

MBS SCHOOL OF PLANNING AND ARCHITECTURE

Sector-9, PSP Area, Dwarka, New Delhi-110077

Affiliated to GGSIPU and Approved by CoA & AICTE

STATUS OF LABORATORIES:

1. Climatology Lab
2. Surveying Lab
3. Material Museum
4. Model cum Carpentry Workshop
5. Computer Lab.



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CLIMATOLOGY LAB

Climatic information of a place is an important parameter while designing buildings. Climatology is a part of B.Arch program. In order to make students aware of the importance of designing according to the climate, a climatology lab with required displays and equipment's has been established.



In this lab there are instruments to measure temperature, humidity, atmospheric pressure, rainfall, wind speed etc through -Thermometer (Glass/Digital), Wet/Dry Hygrometer, Infrared Thermometer, Barometer, Anemometer, Lux Meter, Altimeter, Rain Gauge, Wind Vane, Magnetic Compass.



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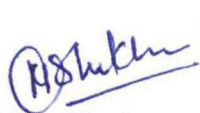
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CAPABILITIES

- Measurement of inside and outside air temperature.
- Measurement of temperature from thermal radiations.
- Measurement of level of luminance or intensity of light.
- Measurement of relative humidity.
- Measurement of atmospheric pressure.
- Measurement of wind velocity and wind direction
- Measurement of Rain fall
- Measurement of Altitude

LIST OF CLIMATOLOGY EQUIPMENTS

S.No.	Item Name	Qty.
1	Laboratory Thermometer (Glass)	3
2	Mercury Thermometer	1
3	Thermometer (Digital)	1
4	Wet & Dry Bulb Hygrometer	1
5	Digital Hygrometer	2
6	Infrared Thermometer	1
7	Barometer	1
8	Anemometer	2
9	Lux Meter	2
10	Altimeter	1
11	Rain Gauge	1
12	Wind Vane	1
13	Magnetic Compass	2

 
Faculty In-charge (Ar. Neelam & Ar. Kriteeka)


Lab Attendant (Mr. Mohit Kumar)


Director



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CLIMATOLOGY LAB

S.No.	NAME	USE
1	Laboratory Thermometer (Glass)	To measure temperature
2	Mercury Thermometer	To measure temperature
3	Thermometer (Digital)	To measure temperature
4	Wet & Dry Hygrometer	To measure relative humidity
5	Digital Hygrometer	To measure humidity
6	Infrared Thermometer	To measure temperature quickly, at a distance, and without touching the object
7	Barometer	To measure atmospheric pressure
8	Anemometer	To measure wind velocity
9	Lux Meter	To measure the amount of light in a space/on a particular work surface.
10	Altimeter	To measure measures altitude, the distance of a point above sea level.
11	Rain Gauge	To measure rainfall
12	Wind Vane	To measure wind direction
13	Magnetic Compass	To determine direction


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SURVEYING LAB

Surveying is basically an art and science of mapping and measuring positions of point. Levelling is a branch of Surveying, the object of which is to establish points at given elevation and it deals with a measurements in a vertical plane.

It is the art of measuring horizontal and vertical distances between objects, of measuring angles between lines, of determining the direction of lines, and of establishing points by predetermined angular and linear measurements. Distances, angles, directions, locations, elevations, areas, and volumes are thus determined from the data of the survey. Our institution is indulged keenly in teaching a student practically by surveying the site with the Survey instruments



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List of Surveying Lab Equipments

S.No.	Name of Equipment	Quantity
1	Dumpy Level	1 No.
2	Vernier Theodolite	2 Nos.
3	Leveling Staff	3 Nos.
4	Magnetic Compass	2 Nos.
5	Plane Table Set	2 Nos.
6	Surveyor Compass	1 No.
7	Metric Chain	3 Nos. (2 – 20 m) (1 – 30 m)
8	Measuring Tape 30 mtrs.	2 Nos.
9	Measuring Tape 15 mtrs.	3 Nos.
10	Auto Level	1 No.
11	Ranging Rods	6 Nos.

Faculty In-charge (Er. Kapil Prabhat Verma)

Lab In-charge (Er. Ajay Negi)

Director



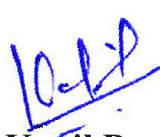
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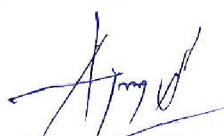
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Surveying Equipments

S.No.	NAME	USE
1.	Measuring Tapes (Length 20 M, 30 M, 50 M)	Measurements
2.	Surveying Chains (20 m & 30 m)	Measurements of Distance on the Ground (accuracy) length - 66 feet having 100 links
3.	Arrow	Used for Marking
4.	Peg	Also used for mark location
5.	Ranging Rods (200 m)	To locate intermediate points
6.	Offsets Rods (3 m Length)	For placing right angle & Marking Offset
7.	Plumb Bob	For Centering Purpose
8.	Cross Staff	For setting out right angles
9.	Optical Square	For right angle
10.	Prism Square	To set out offset line at right angle
11.	Prismatic Compass	To measure magnetic meridian/ bearings
12.	Surveyor Compass	For measuring angles (deflection angles)
13.	Theodolite	Measure Vertical & Horizontal Angles


Faculty In-charge (Er. Kapil Prabhat Verma)


Lab In-charge (Er. Ajay Negi)



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MATERIAL MUSEUM CUM LIBRARY

The college museum has variety of samples of building materials, architectural products, raw material for interior and exterior work, and various kinds of trusses, joinery details, doors and windows profile, etc. for ready reference and for use as teaching aids. The Museum also has detailed models of tensile structures, electrical & sanitary fixtures and fittings besides samples of wall tiles, laminates and types of glass.

It also includes all the necessary presentations and models required to explain building structures and its services. This also contains wide range of brochures, material samples and market survey done and collected by students



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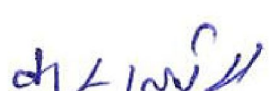
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List of Equipments available in Construction Yard

S.No.	Name of Equipment	Qty.
1	Sprit Level	2 Nos
2	Trowel	4 Nos.
3	Trowel (Wooden)	1 No.
4	Paint Roller	1 No.
5	Pincer	3 Nos.
6	Plumb Bob	7 Nos
7	Screw Driver	1 No.
8	Square Measurement	16 Nos.
9	Hammer	1 No.
10	Spades	3 Nos.
11	Shovel	3 Nos.
12	Measuring Tape 5 mtrs	1 No.
13	Pickaxe	3 Nos.
14	Brick Hammer	1 No.


Faculty In-charge (Ar. Smita & Ar. Ravi)


Lab Attendant (Mr. Kamlesh)


Director



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CONSTRUCTION YARD EQUIPMENTS

S.No	NAME	USE
1	Sprit Level	For Surface Level Indication
2	Trowel	To lift and apply cement mortar
3	Paint Roller	Painting Large/ Flat Areas such as walls, floors and ceilings.
4	Pincer	For holding or pulling something
5	Plumb Bob	For checking verticality of structure
6	Screw Driver	For insertion and removal of screws
7	Square Measurement	Measure the area of a two-dimensional space
8	Hammer	For general carpentry, framing, nail pulling, cabinet making, assembling furniture, upholstering, finishing, riveting, bending or shaping metal, striking masonry drills etc.
9	Spades	For digging soil for foundation
10	Shovel	To move loose, granular materials (like dirt, gravel, grain, or snow) from one spot to another
11	Measuring Tape 5 mtrs	For measurement purposes.
12	Pickaxe	Excavation

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MODEL CUM CARPENTRY WORKSHOP

Model Workshop is the first step for any architecture student to conceptualize and visualize the difference between two dimensional and three dimensional objects which at a later stage helps them to develop their design approach in a better manner like development of surfaces, helps to develop an eye for scale and proportion.

Materials used by students vary from ivory sheets to sun boards, clay, POP, thermocol, wires, etc. They are acquainted about the usage of various materials on the basis of properties. The space presently designated for model workshop is being used for Carpentry works, Art & design models and Exhibit models prepared by students for thesis and research work.



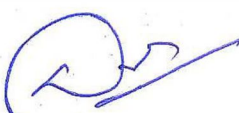
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List of Equipments Carpentry/Model Workshop

S.No.	Name of Equipment	Qty.
1	Bench Vice5"	10 Nos.
2	Chisel 8"	05 Nos.
3	Carpenter's Hammer	03 Nos.
4	Screw Driver	03 Nos.
5	Cutting Pillers 8"	04 Nos.
6	Steel Scale 24"	01 Nos.
7	Steel Scale 12"	01 Nos.
8	Right Angle 10"	10 Nos.
9	Hand Drill M/C	03 Nos.
10	Right Angle (4" & 6")	06 Nos.
11	Hand Saw 10"	11 Nos.
12	Jig Saw (Machine)	02 Nos.
13	Drill Machine	03 Nos.
14	Drill Bit Set	01 Set No.
15	Planes Metallic	08 Nos.
16	Planner	02 Nos.
17	Plumb Bob	03 Nos.
18	Nail Remover	04 Nos.
19	Measuring Tape (7, 10 & 15 m)	01 Each
20	Clamp 10"	01 No.
21	Clamp 8"	05 Nos.
22	Hack Saw Blade	05 Nos.
23	Equaliser	02 Nos.
24	Steel Hand Saw	05 Nos.
25	Wood Chisel Set	03 Nos.
26	Wood Chisel (Ingco HWC0812)	3 Nos.
27	Brown Kail Wood, For Window Frame	10 Pcs.
28	36 Anchor Sandpaper	1 Nos.
29	Wet & Dry Sand Paper (Waterproof)	1 Nos.
30	Hand Plane	3 Nos.
31	Bosch Impact Drill Machine	3 Nos.
32	Iron Human powered Drill Machine	2 Nos.
33	Sabre Saw blades	10 Nos.
34	Screwdrivers	3 Nos.
35	Hand Hack Saw Blades	10 Nos.
36	Filers	3 Nos.
37	Nails, Screws, etc.	250 Gms.


Faculty In-charge (Ar. Divesh Wadhwa)


Workshop In-charge (Mr. Jasbir Singh)


Director

