

Faculty of Architecture
B.Arch- Architecture R2017

Minimum requirements for Studio and Laboratory Equipment for the Architecture
(For a Batch of 40 Students)

A. Studios (For each batch)

| Sl.No. | Description of Equipment | Quantity Required(R) | Quantity Available(A) | Deficiency (R-A) |
|--------|--|----------------------|-----------------------|------------------|
| 1 | Drawing board of size A0 (110cm x 80cm), stand and stool (1 No./ Student) | 40 | | |
| 2 | Storage facilities for drawings and models of students (1 No./Student or equivalent) | 40 | | |
| 3 | Permanent display panels Or Portable display panels (Min 5 Nos of 8' x 4' or equivalent) | 5 | | |

B. Laboratories (Equipment can be shared for respective subject hours as per timetable for each batch/year)

1. Computer Lab

| Sl.No. | Description of Equipment | Quantity Required(R) | Quantity Available(A) | Deficiency (R-A) |
|--------|--|----------------------|-----------------------|------------------|
| 1 | Computers with configuration to run required licensed software effectively (1 No./Student) | 40 | | |
| 2 | Plotter (A1size) | 1 No. | | |
| 3 | A4 Size Printer/Scanner | 2 Nos. | | |
| 4 | LCD with support system | 1 No | | |

2. LICENSED SOFTWARE FOR COMPUTER LAB

| Sl. No. | Purpose | Software Type (Latest version preferable) | Quantity Required (R) | Quantity Available (A) | Deficiency (R-A) |
|---------|--|--|-----------------------|------------------------|------------------|
| 1. | General Purpose software for word processing, spread sheets, etc., | Microsoft Office or Equivalent | 1 No/ Computer | | |
| 2. | 2D & 3D Drafting, Modelling and Visualisation | AutoCAD/REVIT, 3DS MAX, Sketchup or equivalent | 1 No/ Computer | | |

| | | | | | |
|----|------------------|-------------------------|----------------|--|--|
| 3. | 2D Image Editing | Photoshop or equivalent | 1 No/ Computer | | |
|----|------------------|-------------------------|----------------|--|--|

3. CARPENTRY AND MODEL MAKING WORKSHOP

| Sl.No. | Descriptions of Equipments | Quantity Required(R) | Quantity Available(A) | Deficiency (R-A) |
|--------|---|----------------------|-----------------------|------------------|
| 1. | Handiman Tool Kit | 2 Nos. | | |
| 3. | Measuring Tape (Steel 30 m) | 2 Nos. | | |
| 4. | Model Miniature Bricks in Wood | 4 Sets | | |
| 7. | Thermo Cole Cutting Machine | 2 Nos. | | |
| 8. | Glass Cutter | 2 Nos. | | |
| 9. | Electrically Operated Potter's wheel | 2 Nos. | | |
| 10. | Carpentry work benches with carpentry tools | 2 Tables. | | |

4. SURVEY LAB

| Sl.No. | Description of Equipment | Quantity Required(R) | Quantity Available(A) | Deficiency (R-A) |
|---|---|----------------------|-----------------------|------------------|
| 1 | Theodolite | 2 Nos. | | |
| 2. | Dumpy Level | 2 Nos. | | |
| 3. | Survey Plane Table | 2 Nos. | | |
| 4. | Ranging Rods | 2 Sets | | |
| 5. | Leveling staff / Cross staff | 2 Sets | | |
| 6. | Chains- 10 m and 20 m | 1 set each | | |
| 7. | Surveying tapes / Measuring tape - 30 m minimum | 2 Nos. | | |
| 8. | Surveyor compass | 1 No. | | |
| Or Total Survey Station instead of all the above | | 1 No. | | |

5. MASONRY TOOLS FOR CONSTRUCTION YARD

| Sl.No. | Description of Equipment | Quantity Required(R) | Quantity Available(A) | Deficiency (R-A) |
|--------|--|----------------------|-----------------------|------------------|
| 1 | Trowel | 10 Nos. | | |
| 2. | Masonry levels -Tube and spirit levels | 2Nos. each | | |
| 3. | Masonry lines | 4 Nos. | | |

| | | | | |
|----|-------------------------------|--------|--|--|
| 4. | Plumb line | 4 Nos. | | |
| 5. | Other necessary masonry tools | | | |

6. CLIMATOLOGY LAB

| Sl.No. | Descriptions of Equipments | Quantity Required(R) | Quantity Available(A) | Deficiency (R-A) |
|---|-----------------------------------|-----------------------------|------------------------------|-------------------------|
| 1 | Barometer | 1 No. | | |
| 2. | Solarimeter | 1 No. | | |
| 3. | Anemometer | 1 No. | | |
| 4. | Windvane | 1 No. | | |
| 5. | Rain Gauge | 1 No. 1 No. | | |
| Or Comprehensive Weather Station instead of all the above | | 1 No. | | |

7. ACOUSTICS AND LIGHTING LAB

| Sl.No. | Description of Equipment | Quantity Required(R) | Quantity Available(A) | Deficiency (R-A) |
|---------------|---------------------------------|-----------------------------|------------------------------|-------------------------|
| 1. | Sound Level Meter | 1 No. | | |
| 2. | Illuminance Meter | 1 No. | | |
| 3. | Luminance Meter | 1 No. | | |