



## Criterion 4 - Infrastructure and Learning Resources

### 4.2 Clinical, Equipment and Laboratory Learning Resources

#### 4.2.1 Teaching Hospital, equipment, clinical teaching-learning, and laboratory facilities are as stipulated by the respective Regulatory Bodies

##### Response:

##### CLINICAL TEACHING AND LEARNING:

Each of these departments manages an out-patient ward where students can examine/perform therapeutic procedures, seminar hall for teaching/ presentations, laboratory for pre-clinical exercises / biochemical investigations and a research facility with equipment to perform basic medical/dental and clinical projects. The clinical/laboratory/academic space is allocated based on the DCI regulations. All our departments have the necessary clinical/laboratory materials as stipulated by the DCI. The basic clinical requirement is the flow of patients to the Dental OPD in particular, and Medical OPD for learning the basic medicine. The number of patients visiting our hospital is more than sufficient for our students to thoroughly learn all the basic and certain advanced clinical dental procedures. The basic clinical equipment's and materials that are required, are governed by the regulations of the DCI. ARDCH possesses several pre-clinical laboratories where our students can learn the basic clinical dental exercises on models before performing the same on patients. Mannequins for IV & IM injection technique. Laboratory space to learn basic dental exercises like cement mixing, impression making, duplicating impression models etc. Advanced Dental equipment's ARDCH also possesses the following numerous specialized dental therapeutic procedures.

##### Laboratory Facilities:

##### 1. Basic Clinical Equipment's:

The basic clinical equipment's / materials that are required, are governed by the regulations of the DCI. These include:

1. Dental Chairs
2. Operating Theaters
3. Ultrasonic Scalers
4. Airtor Handpieces
5. Restorative Cements of different types
6. Impression Materials
7. X-rays:

Regular dental X-ray units, Digital X-ray units

1. CBCT & OPG unit for full mouth imaging
2. Lateral cephalogram for orthodontics imaging
3. Autoclaves for sterilization of instruments
4. Fumigation equipment for sterilization of the minor operating theatre



5. Instruments for performing tooth extractions, surgical tooth removal, minor oral surgical procedures.
6. Pre-clinical laboratory

ARDCH possesses several pre-clinical laboratories where our students can learn the basic clinical dental exercises on models before performing the same on patients. The following are available in the labs.

- Mannequins for BLS
- Mannequins for IV & IM injection technique
- Dental Models to perform cavity preparations, tooth preparations.
- Dental handpieces
- Laboratory space to learn basic dental exercises like cement mixing, impression making, duplicating impression models etc.
- Tooth Morphology lab with workstations, demonstration models, white/black boards and charts
- Patient education room for teaching the patients proper oral hygiene measures with required models for demonstration.
- Clinical laboratory spaces

Our institution also houses a laboratory where fabrication of dentures/artificial teeth/histological analysis is performed. The equipment's present include Induction casting machines, Burnout furnaces, Micromotors, Metal grinders, Sandblasters, Duplicator equipment, Vacuum investors, Ceramic finishing kits, Metal finishing kits, Microtome, Tissue Processing unit.

### **1. Advanced Dental Equipment's**

ARDCH also possesses the following numerous specialized dental instruments to perform advanced dental therapeutic procedures.

1. Endosonic Handpieces
2. Dental LASER
3. Piezo for surgeries
4. Cryotherapy unit
5. Loupes for microsurgery
6. Fiberoptic intubation scope
7. Implant physio dispenser with surgical kits of different systems
8. Faced software for ortho treatment planning.
9. Specialized operating dental microscopes.
10. Micro surgical instruments
11. Bleaching and micro abrasion equipment's
12. Injectable thermoplasticized gutta percha
13. Penta head microscope and Stereo microscope
14. 10W laser unit
15. Research microscope
16. Semiautomatic Microtome
17. Biochemical and Haematology Analyser



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### 18. Trinocular microscope with adaption for photomicrography

All the equipment's stated above are adequate to cater to the academic and clinical requirements of the students and as per the norms prescribed by DCI.

<b>Infrastructure</b>	<b>Availability</b>
Administrative block	3000 sq. ft.
Library	8750 sq. ft.
Lecture Halls – 4	6400 sq. ft.
Central Stores	800 sq. ft.
Maintenance room	1000 sq. ft.
Photography and artist room	400 sq. ft.
Medical Stores cum Pharmacy	300 sq. ft.
Faculty Rooms – Dental Faculty	2200 sq. ft.
Faculty Rooms – Medical Basic Science	1550 sq. ft.
Amenities Area to include boys and girl's locker room, boys and girls common rooms, Common room for non-teaching staff, common room for teaching staff, change room for men, change room for women.	3200 sq. ft.
Room for Gas Cylinder (ventilated)	200 sq. ft.
Compressor and Room for Gas Plant	350 sq. ft.
Cafeteria	1550 sq. ft.
Examination hall	3600 sq. ft.
Auditorium (To accommodate at least 500 people)	5000 sq. ft. (approx..)
Clinical Area (for different specialty departments)	25000 sq. ft.



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	(200 Dental Chairs X 125 sq. Ft./per chair)
Wards Male and Female to accommodate 20 Beds, Central Store, Departmental Store, Major and Minor O.T. etc.	Remaining Area (7500 sq. ft.)
Pre-clinical Prosthodontics and dental material lab	3050 sq. ft.
Pre-clinical conservative lab	2600 sq. ft.
Laboratories for Orthodontics and Pedodontics	1500 sq. ft.
Anatomy dissection hall with storage for cadavers, osteology, demonstration room etc.	2500 sq. ft.
One laboratory for physiology with stores and preparation rooms.	2500 sq. ft.
Laboratory for biochemistry and Pharmacology	2500 sq. ft.
Prosthodontics Cast Partial and Ceramic	3050 sq. ft.
Conservative Clinical Lab	2600 sq. ft.
Histopathology Lab for Oral Pathology	2500 sq. ft.
Laboratories for Orthodontics and Pedodontics	1600 sq. ft.
Automated Haematology and Clinical Biochemistry	300 sq. ft.
CBCT room and OPG room	
AREB certified Radiographic Room along with Dark Room	1200 sq. ft.

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