Minimum requirements for conducting
Diploma in Medical Laboratory Technology Course

A. Infrastructure

i) **Teaching Infrastructure** : Should have -
   1. Lecture Theatre
   2. Student Reading Room
   3. Library
   4. Audio Visual Facilities

ii) **Clinical Infrastructure** : Should be at least a 100 bedded hospital (single unit) or a stand alone Laboratory with a work load of minimum of 75 patient samples per day.

   Should have all modalities of diagnosis including Haematology, Biochemistry, Microbiology and Histopathology.

iii) **Equipments**

1. Haematology Analyser (5part/3 part)
2. Bio Chemistry Analyser (Fully automatic)
3. Bio Chemistry Analyser (Semi automatic)
4. Microbiology facilities including Culture-Sensitivity Facility
5. Histopathology Facility
6. Cytology
7. Hormones/ELISA
8. Microscope – Binocular

B. Faculty

   i. One full time Pathologist
   ii. One full/part time Microbiologist
   iii. Lab technician : 3-4

C. Work Load & Students intake

<table>
<thead>
<tr>
<th>Patients per day</th>
<th>No. of Students/session</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-100</td>
<td>05</td>
</tr>
<tr>
<td>101-300</td>
<td>10</td>
</tr>
<tr>
<td>301-500</td>
<td>20</td>
</tr>
</tbody>
</table>
Minimum requirements for conducting

Diploma in X-RAY/Imaging Technology

A. Infrastructure

i) Teaching Infrastructure: Should have -
   1. Lecture Theatre
   2. Student Reading Room
   3. Library
   4. Audio Visual Facilities

ii) Clinical Infrastructure: Should be at least a 100 bedded hospital (single unit) or a stand alone diagnostic centre with a minimum of workload as mentioned below.

iii) The institute must have the following equipments and should have AERB approval for radiation safety:

   **Equipments**
   1. X-Ray Machine (300 mA and above)
   2. Portable/Mobile X-Ray units
   3. CT Scan
   4. MRI
   5. Ultrasound Machine
   6. Colour Doppler

B. Faculty

i. One full time Radiologist
ii. X-RAY Technician: 3-4

C. Work load & Students intake

<table>
<thead>
<tr>
<th>Investigation</th>
<th>Patients per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-RAY</td>
<td>50</td>
</tr>
<tr>
<td>Ultrasound</td>
<td>40</td>
</tr>
<tr>
<td>CT Scan/MRI</td>
<td>10</td>
</tr>
<tr>
<td>No. of Students/session</td>
<td>05</td>
</tr>
</tbody>
</table>
Minimum requirements for conducting

Diploma in Operation Theatre Technician

A. Infrastructure

i. **Teaching Infrastructure** : Should have -
   1. Lecture Theatre
   2. Student Reading Room
   3. Library
   4. Audio Visual Facilities

ii. **Clinical Infrastructure** : Should be at least a 100 bedded hospital (single unit).

   The institution must have at least two main operation theatres out of which one should run round the clock (24 hrs) and should have minimum of following equipments/facilities:

   **Equipments**
   1. Central Medical Gas Pipeline System
   2. Centralized Sterile Supply Departments
   3. Anaesthesia Machines
   4. Operating Microscopes
   5. C-Arm Image Intestifier
   6. Endoscopes

B. Faculty

   i. One full time Surgeon
   ii. One full time Anesthetist
   iii. O T Technicians : 3-4

C. Work load & Students intake

<table>
<thead>
<tr>
<th>Number of surgeries per day</th>
<th>No. of Students/session</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 20</td>
<td>05</td>
</tr>
<tr>
<td>21 – 40</td>
<td>10</td>
</tr>
<tr>
<td>41 - 60</td>
<td>20</td>
</tr>
</tbody>
</table>
Minimum requirements for conducting

Diploma in Cardiac Technology

A. Infrastructure

i. **Teaching Infrastructure**: Should have -
   1. Lecture Theatre
   2. Student Reading Room
   3. Library
   4. Audio Visual Facilities

ii) **Clinical Infrastructure**: Should be at least a 50 bedded hospital (single unit) with cardiology and Cardiac Thoracic Surgery Departments.

   **Equipments**
   1. ECG machines (12 channels, 3 channels or single channel)
   2. Holter Recording and Analyzing System
   3. Treadmill
   4. Echo Cardiography
   5. Cardiac Cath Lab
   6. Cardiac Operation Theatre

B. Faculty

i. One full time cardiology
   ii. One full time CTVS surgeon
   iii. One full time Anesthetist

C. Work load and Students intake

<table>
<thead>
<tr>
<th>Number of beds</th>
<th>No. of Students/session</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 – 100</td>
<td>05</td>
</tr>
<tr>
<td>101 – 300</td>
<td>10</td>
</tr>
<tr>
<td>301 and above</td>
<td>20</td>
</tr>
</tbody>
</table>
Minimum requirements for conducting

Diploma in Medical Record Technology

A. Infrastructure

i) **Teaching Infrastructure** : Should have -
   1. Lecture Theatre
   2. Student Reading Room
   3. Library
   4. Audio Visual Facilities

ii) **Clinical Infrastructure** : Should be at least a 100 bedded hospital (single unit) with separate space for Medical Records to be maintained Electronically/Manually :

iii) **Facility**
   1. Computers in Departments
   2. Computers in hospital
   3. Online facility
   4. Storage Space
   5. MLC Section
   6. ICD -10classification
   7. Indexing

B. Faculty

i. One full time Medical Record Officer
ii. One full time Medical Record Technician

C. Work load and Students intake

<table>
<thead>
<tr>
<th>Number of beds</th>
<th>No. of Students/session</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>05</td>
</tr>
<tr>
<td>101 – 300</td>
<td>10</td>
</tr>
<tr>
<td>301 - 500 and above</td>
<td>20</td>
</tr>
</tbody>
</table>
Minimum requirements for conducting

Diploma in Dialysis Technician

A. Infrastructure

i) Teaching Infrastructure: Should have -
   1. Lecture Theatre
   2. Student Reading Room
   3. Library
   4. Audio Visual Facilities

ii) Clinical Infrastructure: Should have dedicated Dialysis Unit with at least six (6) machines and RO System for Dialysis Machine.

iii) Equipments
   1. Dialysis Machine
   2. Sterilization Facility
   3. Power Supply & Backup Generator
   4. Dedicated machines for HIV and Hepatitis B cases

B. Faculty
   i. One Nephrologist
   ii. Dialysis Technician: 3 – 4

C. Work load and Students intake

<table>
<thead>
<tr>
<th>Number of machines</th>
<th>No. of Students/session</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>05</td>
</tr>
<tr>
<td>7 – 20</td>
<td>10</td>
</tr>
<tr>
<td>21 – 40</td>
<td>20</td>
</tr>
</tbody>
</table>
Minimum requirements for conducting
Certificate in Blood Bank Technology

A. Infrastructure

i) Teaching Infrastructure: Should have -
   1. Lecture Theatre
   2. Student Reading Room
   3. Library
   4. Audio Visual Facilities

ii) Clinical Infrastructure: Should be a registered Blood Bank functioning round the clock, with at least 2000 Blood Donations per year.

iii) Facility
   1. Blood donation chairs/beds
   2. Storage cabins
   3. Cell separators
   4. Other equipments

B. Faculty
   i. One full time Blood Bank Officer
   ii. Technician(s): 3 – 4 full time

C. Work load and Students intake

<table>
<thead>
<tr>
<th>Annul Blood Collection</th>
<th>No. of Students/session</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>05</td>
</tr>
<tr>
<td>2001 – 4000</td>
<td>10</td>
</tr>
<tr>
<td>Above 4000</td>
<td>20</td>
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</table>