



AMC DENTAL COLLEGE

Khokhra, Ahmedabad 380008

Affiliated to Gujarat University

SELF STUDY REPORT (CYCLE 1) 2022-2023

CRITERIA: 4:Infrastructure and Learning Resources

KEY INDICATOR: 4.2 Clinical, Equipment and Laboratory

METRIC: 4.2.3: Average number of students per year exposed to learning resource such as Laboratories, Animal House & Herbal Garden (in house OR hired) during the last five years



भारतीय दन्त परिषद
Dental Council of India



Data

MEDICAL EDUCATION
No. 51

Details of laboratories



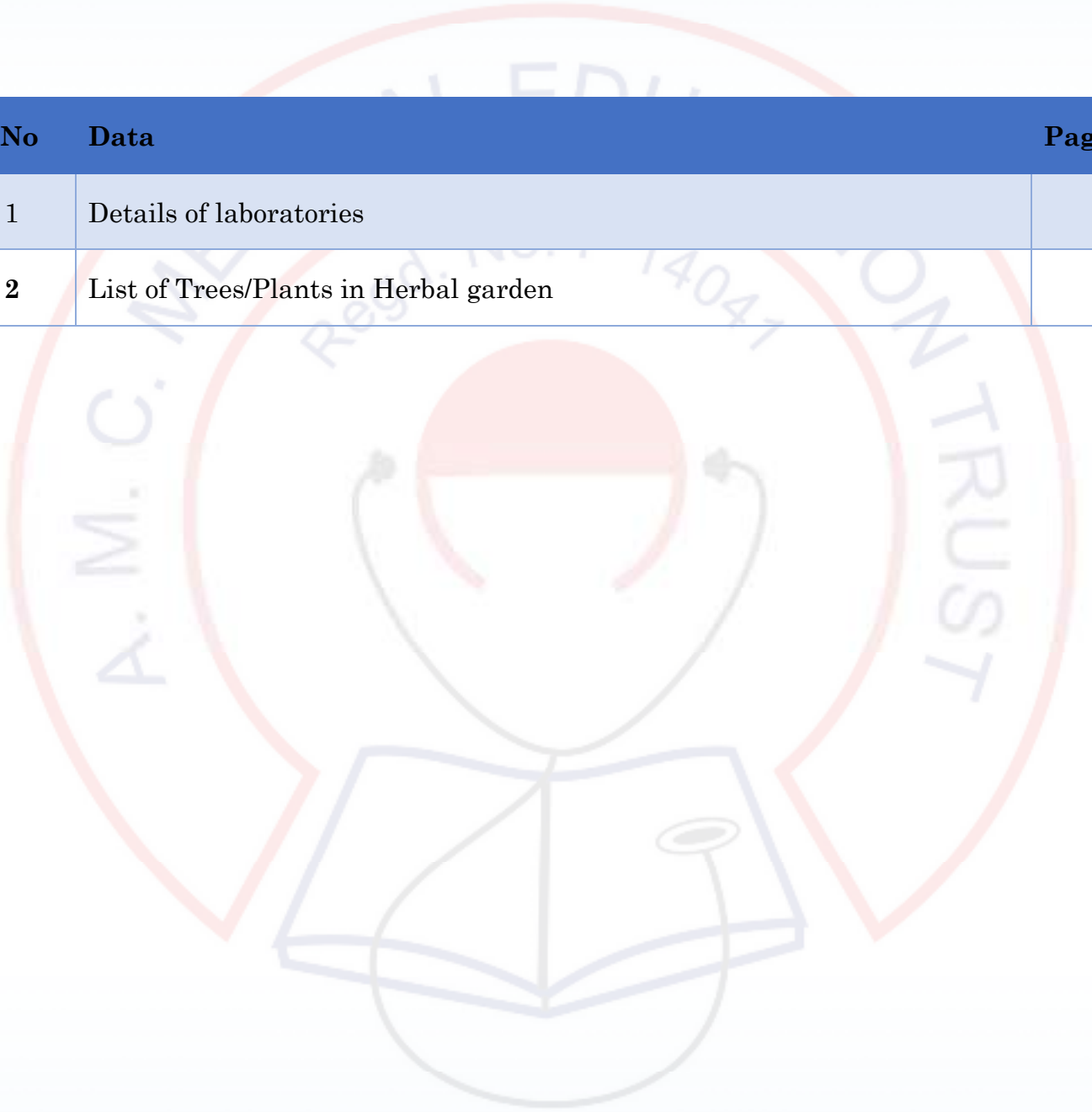


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AMC DENTAL COLLEGE AND HOSPITAL

DETAILS OF LABORATORIES

Human Anatomy: Cadavers, graciously donated for scientific study, serve as a crucial tool for students to explore and comprehend the intricacies of human anatomy. This hands-on experience involves dissecting and examining the donated bodies, enabling students to delve into the structure, organization, and interrelationships of various organs and systems.

Histology Laboratory: Dedicated to the examination of tissues under a microscope, this facility offers students the chance to prepare and study thin tissue slices. Through staining techniques, different cellular structures are highlighted, providing valuable insights into the microscopic anatomy of tissues and the organization of cells.

Biochemistry Laboratory: Within this lab, students delve into the chemical processes and reactions occurring in living organisms. Through hands-on experiments, they analyze biological molecules, including proteins, nucleic acids, and carbohydrates, gaining a profound understanding of their roles in cellular processes and metabolism. This lab contributes to comprehending the biochemical foundations of life and diverse diseases.

Physiology Laboratory: Focused on unraveling the functions and mechanisms of various organs and systems in the human body, the physiology lab equips students with tools to measure and record physiological parameters. From heart rate to respiratory rate, students conduct experiments to observe and analyze physiological processes, deepening their understanding of the body's intricate functions.

Pathology and Microbiology Laboratory: The well-equipped Pathology and Microbiology laboratory is furnished with instruments and culture media to facilitate the study of microbial pathogens and pathological specimens. Featuring microscopes, incubators, autoclaves, and staining equipment, this space enables students to perform microbiological techniques, analyze pathological samples, and explore disease processes.

Pharmacology Laboratory: Centered on the study of drugs and their effects on living systems, the pharmacology laboratory guides students through the intricacies of drug action, absorption,

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distribution, metabolism, and excretion. Conducting experiments with various drugs, students gain insights into drug interactions, therapeutic uses, and potential side effects.

UG Prosthodontic & Crown & Bridge Laboratory: Exclusively designed for undergraduate dental students specializing in prosthodontics, this laboratory provides facilities and tools for learning and practicing procedures related to the restoration and replacement of teeth. Equipped with processing units, including a plaster and stone dispenser, lathe cut machine, and denture processing unit, it covers the entire spectrum of prosthesis fabrication.

PG Prosthodontic & Crown & Bridge Laboratory: Tailored for postgraduate dental students specializing in prosthodontics, this advanced laboratory enhances skills and knowledge in complex prosthodontic procedures. Augmented with additional equipment from the undergraduate clinic, it enables precise and efficient work.

Casting Laboratory: The Central Laboratory within the Department of Prosthodontics & Crown & Bridge features advanced equipment in the field of prosthodontics. With tools like Electro polisher Burnout furnace and casting machine, this lab is accessible for both staff seluncians and Wi students.

Ceramic Laboratory: Focused on the fabrication and characterization of dental ceramics, the Ceramic Laboratory provides essential materials for students to practice techniques related to dental ceramic restorations. Students work on designing, shaping, and firing ceramic restorations to achieve optimal aesthetics and functionality.

Preclinical Laboratory: This separate preclinical laboratory for second-year undergraduates and first-year postgraduates allows students to practice and develop skills before working with actual patients. Equipped with models, homers, and instrument trays, it serves as a training ground for mastering procedures.

Conservative Preclinical Laboratory: Catering to students not yet exposed to clinics and patients, this laboratory provides infrastructure and resources for honing skills in tooth restoration and conservation techniques. Through simulation models, students receive individualized training in basic conservative treatment procedures.

Conservative Ceramic Laboratory: Dedicated to students learning advanced techniques in ceramic restorations and prosthesis, this laboratory offers specialized equipment and materials for fabricating precise and aesthetically pleasing ceramic restorations and prosthesis.

Conservative Plaster Laboratory: Equipped with a stone and plaster dispenser with a cast trimmer, this laboratory trains students on the proportions and procedures of plaster mixing. Impressions acquired from clinical areas are poured and processed in this facility.

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Oral Pathology Laboratory: Serving as a preclinical laboratory for first-year students in the Department of Oral Pathology, this space accommodates 75 students at a time. Here, students are taught dental anatomy and trained for wax carvings.

Histopathology Laboratory: Focused on the study of diseased tissues and blood samples, this laboratory allows students to examine tissue specimens under a microscope, identifying pathological changes and diagnosing diseases. Equipped with microscopes, slide preparation tools, and staining equipment, it facilitates the examination of biopsy samples, cytology smears, and oral pathology specimens.

Orthodontic & Dentofacial Orthopedics Laboratory: Supporting the diagnosis, treatment planning, and fabrication of orthodontic appliances, this laboratory houses specialized equipment such as cephalometric analysis tools, dental models, wire-bending instruments, a hydro-soldering machine, a biostar machine, and orthodontic pliers. It enables students to study dental and skeletal relationships, plan orthodontic treatments, and create customized orthodontic appliances.


Pedodontic & Preventive Dentistry Laboratory: Focused on pediatric dentistry, this laboratory caters to the specific needs of children. Equipped with a stone and plaster dispenser, a trimmer, and a soldering and welding machine, it supports dental students and pediatric dentists in delivering age-appropriate dental care, ensuring a positive dental experience for children


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LIST OF TREES/PLANTS IN HERBAL GARDEN

SR. NO.	BOTANICAL NAME OF TREE	GUJARATI NAME
1.	Polyalthia Longifolia	આસોપાલવ
2.	Citrus limon	લીંબુનુંવૃક્ષ
3.	Ficus religiosa	પીપળનુંવૃક્ષ
4.	Vitex negundo	નાગોડનુંવૃક્ષ
5.	Prosopis cineraria	શમીનુંવૃક્ષ
6.	Handroanthus Impetiginosus	તેબુબિયાનુંવૃક્ષ
7.	Terminalia arjuna	અર્જુનનુંવૃક્ષ
8.	Adhatodavasica	અદડુસી
9.	Syzygium cumimi	જાંબુનુંવૃક્ષ
10.	Alstomia Scholaris	સપ્તપરણી
11.	Prunus dulcis	બદામનુંવૃક્ષ
12.	Morus alba	સેતૂરનુંવૃક્ષ
13.	Gmelina arborea	સેવનનુંવૃક્ષ
14.	Mimusops Elengi	બોરસાલીનુંવૃક્ષ
15.	Azadirachia indica	લીમડાનુંવૃક્ષ
16.	Betula utilis	ભોજપત્રનુંવૃક્ષ
17.	Nerium oleander	કનેરનુંવૃક્ષ
18.	Pongamia pinnata	કરંજનુંવૃક્ષ
19.	Hibiscus Rosa Sinensis	જાસુદનોછોડ
20.	Absus precutorius	ચનોઠીનુંવૃક્ષ
21.	Delonix regia	ગુલમહોરનોછોડ
22.	Ficus benghalensis	વડનુંવૃક્ષ
23.	Tecamella undulata	રોળિયાનુંવૃક્ષ


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