw Hammer	3	Jain Bandhu Store, Agra
24	Woodern Smooth Planer	5	Jain Bandhu Store, Agra
25	Gimlet	3	Jain Bandhu Store, Agra
26	Almirah	1	Jain Bandhu Store, Agra
27	Carpentry Table (Wood)	5	Make Carpanter

# ESHAN COLLEGE OF ENGINEERING, MATHURA

Approved by All India Council for Technical Education, New Delhi (AICTE)  
Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

## DEPARTMENT OF MECHANICAL ENGINEERING

### Name of Lab: Welding Shop (ARC & GAS)

S.N.	Name of Equipment	Quantity	Make/Company
1	Welding Machine	1	Khattar Machine Store
2	Holder (Welding)	4	Khattar Machine Store
3	Eye shiled screen	4	Khattar Machine Store
4	Chipping Hammer	15	Khattar Machine Store
5	Bursh (Iron)	12	Khattar Machine Store
6	Tong	14	Khattar Machine Store
7	C-Clamp	5	Khattar Machine Store
8	Welding	5	Khattar Machine Store
9	Goggles	4	Khattar Machine Store
10	Cross Peen Hammer	5	Khattar Machine Store
11	Filler	15	Khattar Machine Store
12	Scriber	5	Khattar Machine Store
13	Try Square	5	Khattar Machine Store
14	Steel Scale	5	Khattar Machine Store
15	Oxy Aceteline Gas	1	Tiripati Balaji Trading
16	Arc Welding Cable	3mtr	Khattar Machine Store
17	Almirah	1	Khattar Machine Store
18	Welding Table (Steel)	4	Khattar Machine Store