

## **8. Dental Indicator**

**8.1.1 NEET percentile scores of students enrolled for the BDS programme for the preceding academic year.**

**Response:**73.37

8.1.1.1 Institutional mean NEET percentile score

Response: 73.37

**8.1.2 The Institution ensures adequate training for students in pre-clinical skills**

**Response:**

CDSRC has well-equipped preclinical laboratories for UGs and PGs in the department of Prosthodontics, Conservative Dentistry, Pedodontics, Periodontics, Orthodontics, Oral surgery & medicine, Oral Pathology, General Pathology and Pharmacology, Microbiology, Anatomy, Physiology and Biochemistry. The students are divided into batches as per their Respective departmental postings.

**Objective and Adequacy of preclinical training:**

The objective of preclinical training is to introduce the students to laboratory procedures, manipulation of various restorative dental materials and learning standard operative procedures prior to working in clinics. CDSRC ensures adequate preclinical training by following the regulations laid by DCI. This is achieved by recruitment of well trained and experienced teaching staffs, procuring necessary equipments and materials.

**Equipment/ Infrastructure of preclinical area (UGs& PGs):**

Preclinical prosthodontics is Well equipped with lab that has Lathe, Model trimmer and Study models and wet lab has Acrylizer, de- waxing unit and water heater. As per curriculum students learn to fabricate complete dentures, non removable & removable partial dentures. The students learn to manipulate various dental materials in the same laboratory.

Pre-clinical conservative dentistry laboratory has 60 phantom heads and with the seating capacity of 100 students at a time. These encourages to learn pre-clinical work on typhodont models under rubber dam. Students are trained for tooth preparation in the natural teeth too.

In the Department of Orthodontics, undergraduate students are trained to perform wire bending and it has seating capacity of 100 students at a time. they also prepare study models with alginate impressions.

Preclinical laboratory of pediatric & preventive dentistry is well equipped with micromotors, model trimmers etc.

### **Measures to improve preclinical skills:**

Recording of video for demonstration are shared by enabling use of multimedia with provision of smart TVs, **audio visual aids** and WhatsApp group created for students, for revision and ease of learning.

1. **Special program for slow learners and advance learners** that also includes additional discussion on clinically and academically important topics during their preclinical posting, creating an additional emphasis for slow learners and teaching future topics for advance learners.
2. **Emphasis on isolation at preclinical level** by use of rubber dam for preclinical conservative exercises, that helps acquire expertise towards the usage of rubber dam.
3. Conducting **parents-teachers meeting** annually not only updates parents about students' progress but also helps in one to one interaction of students and parents with teachers.
4. Implementation of **OSCE is initiated** by updating the preclinical conservative records which has helped in better and unbiased assessment patterns. Two internal assessments and preliminary practical examinations are conducted by recruitment of various stations as per OSCE in addition to the regular examination pattern according to University and DCI.
5. **Encouraging students to participate in CDE programs and conferences, professional development lectures** by eminent speakers keep them updated about current trends.
6. Teaching during pandemic like **COVID by use of online modes i.e conducting lectures and discussion via ZOOM meetings** have been a pillar for continuation of education.

#### **8.1.3 Institution follows infection control protocols during clinical teaching**

**Central Sterile Supplies Department (CSSD) (Registers maintained)**

**Provides Personal PROTECTIVE FACE SHEILD MASK & SURGICAL GOWN while working in the clinic**

**Patient safety curriculum**

**Periodic fumigation / fogging for all clinical areas (Registers maintained)**

**Immunization of all the caregivers (Registers maintained)**

**Needle stick injury Register**

**Response:** A. All of the above

#### **8.1.4 Orientation/Foundation courses practiced in the institution for students entering the college/ clinics / internship:**

**Response:** COLLEGE OF DENTAL SCIENCE & REASERCH CENTRE, AHMEDABAD conducts **six** Orientation Program/Foundation Program every year for **First year, 2nd year, 3rd year, Final year, Interns and Post graduates.**

##### **Organizing the Orientation Programme:**

CDSRC organizes the orientation program through College Council Committee and IQAC committee after 2023. Coordinators of the orientation program are Dr. Nidhi Gupta for UGs and PGs respectively.

##### **Orientation Program:**

The newly joined students are given an extensive orientation on the BDS program, its requirements, scope and opportunities. The DCI and the University norms relating to the attendance regulations, academic schedules, practical work quota and discipline are explained in detail. Then they visit all the departments where faculty give a brief insight into the specifics about the specialties. They are also taken on a tour around the campus where the different locations like lecture halls, library, hostels, sport grounds, and general hospital.

##### **White Coat Ceremony:**

White coat ceremony is considered as an important journey towards health care career. It helps in symbolization of conversion of a lay person into a member of health care profession. This ceremony helps the students to take oath before starting their first year. The students are familiarized with guidelines regarding the expectations and responsibilities appropriate for dental profession prior to their first day of class. Some of the important responsibilities of dental profession in which our students are familiarized Professional Ethics, Treating all patients equally and satisfying for treatment needs and expectations.

##### **Internship Orientation:**

The very next day after the release of the final year result, the CRI posting schedule for the students based on university norms is prepared and circulated to all departments. The interns in-charge will give an orientation to the students regarding the rules, regulations and norms including their roles and responsibilities which are to be followed during internship cycle. They are exposed to various career guidance programmes and provided with ideas to attend foreign university examinations. They are also given entrance exam coaching by giving them mcq tests. They are also encouraged to initiate and perform research projects and subsequently publish their research upon successful completion.

##### **Parent Orientation (Under Any Other):**

Parents orientation sessions are conducted simultaneously along with the first year student orientation. This is to ensure that the parents are aware of the day to day functioning of the institution. Each departmental HOD will give a brief description of their specialty. This will be followed by appraising the parents about Learning Management System, Biometric Protocol and Rules for taking leaves by the Dental Education Unit and Hostel Committee respectively. The parents are taken to each of the first year departments, where they can directly interact with the faculties.

**8.1.5 The students are trained for using High End Equipment for Diagnostic and therapeutic purposes in the Institution.**

- 1. Cone Beam Computed Tomogram (CBCT)**
- 2. Imaging and morphometric softwares**
- 3. Endodontic microscope**
- 4. Dental LASER Unit**
- 5. Extended application of light based microscopy (phase contrast microscopy/polarized microscopy/fluorescent microscopy)**
- 6. Immunohistochemical (IHC) set up**

**Response:** A. All of the above

**8.1.6 Institution provides student training in specialized clinics and facilities for care and treatment such as:**

- 1. Comprehensive / integrated clinic**
- 2. Implant clinic**
- 3. Geriatric clinic**
- 4. Special health care needs clinic**
- 5. Tobacco cessation clinic**
- 6. Esthetic clinic**

**Response:** A. All of the above

**8.1.7 Average percentage of full-time teachers who have acquired additional postgraduate Degrees/Diplomas/Fellowships beyond the eligibility requirements from recognized centers/universities in India or abroad. (Eg: AB, FRCS, MRCP, FAMS, FAIMER & IFME Fellowships, Ph D in Dental Education etc.) during last five years**

**Response:** 1

**8.1.7.1 Number of fulltime teachers with additional PG Degrees /Diplomas /Fellowships/Master Trainer certificate**

2022-23	2021-22	2020-21	2019-20	2018-19
2	1	1	01	0

### **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**

Response: The institute lays emphasis on those students who as acquired competent clinical skills and knowledge when student appear 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 provide 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 / Affiliated University.

Measurement of attainment of clinical competencies is achieved as detailed below.

Written Examinations: The question paper contains different types of questions like essay, short answer and objective type / M.C.Qs.

The nature of questions set, are aimed to evaluate students.

Three internal assessment examinations are conducted.

#### **Clinical Examination:**

Objective Structured Clinical Examination

Records and log books

Case history taking

Chair side Viva on case history and treatment rendered

Grand Viva Voce

CASE presentations, seminars

### **8.1.9 Average percentage of first year students, provided with prophylactic immunization against communicable diseases like covid 19 during their clinical work in the last five years.**

<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>100</b>	<b>96</b>	<b>98</b>	<b>93</b>	<b>100</b>

#### **8.1.9.2 Number of first year Students admitted in last five years**

<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>100</b>	<b>96</b>	<b>98</b>	<b>93</b>	<b>100</b>

#### **VACCINATION AND IMMUNIZATION:**

Three dose of corona vaccine schedule

1<sup>st</sup> Dose- The day of vaccination

2<sup>nd</sup> Dose- One month after 1<sup>st</sup> dose

3<sup>rd</sup> Dose- 1 year after 1<sup>st</sup> dose

### **8.1.10 The College has adopted methods to define and implement Dental graduate attributes with a system of evaluation of attainment of such attributes**

Graduate attributes deployed by the college are listed below.

1. Graduate with clinical and technical aspects of dentistry as is required for general dental practice.
2. Broad knowledge of normal structure and function leads to understanding of disease with medical ,dental management for prevention and treatment.
3. Undertaking of total oral and dental health care of the patients of all ages is done.
4. To know the influence of social behavioral environmental and economic factors on oral and general health care.
5. Being a member of the health care team delivering medical and oral health care particularly among the rural population.
6. Scientific advancement of any profession is based largely on continuous research activity
7. Self-centric learning for continuous upgradation of dental science.
8. Gains knowledge in newer technologies of the dental field.
9. Its implications to be followed in dental practice.
10. Helps to pursue forensic sciences as a carrier as well as maintenance of records which could provide useful means for forensic investigations.
11. Graduates are able and competent to recognize and diagnose dental and oral diseases to undertake dental treatment and advice on prevention.
12. Recognize physical and mental illness dealing with emergencies interaction with patients and various professional colleagues.
13. Each undergraduate student is made to do original research under the mentorship of respective teachers. Indigenous research lab is utilized as an infrastructure resource.

Mentors/ Course in-charge are assigned for every batch who take care of internal assessment, mental wellbeing of the student and shape the students to strengthen the graduate attributes.

### **8.1.11 Average per capita expenditure on Dental materials and other consumables used for student training during the last five years.**

<b>2018-19</b>	<b>2019-20</b>	2020-21	2021-22	2022-23
<b>32835</b>	<b>25680</b>	16357	23752	20223

### **8.1.12 Establishment of Dental Education Department by the College for the range and quality of Faculty Development Programmes in emerging trends in Dental Educational Technology organized by it.**

The DEU plays a vital role in the successful functioning of our institution. The committee is established to develop a single point contact between the institution, administration, teaching faculty, departments and the students. Its primary focus is the upliftment of the academic, practical, and clinical performance of the students of the institution. It helps the students by giving information in terms of academic related queries, guidance at times of difficulty, enabling smooth functioning of the departments.

#### **Objectives for creating dental education department:**

1. To enhance skills of faculty in synchronize with the contemporary times.
2. Promote evidence based learning.
3. Uplift the standards of clinical dentistry.