

## 10. RESOURCE REQUIREMENT

### LIST OF TOOLS, EQUIPMENTS AND FURNITURE

#### (FOR BIO-MEDICAL COURSES)

**Note:**

Since the equipment is very costly and for optimal use the exact items and number needs to be identified and calculated. This is only suggestive list.

Sr.No.	Description of Equipment/Tools	Qty No(s)/Sets
1.	ECG Machine Interpretative	02
2.	Defibrillator with Monitor	01
3.	Non Invasive Blood Pressure Apparatus (NIBP) Electronic	03
4.	Phono-Cardiograph	02
5.	Oscilloscope Storage Type 50 MHz	02
6.	Digital Multimeter	03
7.	Soldering Iron	04
8.	Ventilator/Respirator	02
9.	ECG Simulator	02
10.	Spirometer (Computer based)	02
11.	Digital Multimeter	12
12.	Dual Trace Digital Oscilloscope (Storage)	05
13.	Adjustable a.c/d.c Power Supply	As per Trg. Needs
14.	Anatomical Charts	As per need
15.	Portable X-Ray machine with standard accessories	02
16.	30 mA X-Ray system with Fluoroscopy	01
17.	Dental X-Ray System	02
18.	Dark room accessories for X-ray for developing including Radiation protection Apron	01
19.	Ultrasound scanning machine with Probes for Abdomen, Eyes other applications	03

<b>Sr.No.</b>	<b>Description of Equipment/Tools</b>	<b>Qty. No(s)/Sets</b>
20.	Telemetry System & ECG	01
21.	Digital Multimeter	12
22.	Dual Trace Digital Oscilloscope (Storage)	05
23.	Adjustable a.c/d.c Power Supply	As per need
24.	Networking Cards and Peripherals	As per need
25.	Short wave Diathermy unit	01
26.	Pulsed Short-wave Diathermy	01
27.	Transcutaneous Electrical nerve stimulator	01
28.	Ultrasound therapy unit	01
29.	Muscle stimulator	01
30.	Interferencial Therapy Unit	01
31.	UV Lamp-Germicidal &	01
32.	Acupuncture Stimulator	01
33.	Electronic pain killer	01
34.	Electronic pain reliever	01
35.	Microwave Diathermy Unit	01
36.	UPS (on-Line) 5 KVA with unserviceable battery back-up for 3 Hours Battery stand	01
37.	Anatomical Charts	As per need
38.	Electro-Surgical Unit	02
39.	Ultrasonic Doppler	01
40.	Holter Monitor	02
41.	Syringe Needle Destroyer	01
42.	Electro Surgical system(Different type)	02 each
43.	Clautery system (Different type)	01
44.	Breath analyzer	02
45.	Syringe Infusion Pump	02
46.	Microscopes	05
47.	Ventilator	01
48.	Stress Test Machine (TMT)	01Set

<b>Sr.No.</b>	<b>Description of Equipment/Tools</b>	<b>Qty. No(s)/Sets</b>
49.	EMG Machine	01
50.	ENG Machine	01
51.	EEG Machine (Computer Based)	01
52.	Sigmodiascope	01
53.	Polygraph (Multi channel Recorder) with different amplifiers transducers	02 set
54.	Laproscope	01
55.	Ultrasonography	02
56.	Ratioscope	01
57.	Ophthalmoscope	01
58.	Cheirscope Binocular	02
59.	Polyscope	02
60.	Lensometer	02
61.	Shiotz's Tonometer	02
62.	Slit Lamp	02
63.	Computerised Eye Testing Set	01
64.	Stereoscope Binocular	01
65.	Auto Meter	01
66.	Laryngoscope with microscope	01 set
67.	Oesophagoscope	01
68.	Bronchoscope	01
69.	Middle Ear Analyser	01
70.	Anatomical Charts	As per needs
71.	Trainees Tool Kits	16
72.	Tong Tester	02
73.	Earth Tester Line Tester	As per needs
74.	Central Alarm system	02 Set
75.	Intelligent Refrigerator	03
76.	Air-Conditioner	03
77.	Steam Sterilizer (diff. Sizes)	01 each

<b>Sr.No.</b>	<b>Description of Equipment/Tools</b>	<b>Qty. No(s)/Sets</b>
78.	Fire Fighting Equipment/Tools	01set
79.	Electronics Test Instruments (different types)	As per trg. Needs
80.	Computer System	01
81.	O.H.P.	01
82.	Multimedia Projector	01
83.	Laboratory Tools (different types) As per training needs	16 Sets
84.	Laboratory Table	10
85.	Class Room Chair	35
86.	Lecture Stand	02
87.	White Board (Magnetic) with moveable stand	06
88.	Steel Almirah/Storage Cabinet	20
89.	Book Shelf/Book Case	10
90.	Table for staff	20
91.	Chair for staff with fabric cushioned seat and back revolving arms and adjustable height student/visitor chairs	20
92.	Side Rack	20
93.	Computer Table	20
94.	Computer side-rack	20
95.	Floppy/CD storage cabinet(fire resistant)	30
96.	Laboratory Stool (revolving)with cushioned seat	35
97.	Printer Table	10
98.	Trolley for OHP	05
99.	Fowler Bed	02
100.	Patient Examination Table	05
101.	Instrument Trolley	10
102.	Bed side screen	05
103.	Solid Linen Trolley	05
104.	Bed side locker	05

Sr.No.	Description of Equipment/Tools	Qty. No(s)/Sets
105.	Computer System	20
106.	O.H.P.	05

**NOTE:**

In addition to the above, laboratories in respect of physics, chemistry, applied mechanics, strength of materials, general engineering, workshops, Computer Centre etc will be required for effective implementation of the course. Provision for overhead projectors, TV with VCR facility, slide cum strip projector, photocopiers, PC-XT facilities along with LCD Projection System, drafting machines etc has also to be made.

**10.1.3 Furniture Requirement**

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

**10.2 Human Resources Development:**

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