

**Steps Taken To Improve Pre-
Clinical Skills And Details Of
Facilities Available**



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**The Institution Ensures Adequate Training for Students in Pre-Clinical Skills.
Describe the Steps Taken to Improve Pre-Clinical Skills Along with Details of Facilities Available for Students such as Pre-Clinical Skill Labs.**

All students of BDS & MDS programs are trained in various laboratories to make them proficient in preclinical skills. The students work on models to simulate the oral structures which helps them in attaining proficiency before treating patients in their respective clinics.

There are 24 well-equipped labs in ACDS. These include:

Sr No	Year of Study	Subject	Name of Laboratory
1.	BDS 1 st year	Anatomy	1.Cadaver Dissection 2.Histology 3.Osteology 4.Anatomical Specimen
		Physiology	5.Physiology
		Biochemistry	6.Biochemistry
		Dental Anatomy	7.Dental Anatomy
		Dental Material	8.Dental Materials Lab
2.	BDS 2 nd Year	Pharmacology	9.Pharmacology Lab
		General Pathology	10.General Pathology Lab
		Microbiology	11.Microbiology Lab
		Pre-Clinical Prosthodontics	12.Pre- Clinical Prosthodontics Phantom Head Lab
		Pre-Clinical Conservative Dentistry	13.Pre-Clinical Conservative Phantom Head Lab
3.	BDS 3 rd Year	Oral Pathology and Microbiology	14.Oral Pathology and Microbiology Lab
4.	BDS 4 th Year	Prosthodontics	15.Crown and Bridge Lab 16.Ceramic & Cast partial Lab 17. Acrylic Lab
		Conservative and Endodontics	18.Conservative and Endodontics Lab
		Orthodontics	19.Orthodontics Preclinical Lab
		Pedodontics	20.Pedodontics Preclinical Lab

	Oral and Maxillofacial Surgery	21.Oral and Maxillofacial Surgery Lab 22.Advanced Simulation Surgical skills Lab 23. Basic Life Support lab
	Periodontics	24. Periodontics Preclinical Lab

Medical Laboratories:

The various labs are present in the departments of Human Anatomy, Histology & Osteology, Human Physiology, Human Biochemistry.

In the Anatomy lab, cadaver dissection is done to learn the intricacies of anatomy, its microscopic structures and the bony skeleton. In addition, the normal functions of the human body and estimation of body parameters and fluids are done in the departments of Physiology and Biochemistry, for the first year of BDS program.

During the second year the departments of Pharmacology, General Pathology & General Microbiology have simulation models to learn the preparation of poultices, medicaments, sample organ specimens, microscopic slides, analysers for body fluids & estimation of the same.

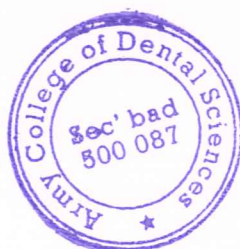
Dental Laboratories:

Simultaneously the dental labs that deal with the Oral & facial structures are available in the department of Dental Anatomy. The intricacies of dental anatomy & manipulation of dental materials such as plaster of paris, gypsum, heat cure and self-cure resins, prepare temporary and permanent denture base, special tray, occlusion rims and arrangement of teeth to simulate, complete dentures are fabricated on dental casts preclinical training in Prosthetics and Conservative dentistry are done in the first two years of study.

The clinical subjects also have preclinical labs and exercises to practice on dental models before they handle patients in the respective departments.

There is an advanced simulation lab in OMFS that helps the Postgraduates to practice their higher-order skills which improve their tactile sensitivity & haptic feedback by mimicking real-life situations.

The basic life support simulation lab is equipped with Cardio Pulmonary Resuscitation [CPR] training mannequins, an airway management mannequin, an arm mannequin to practice access to blood vessels & muscles to introduce drugs & solutions to the human body. The catheterization mannequin helps the trainee learn the method of gaining access to the urethra & bladder. In addition, an Automatic Emergency Device [Defibrillator] is available for training for medical emergencies.



(Signature)
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