

11. RESOURCE REQUIREMENT FOR ARCHITECTURAL ASSISTANTSHIP DEPARTMENT

11.1 Physical Resources

11.1.1 Space Requirement:

Sr. No	Name of Lab	Area in sqmt.	Remarks
1	Computer Graphics /Autocad Lab.	75	
2	Art Studio	75	
3	Survey lab	75*	Common with Civil Engg.
4	Materials & Building Museum	75	
5	Model Making Lab	75	
6	Masonry Workshop/Painting Shop /Welding Shop	75	
7	Design/Drafting Studio	75	
8	LRUC Lab.	75*	Common with Civil other branches.

11.1.2 Equipment Requirement:

1. NAME OF LAB:- COMPUTER GRAPHICS /AUTOCAD LAB

S. No.	Name of Item	Qty. Required for intake of 20 Students
1	Computers with latest specification including latest software (Core –II Duo)	20
1.1	Auto Cad Release 2008 multi-user (30 students) Educational Version	20users
1.2	STAD-pro	20users
1.3	REVIT –series	20users
1.4	3D-MAX	20users
2	Plotter ink jet H.P. Make (A0Size)	1
3	Printer Laser jet. (A3 Size)	1
4	Engineering Planning printer Xerox with embedded processor colour scanner	1
5	On Line U.P.S. (5 KVA) central	1
6	Split A.C (1.5 ton)	2
7	White Board (8'x4')	1
8	Colored Photocopier	1
9	Lap Top	2
10	Computer Table	20
11	Revolving Chairs	20

2. NAME OF LAB: - ART STUDIO

S.No.	Name of Item	Qty. Required for intake of 20 Students
1	Still Life Stand	5
2	Draperies for still life & Modern Drawing	Lump Sum
3	Still Life Objects made of different material	Lump Sum
4	Wooden Platform Revolving for live study	2
5	Soft Board Panels for pinning Drawings (4'-0" x 8'-0", 3/4" thick)	3
6	Donkey desk with stand for sketch book	20
7	Miscellaneous drawing equipments-Calligraphy Pen Set, Inking Pens, French Curves, Instrument Box, Steel Rules, Scissors, Mount Cutter Sketch Pens, Steel Rules, Pencil Colours Water Colours, Crayons, Painting Brushes Colours Pallets, Photographic Mount Board Drawing Sheets, Tracing Papers, Ammonia Papers, Gate Way Role, Cello Tape, Drawing Pins, Rotring Ink, Eraser, Cutters	Lump-sum
8	Display Boards/Panels	2
9	Stapler Large Size With Pins	1
10	Stapler Small Size with Pins	2
11	Sheet Cover Cylindrical	5
12	Sheet Cover Rectangular	5

3. SURVEY LAB

S.No.	Name of Item	Qty. Required for intake of 20 Students
1	Indian Optical Square (Wedge shaped)	5
2	Invar Precision Staff (3 mtr long)	5
3	Folding Metric Staff (4mtr long)	5
4	One Length Staff	5
5	Sop with Telescopic Staff	5
6	Steel Tape	5
7	Metallic tape (30 mtr)	5
8	Metallic tape (50 mtr)	5
9.	Invar Tape	5
10.	Offset Rod	5
11.	Line Ranger	5
12.	Telescopic Alidade	5
13.	Alidade	5

14	Theodolite with Stand (High Range)	5
15	Theodolite with stand (Electronic/Digital)	5
16	Prismatic Compass with Stand	5
17	Surveyor's Compass	5
18	Trough Compass	5
19	Plumb Bob	5
20	Spirit Level	5
21	Plane Table with Stand	5
22	Plumbing Fork	5
23	Dumpy Level (High Range) with Stand	5
24	I.O.P. Level with Stand	5
25	Planimeter	5
26	Ranging Rod	5
27	Tangent Clinometers with stand	5
28	Cross Staff	5
29	Total station	1
30	Automatic level	5

4. NAME OF LAB: - MATERIALS & BUILDING MUSEUM LAB

S. No.	Name of Item	Qty. Required for intake of 20 Students
1	Different types of wood products	(at least one sample each.)
2	Different types of glass samples	(at least one sample each.)
3	Different types of fasteners & adhesives	(at least one sample each.)
4	Different types of Paints	
5	Different types of sanitary wares (Bidet, Wash Basin, shower Tray etc.)	(at least one sample each.)
6	Different Types of Building Stones	Lump Sum
7	Different Types of Building Bricks	Lump Sum
8	Different Types of Sands	Lump Sum
9	Samples of electrical fixtures & fittings, conduits, wires & conducting materials	(at least one sample each.)
10	Samples of Plumbing fixtures to be installed as working prototype	(at least one sample each.)
11	Sample of floor finishes & wall finishes	(at least one sample each.)
12	Sample of false ceiling fixtures & finishes	(at least one sample each.)
13	Sample of building hardware (Hinges, Hangers, Bolts, bars, brackets etc.)	(at least one sample each.)
14	Samples of Acoustical materials	(at least one sample each.)
15	Sample Of Thermal Insulating Material	(at least one sample each.)

16	Steel Trusses (Different Types) Angle/Channel Section/M.S. Flat	(at least one sample each.)
17	Aluminum Models of Doors/windows/Partition	(at least one sample each.)
18	Model charts	5
19	Solar Chart	5
20	Sun Chart	5
21	Charts/Drawings Of Old Monumental Buildings	Lump Sum
22	I.S. Codes-456 for Design Of R.C.C. Structures	5
23	Steel Tables For Steel structural Design	5
24	I.S. Code No. 13828,4326,1893,154326 & 13920 for earth Quake Resistant Buildings	5
25	Compressive Strength Testing Machine	1
26	Samples of Thermocol,	
27	Samples of cork sheet	
28	Samples of acrylic sheet	

5. MODEL MAKING LAB

Sr. No.	Name of Item	Qty. Required for intake of 20 Students
1	Jack Plane	5
2	Smoothing Plane	5
3	Plug Plane	5
4	Router Plane	3
5	Electrical Power Plane (portable)	2
6	Hand Saw	5
7	Tennon Saw	5
8	Key Hole Saw	5
9	Bow Saw	2
10	Mortise Chisel	10
11	Firmer Chisel	10
12	Gauge Chisel	10
13	Cross Cut Saw	2
14	Gimlet	5
15	Mallet	5
16	Claw Hammer	5
17	Ball peen Hammer	5
18	Screw Driver	5
19	Pincer	5
20	Hand Drill Machine	2
21	Bench Vice	5
22	Tri square	10
23	Maitre Square	10
24	Painting Gun	2
25	Painting Brushes	Lump Sum
26	Flexible Steel Tape (3 mtr)	10

27	Multipurpose Planer	1
28	Maitre Saw Machine	1
29	Wood Turning Lathe Machine	1
30	Miscellaneous equipments-Calligraphy Pen Set ,Inking Pens, French Curves, Instrument Box, Steel Rules, Scissors, Mount Cutter Sketch Pens, Steel Rules ,Pencil Colours Water Colours, Crayons, Painting Brushes Colours Pallets, Photographic Mount Board Drawing Sheets, Tracing Papers, different coloured Papers, Gate Way Role ,Cello Tape, Drawing Pins, Rotring Ink, Eraser,Cutters, acrylic sheet, cork, POP, thermocol, balsa wood, glass for cutting of boards, fevicol & adhesives	Lump-sum
31	Paper Cutting Machine	1

6. MASONRY& BUILDING YARD /WELDING SHOP / PAINTING SHOP

S. No.	Name of Item	Qty. Required for intake of 20 Students
1	Straight Edge (Aluminum)	5
2	Plumb Bob	5
3	Spirit Level (Big Size)	5
4	Trowels of Different Types	10
5	Steel Float	5
6	Mason Hammer	5
7	Claw Hammer	3
8	Ordinary Hammer	5
9	Cross Pan Hammer	3
10	Wall Pan Hammer	3
11	Sledge Hammer	2
12	Hand Saw	3
13	Hack Saw	2
14	Water Level Pipe	3
15	Plier	2
16	Screw Driver Set	2
17	Iron Pan	5
18	Pick axe	3
19	Shovel	3
20	Surface Vibrator	1
21	Needle Vibrator	1
22	Batch Mixer for One Bag Capacity	1
23	Grinder,	1
24	Stone cutter	1
25	Materials required for building yard: Different types of bricks ,stones, cement, sand , coarse aggregate ,different sizes sieves , mild steel rods and timber planks	

26	Welding Shop: Portable welding set with complete accessories , cutters , gas welding set ,Drilling machines ,Hand grinder	
27	Painting Shop: Spray painting gun with small compressor	

7 DESIGN/DRAFTING STUDIO

Sr. No.	Name of Item	Qty. Required for intake of 20 Students
1	Adjustable Drafting Machines A0 Size with parallel bar & Revolving stools	5
2	Templates (Furniture, Sanitary, Electric Symbols, Kitchen& Geometric Forms Etc.)	Lump Sum
3	Beam Compass	5
4	Steno Compass	5
5	Flexible Curves	5
6	Drawing instrument Box	5
7	Drafting Pens (Rotring)	5 Set
8	Scales	10 Set
9.	Coloured ink	Lump Sum
10.	Clutch Pencils	Lump Sum
11.	Soft Pencils	Lump Sum
12.	Erasers	Lump Sum
13.	Different Types of Colours	Lump Sum
14	Mixing Pallets	Lump Sum

8. LRUC LAB.

1	L.C.D. Projector with foldable screen	1
2	LCD (29")	1
3	D.V.D. Player	1
4	Automatic slide projector	1
5	Digital camera (Sony)	1
6	Handy Cam (Sony)	1
7	Lap Top	1
8	Desk Top	5
9	Mike. Speakers, head phones etc	Lump Sum
10	Home theatre	1
11	Split A.C. (1.5 Ton)	1

11.1.3 Furniture Requirement

Norms and standards laid down by AICTE be followed for working out furniture requirement for this course.

11.2 Human Resources Requirement:

Weekly work schedule, annual work schedule, student teacher ratio for various group and class size, staffing pattern, work load norms, qualifications, experience and job description of teaching staff workshop staff and other administrative and supporting staff be worked out as per norms and standards laid down by the AICTE.