



**TATYASAHEB KORE DENTAL COLLEGE AND
RESEARCH CENTRE NEW PARGAON – 416 113**
Tal.: Hatkanangale Dist.:Kolhapur (Maharashtra State)
Ph. 0230 2477081 – 82

Annual Quality Assurance Report



Criterion - 4

Infrastructure and Learning Resources

Key Indicator: 4.1

Physical Facilities

Metric Number - 4.1.1 (QIM)

The institution has adequate facilities for teaching learning viz. classrooms, computer equipment etc.

List of Teaching and Learning Facilities



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Criteria 4.1.1: List of teaching learning facilities

- 4 classrooms with LAN and WI-FI connection
- LCD projector and screen in all class rooms and seminar rooms
- Satellite centres at Bhadole and Warananagar centre for community learning.
- The Central Library is spread across 5571 sq. ft. with a 200-seat capacity.
- A common teleconference room equipped with LAN, Wi-Fi connection, LCD Projector, Screen with audio facilities.

<u>Classrooms</u>	<u>Location</u>	<u>Area in Sq meter</u>	<u>Capacity</u>	<u>ICT facilities</u>	<u>Newly Added</u>
Lecture hall 1	Basement Dental College	76.181	60	LCD Projector, Screen, WI-FI and LAN	Smart Board
Lecture hall 2	1 st floor Dental College	111.03	120	LCD Projector, Screen, WI-FI and LAN	Smart Board
Lecture hall 3	1 st floor Medical Hospital	62.017	60	LCD Projector, Screen, WI-FI and LAN	-----
Lecture hall 4	1 st floor Medical Hospital	60.27	60	LCD Projector, Screen, WI-FI and LAN	-----
Teleconference room	Ground floor Dental College	37.08	30	LCD Projector, Screen, WI-FI and LAN	-----


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Each classroom provides a conducive environment for learning and interaction. The lecture halls are well-equipped with modern ICT facilities, including LCD projector, screen, WI-FI, and LAN connections. These resources enhance the teaching and learning experience by enabling multimedia presentations, digital content sharing, and internet connectivity.

Lecture hall 1, located in the basement of the Dental College, has an area of 76.181 square meters and can accommodate up to 60 individuals. Similarly, lecture hall 2, situated on the first floor of the Dental College, offers a larger capacity of 120 people within an area of 111.03 square meters. Both these lecture halls provide the necessary ICT infrastructure to support various teaching methodologies. Lecture halls 3 and 4, situated on the first floor of the Medical Hospital, are slightly smaller in size with areas of 62.017 and 60.27 square meters, respectively. However, they still accommodate 60 students each and feature LCD projector, screen, WI-FI, and LAN connections.

The teleconference room, located on the ground floor of the Dental College, is specifically designed for virtual meetings and discussions. With an area of 37.08 square meters, it can accommodate up to 30 participants. The room is equipped with LCD projector, screen, WI-FI, and LAN connectivity, facilitating seamless teleconferencing and multimedia presentations.

Overall, these classrooms are well-furnished, technologically advanced, and strategically positioned to meet the educational needs of students and professionals in the Dental College and Medical Hospital.

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Seminar rooms:

Sr. No	Departments	Area in Sq meter	Capacity	<u>ICT facilities</u>
1	Conservative Dentistry and Endodontics	32.38	30	LCD Projector, Screen, WI-FI and LAN
2	Periodontology	37.94	30	LCD Projector, Screen, WI-FI and LAN
3	Orthodontics and Dentofacial Orthopedics	38.66	30	LCD Projector, Screen, WI-FI and LAN
4	Prosthodontics and Crown and Bridge	47.12	30	LCD Projector, Screen, WI-FI and LAN
5	Pedodontics and Preventive Dentistry	17.20	15	LCD Projector, Screen, WI-FI and LAN


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The following is a description of the seminar rooms associated with each department mentioned in the list:

1. **Conservative Dentistry and Endodontics**

- Area: 32.38 square meters

- Capacity: 30 individuals

- ICT Facilities: The seminar room for the Conservative and Endodontics department is equipped with an LCD projector, screen, WI-FI, and LAN connections. These facilities enable effective presentations, sharing of digital content, and access to online resources during seminars and educational sessions.

2. **Periodontology**

- Area: 37.94 square meters

- Capacity: 30 individuals

- ICT Facilities: The seminar room for the Periodontology department is equipped with an LCD projector, screen, WI-FI, and LAN connections. These ICT facilities facilitate interactive presentations, visual demonstrations, and connectivity for accessing online materials relevant to the field of periodontology.

3. **Orthodontics and Dentofacial Orthopaedics:**

- Area: 38.66 square meters

- Capacity: 30 individuals

- ICT Facilities: The seminar room for the Orthodontics department features an LCD projector, screen, WI-FI, and LAN connections. These ICT facilities support the sharing of educational content, visual aids, and online resources to enhance the learning experience and facilitate discussions related to orthodontics.

4. **Prosthodontics and Crown and Bridge:**

- Area: 47.12 square meters

- Capacity: 30 individuals

- ICT Facilities: The seminar room for the Prosthodontics department is equipped with an LCD projector, screen, WI-FI, and LAN connections. These facilities enable the delivery of high-quality presentations, multimedia demonstrations, and access to digital materials for comprehensive learning and knowledge exchange in the field of prosthodontics.

5. **Pedodontics and Preventive Dentistry:**

- Area: 17.202 square meters

- Capacity: 15 individuals

- ICT Facilities: The seminar room for the Pedodontics department is equipped with an LCD projector, screen, WI-FI, and LAN connections. These ICT facilities support the delivery of interactive presentations, audiovisual materials, and online resources for effective teaching and discussions specific to pediatric dentistry.

These seminar rooms within each department provide dedicated spaces for conducting educational seminars, workshops, and interactive sessions. The areas are specified in square meters, indicating the size of the rooms, while the capacity denotes the number of individuals that can be accommodated. The inclusion of ICT facilities such as LCD projector, screen, and connectivity options (WI-FI and LAN) ensures the integration of technology for seamless presentations, visual aids, and access to online resources during the seminars.

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19 Well equipped Laboratories:

S.NO	Department	Number of Laboratories	Area in sq meter	Capacity
1.	Human Anatomy	1	96.61	60
2.	Histology	1	10.996	60
3.	Biochemistry	1	38.75	60
4.	Physiology	1	53.848	60
5.	General Pathology and microbiology	1	50.303	30
6.	Pharmacology	1	68.005	30
7.	Prosthodontics and Crown and Bridge 05	Ug lab	27.58	60
		Pg lab	18.36	
		Ceramic lab	18.8	
		Central lab	57.1	
		preclinical	183.35	
8.	Conservative Dentistry and Endodontics 03	Preclinical	152.09	60
		Ceramic Lab	12.76	
		Plaster Lab	12.67	
9.	Oral Pathology and Microbiology	Practical lab	282.83	60
		Histopathological	18.95	
		Haematological	18.95	
10.	Orthodontics	1 (Dry & Wet)	15.033	60
11.	Pedodontics	1	6.932	10

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1. Human Anatomy:

The Human Anatomy laboratory is fully equipped with facilities for the study of various head and neck anatomical structures. It includes anatomical models, dissection tools, cadavers, and other resources. These resources enable students to explore the complexities of the human body, conduct dissections, and gain hands-on experience in understanding anatomical structures.

2. Histology:

The Histology laboratory is equipped with advanced microscopes, tissue processing equipment, and staining facilities. It provides students with the necessary tools to study the microscopic structure of tissues and cells. This laboratory enables students to examine histological slides to understand the cellular composition and organization of various tissues.

3. Biochemistry:

The Biochemistry laboratory is well-equipped with instruments for biochemical analysis. These resources allow students to perform experiments related to metabolism, and biochemical reactions. The laboratory also provides access to reagents and chemicals for conducting various biochemical assays.

4. Physiology:

The Physiology laboratory is equipped with physiological measurement devices, such as spirometers, and blood pressure monitors. It provides students with hands-on experience in conducting experiments to study physiological functions and processes.

5. General Pathology and Microbiology:

The General Pathology and Microbiology laboratory is well-equipped with instruments and culture media for studying microbial pathogens and pathological specimens. It includes microscopes, incubators, autoclaves, and staining equipment. Students can perform microbiological techniques, analyze pathological samples, and study disease processes in this laboratory.

6. Pharmacology Laboratory: The pharmacology laboratory focuses on the study of drugs and their effects on living systems. Students learn about drug action, absorption, distribution, metabolism, and excretion.

7. UG Prosthodontic & Crown & Bridge Laboratory: This laboratory is specifically designed for undergraduate dental students specializing in prosthodontics. It provides facilities and tools for students to learn and practice procedures related to the restoration and replacement of teeth. The laboratory is equipped with various processing units including plaster and stone dispenser, lathe cut machine, denture processing unit. The laboratory exposes students to all the laboratory fabrication of prosthesis.

8. PG Prosthodontic & Crown & Bridge Laboratory: This laboratory is dedicated to postgraduate dental students specializing in prosthodontics. It offers advanced facilities and equipment to enhance their skills

and knowledge in complex prosthodontic procedures with addition to the equipments in undergraduate's clinic. These advanced tools help students perform the work more efficiently and precisely.

9. Central Laboratory: Central Laboratory in Department of Prosthodontics & Crown & Bridge is a space dedicated to advanced equipment's in the field of prosthodontics. The laboratory consists of Electro polisher, Burnout furnace, and casting machine. The laboratory is accessible for the staff, technicians and PG students.

10. Ceramic Laboratory: The ceramic laboratory focuses on the fabrication and characterization of dental ceramics. It provides the necessary equipment and materials for students to learn and practice techniques related to dental ceramic restorations. Students work on designing, shaping, and firing ceramic restorations to achieve optimal aesthetics and functionality.

11. Preclinical laboratory: Department of Prosthodontics & Crown & Bridge also holds a separate preclinical laboratory for second year undergraduate and first year post graduate students where the students practice and develop the skill before they start actual patients. The lab is equipped with burners and instrument trays for the students.

12. Conservative Preclinical Laboratory: This laboratory specifically caters to students that are still not exposed to clinic and patients. It provides the infrastructure and resources necessary for students to practice and refine their skills in tooth restoration and conservation techniques, with the help of simulation models. The students are individually provided with a model where they are trained for basic conservative treatment procedures.

13. Conservative Ceramic Laboratory: The conservative ceramic laboratory is dedicated to students learning advanced techniques in ceramic restorations and prosthesis. It offers specialized equipment and materials to fabricate precise and aesthetically pleasing ceramic restorations & prosthesis, such as crowns, inlays, onlays, and veneers.

14. Conservative Plaster Laboratory: The conservative plaster laboratory is equipped with stone and plaster dispenser with cast trimmer. Students are trained about the proportions and procedure of plaster mixing here. The impressions acquired from clinical area are poured and further processed here.

15. Oral Pathology laboratory: Practical laboratory in the department of oral pathology is a preclinical laboratory for first year students. The laboratory can accommodate 75 students at a time. The students are taught dental anatomy and trained for wax carvings here.


16. Histopathology Laboratory: This laboratory focuses on the study of diseased tissues and blood samples. It allows students to examine tissue specimens under a microscope to identify pathological changes and diagnose diseases. It is equipped with microscopes, slide preparation tools, and staining equipment. This laboratory facilitates the examination of biopsy samples, cytology smears, and other oral pathology specimens. The laboratory has recently equipped with a trinocular microscope with camera and LED screen

that allows amplified and clear images of slide. Additionally, students learn about the analysis of blood samples to study various blood disorders and abnormalities.

17. Hematology laboratory: The Hematology Laboratory plays a vital role in diagnosing and monitoring blood disorders in patients. Equipped with state-of-the-art technology, the lab conducts various tests including CBC BT, CT, BSL to analyze blood samples for abnormalities, such as anemia or blood clotting disorders.

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

19. Pedodontic & Preventive Dentistry Laboratory: The Pedodontics laboratory focuses on pediatric dentistry and caters to the specific needs of children. The laboratory is equipped with stone and plaster a dispenser, a trimmer, a soldering and welding machine. The laboratory exposes students to chairside fabrication of minor prosthesis and corrections of the final prosthesis as and when needed. Procedures such as impression making, pouring of cast, correction of final prosthesis and soldering and welding of space maintainers are performed here. The Pedodontics laboratory supports dental students and pediatric dentists in delivering age-appropriate dental care, ensuring a positive dental experience for children



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