

8.1.2. 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.

The objectives of the Preclinical training is to introduce the students to laboratory and clinical procedures involved in dentistry in a simulated environment.

Our institution provides state of the art facilities in the preclinical laboratories. The preclinical laboratory for **Prosthodontics** has a seating capacity of 144 with individual Bunsen burner. The laboratory is equipped with Lathe, Model trimmer and Study models in the dry lab while the wet lab has Acrylizer, de-waxing unit and water heater. Preclinical prosthodontics curriculum is devised to introduce students in the laboratory wherein they learn fabrication of complete dentures, removable partial dentures and fabrication of various trays. The students are taught to manipulate various dental materials in the same laboratory.

With a seating capacity for one hundred students and 60 phantom heads, pre-clinical laboratory at **Conservative Dentistry and Endodontics** encourages to learn about at the clinical work on models. The laboratory is equipped with a simulator to help students understand better. Apart from the routine Typhodont exercise, the students are trained for cavity preparation in the natural teeth that the students are sufficiently equipped for taking up patients in the clinical section. Students are also trained for inlay wax pattern taking, access opening, bio mechanical preparation and obturation in natural teeth.

Preclinical laboratory at **Orthodontics** has a seating capacity for 100 students to perform all basic wire bending exercises. At the department of **Paediatric and Preventive Dentistry**, the preclinical laboratory can seat eight students at a time. It is equipped with model trimmers, lathe plaster dispenser and vibrator and micro motors.

In addition to the detailed demonstrations that are carried out in small groups, our programme involves video streaming of the pre-clinical exercises that are shared with the students for their reference. These videos are made by our faculty members using HD cameras. Each of these recordings includes a detailed step by step description of the particular exercise with a foot note explaining the procedure. They can watch it at their convenience on their laptops or smart phones. This technique provides a podium for open learning even in the absence of the facilitator. The success of a competency-based dental curriculum would greatly depend on students acquiring the necessary basic skills in order to practice dentistry safely and with greater confidence.

8.1.4. Orientation / Foundation courses practiced in the institution for students entering the college / clinics /internship

Every year an **induction ceremony** is conducted welcoming the new students to the professional dental course. The programme aims at introducing the students about the value of professional life and gives over view on various facilities in the college. The student counsellor briefs about the stress management and the support system the college offers to every student.

A **white coat ceremony** is organized every year. In this ceremony the students are made to take the "**Hippocratic Oath**" and is emphasized on the code of ethics and conduct which are to be honoured as they enter the professional career.

The students are introduced to the **mentor program** where students can obtain advice and guidance for some of the concerns involved during the duration of course. Mentors invite the students to participate in professional activities and help them to overcome the difficulty in the academic and social activities. The mentorship programme at the Rajas dental college ensures that the students find it easy to communicate openly and freely, provide feedback, to explore the career possibilities and work through problems with a new perspective.

On the 3rd Tuesday of every month **Clinical Society Meetings** are conducted which is designed to offer current concepts in clinical practice. The objective is to update the clinical knowledge of students and to enhance the degree of care and treatment methodology that will be beneficial to the patients. There will be three presentations each by a UG student, PG student and Teaching Staff from different clinical departments followed by question hour & certification.

Implant train, an innovative academic programme introduced by the college for the students was conceptualised keeping in mind the changing trends in implant dentistry. Restoration and replacement of missing teeth has undergone revolutionary changes with the advent of implants making it essential for the new graduates to equip themselves with the necessary knowledge and skill to perform implant treatment. Hence, an in house comprehensive training programme was designed exclusively for the interns. The students will be exposed to all steps of implant placement including case diagnosis, surgical management and insertion of the prosthesis.

Students are taught on the various ethical issues they may face in academic and clinical scenario. Ethical handling of cadavers, tissues, biopsy specimens and ethical dilemmas are stressed in an orientation programme for all the students, year wise.

8.1.8. The Institution has introduced objective methods to measure and certify attainment of specific clinical competencies by BDS students/interns as stated in the undergraduate curriculum by the Dental Council of India. Describe the objective methods adopted by the College to measure and certify the attainment of clinical competencies by BDS students/interns as stated in the undergraduate curriculum by the Dental Council of India

The institute lays emphasis that the student has acquired competent clinical skills and knowledge as the student appears for the final exam (for undergraduate and post graduate students). College has trained its staff, and post graduates in OSCE and case presentation for evaluating students' clinical skill and judgment. The OSCE provides a comprehensive picture of a student's knowledge of clinical concepts and areas of strength and weakness.

The institution had arranged a one day training workshop for the post graduates and staff in introducing the concept of OSCE and its relevance in assessing clinical competency.

However, the final assessment of the students is still held as per the guidelines by DCI / DR.MGR University.

Interns are also assessed by objective questions on every Wednesday to prepare them for the NEET exam.

8.1.10. The college has adopted methods to define and implement dental graduate attributes with a system of evaluation of attainment of the same.

The institute lays emphasis that the student has acquired competent clinical skills and knowledge as the student appear for the final exam (for undergraduate and post graduate students). College has implemented **Objective Structured Clinical Examination (OSCE)** and case presentation for evaluating students' clinical skills and judgment. OSCE provides an overall picture of the student's general knowledge across several disciplines, diagnostic and treatment planning skills, and presentation skills.

Both forms of student assessment encourage interactions with faculty members at the examination and provide immediate and formative feedback from the examiners. This enables faculty members to evaluate students' knowledge in pathophysiology, clinical diagnosis and treatment planning. The other disciplines/areas represented are orthodontics, operative dentistry, periodontology, endodontics, prosthodontics, oral health policy, problem solving and treatment planning in a community, oral and maxillofacial surgery, oral radiology and oral pathology, and pediatric dentistry

8.1.12. Dental education department of the College ensures quality of Faculty Development Programmes in emerging trends in Dental Educational Technology.

Institute organises several programmes to enhance and update the clinical skills of the faculties, post graduates and students. The following schedule is followed on monthly basis. It covers a wide range of meetings which emphasises on basic sciences to clinical sciences. Case discussions are held every month in the inter department meets and clinical skill development programmes are conducted for interns. Students are sensitised about social issues and responsibilities.