

THE OXFORD DENTAL COLLEGE

(Recognized by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka & Dental Council of India, New Delhi) Bommanahalli, Hosur Road, Bangalore – 560 068.

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Relevant documents pertaining to learning outcomes and graduate attributes

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Dean and Director

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Oral Medicine & Radiology

Goals of Dental Training in MDS Curriculum

Goals:

The goals of the post graduate training various specialties are to train the graduate in dental surgery who will,

- Practice respective specialty and effectively, backed by scientific knowledge and skill
- Exercise empathy and a caring attitude and maintain high ethical standards
- Continue to evince keen interest in professional education in the specialty and allied specialties whether in teaching or practice.
- Willing to share the knowledge and skills with any learner, junior or a colleague
- To develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach

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Objectives:

The objective of the post graduate trianing is to train a student so as to ensure higher competence in both general and special area of interest and prepare him or her for a carreer in teaching, research and speciality practice. A student must achieve a high degree of clinical proficiency in the subject and develop competence in research and its methodology in the concerend field.

The objective to be achieved by the candidate on complteion of the course may be classified as under:

- Kowledge (Cognitive domain)
- Skill (Psycho motor domain)
- Human values, ethical practice and communication abiliites

Knowledge:

- Demonstrate understanding of basic sciences relevant to specifity
- Describe etiology, pathophysiology, princiaples of diagnosis and management of common problems ithin the specallity in adults and children
- Identify social, economic, environmental and emotional determinates in a given case and take them in to account for planned treatement
- Recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned facility
- Update knoweldge by self study and by attending courses, conference and seminars pertaining to speciality
- Undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering

Skills:

- Take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relavant tests and interpret them to come to a reasonable diagnosis about the condition
- Acquire adequate skill and competence in performing varous procedures as required in the speciality

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Human Values, Ethical practice and Communication abilities

- Adopt ethical principles in all aspects of practice
- Foster professional Honesty and integrity
- Deliver patient care irrespective of social status, caste, creed or religion of the patient
- Develop communication skills to explain various options available and obtain a true informed consent from the patient
- Provide leadership and get the best out of his team in a congenial working atmosphere
- Apply high moral and ethical standards while carrying out human or animal research
- Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed

 Respect patients right and privileges including patients right to information and right to seek a second opinion

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Oral and Maxillofacial Surgery

Attributes as per RGUHS guidelines for BDS curriculum

a) Knowledge & Understanding:

At the end of the course and the clinical training the graduate is expected to

- Able to apply the knowledge gained in the related medical subjects like pathology, microbiology and general medicine in the management of patients with oral surgical problem.
- Able to diagnose, manage and treat (understand the principles of treatment of patients with oral surgical problems.
- Knowledge of range of surgical treatments.
- Ability to decide the requirement of a patient to have oral surgical specialist opinion or treatment.
- Understand the principles of in-patient management.
- Understanding of the management of major oral surgical procedures and principals involved in patient management.
- Should know ethical issues and communication ability.

b) Skills:

- A graduate should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner. Be able to understand requisition of various clinical and laboratory investigations and is capable of formulating differential diagnosis.
- Should be competent in the extraction of teeth under both local and general
 anesthesia.
- Should be able to carry out certain minor oral surgical procedures under L.A. like frenectomy, alveolar procedures & biopsy etc.
- Ability to assess, prevent and manage various complications during and after surgery.
- Able to provide primary care and manage medical emergencies in the dental office.
- Understanding of the management of major oral surgical problems and principals involved in inpatient management.

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Specific attributes:

- Able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems
- Able to diagnose, manage and treat patients with basic oral surgical problems
- Have a broad knowledge of maxillofacial surgery and oral implantology
- Should be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills
- Should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner
- Understand and practice the basic principles of asepsis and sterilization
- Should be competent in the extraction of the teeth under both local and general anesthesia
- Competent to carry out certain minor oral surgical procedure under LA like trans-alveolar extraction, frenectomy, Dento alveolar procedures, simple impaction, biopsy, etc.
- Competent to assess, prevent and manage common complications that arise during and after minor oral surgery
- Able to provide primary care and manage medical emergencies in the dental office

 Familiar with the management of major oral surgical problems and principals involved in the inpatient management

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Conservative Dentistry & Endodontics

In Conservative, Endodontics & Aesthetic Dentistry students should be competent on graduation to carry out routihe treatment like restorations of various kinds, endodontic procedures, in addition, students should be aware of their limitations on graduation, need to refer patients for consultant opinion and/or treatment and also the need for postgraduate and continuous education programmes.

In the recent times, the subjects of Esthetic dentistry, hence, the Council recommends that these specialities should be incorporated into the undergraduate curriculum. The instruction and clinical training in aesthetic dentistry shall be carried out by the departments of Conservative, Endodontics & Aesthetic Dentistry

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Periodontics

Attributes of post graduate student

The postgraduate course involves organised module based of teaching programmes. It is an integration of the basic sciences, clinical dentistry, research and practical skills specialization in periodontology

The post graduate students in the department of Periodontics during the three years of course undergo meticulous training in diagnosing and performing necessary treatment for various periodontal diseases.

1. I-MDS Students

- The first year post graduate students practice various treatment procedures on study models in the preclinical section.
- They learn interpreting the radiographs and evaluate the oral hygiene status, gingival and periodontal status at individual and community level.
- Training in phlebotomy (drawing blood) procedure.
- They perform non-surgical periodontal treatments like hand scaling and ultrasonic scaling followed by minor surgical procedures

2. II-MDS

- They perform ultrasonic scaling and minor surgeries
- Well trained in identifying ideal cases and performing treatments using LASERS
- They observe and assist the final year students in flap surgery procedures and perform simple flap surgeries.

3. III-MDS

- Training to perform complicated flap surgeries, regenerative approaches, and muco-gingival surgeries.
- Training in usage of advanced periodontal equipment like Peizo surgery unit,
 Magnifying loupes and Micro surgical instruments.
- Training in Implant case selection and procedures.
- Training in management of patients with special needs and geriatric patients.

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- 4. Human values, ethical practice & communication abilities
- 5. Adopt ethical principles in all aspects of treatment modalities, Professional honesty & integrity are to be fostered.
- 6. Develop Communication skills to make awareness regarding periodontal disease
- 7. Apply high moral and ethical standards while carrying out human or animal research, be humble, accept the limitations in his/her knowledge and skill, and ask for help from colleagues when needed,
- 8. Respect patients' rights and privileges, including patients right to information and right to seek a second opinion.
- 9. Interdisciplinary approach- the postgraduate student undergoes extensive training through various interdisciplinary courses and clinical exposure. The student also gets a platform to showcase such cases at the interdepartmental meets.
- 10. seminar and journal club presentation the student has to present seminars on various topics that trains the student in understanding of the subject as well as improves their presentation skill. The seminars are evaluated on basis of a checklist. The trainee shall make presentations from the allotted journals of selected articles All post-graduate programme is expected to participate active. A model check list for the evaluation of journal review presentation is also taken.
- 11. Training in speciality clinics

Post graduate student undergoes training in the following speciality clinics

- 12. implant clinic
- 13. special needs clinic
- 14. tobacco cessation counselling
- 15. geriatric clinic
- 16. laser clinic
- 17. Symposium, debates and case presentation

The student has to present and actively participate in symposium or debates on various controversial topics in periodontology. They are also expected to present various cases of academic and clinical interest

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18. Research and publication

Scientific advancement of any profession is based largely on continuous research activities the student is motivated to undertake various research-based activities apart from their dissertation work and also work towards publishing it.

19. Conferences and PG convention

The student is expected to attend these conferences at state and national level and present their works in form of paper or poster presentations.

20. The commitment towards the society as a whole,

needs to be stressed along with the knowledge and treatment skills gained. Instruction in public health dentistry should emphasise the sociological aspects of health care particularly, oral health care, including the reasons for the variation in oral and dental needs of different sections of the society. It is important to know the influence of the social, behavioural, environmental and economic factors on oral and dental health.

At the end of three years, the students will be competent in diagnosing periodontal diseases, proficient in performing the treatment procedures, management of postsurgical complications, taking up research projects and working towards the benefit of the community.

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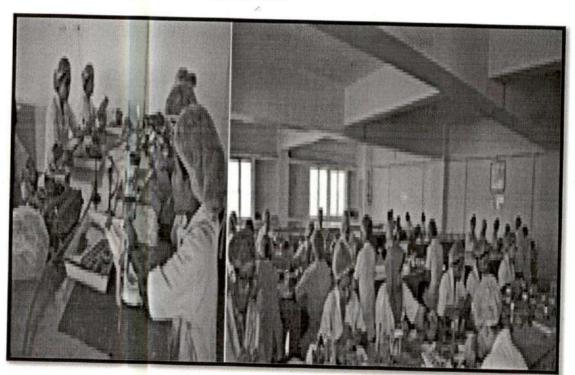
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Prosthodontics

UG Teaching-Learning and Evaluation Methods Adopted

Dental Materials and Preclinical Lab

A 1st year subject that introduces the students to the basic dental materials that are required throughout their practice of dentistry. Housed on the 5th floor of the institution, it is spread over an area of 2924 sq. Ft. Teaching is conducted through various one to one interaction where the students get, an opportunity to interact with the staff and get their doubts cleared.



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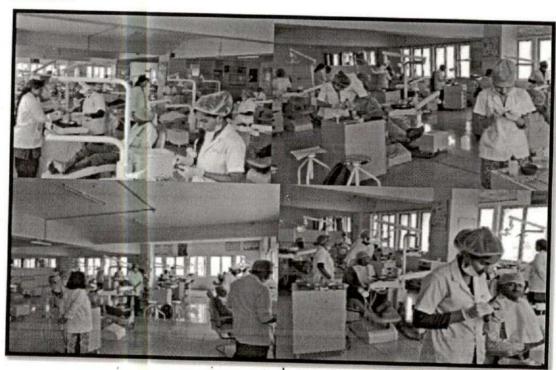
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UG Clinic

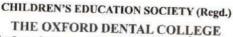
The undergraduate clinic is spread over a clinical area around 10000 sq. Ft housing 40 sophisticated and fully functional dental chairs, working trolleys. The section contains a large patient's waiting lounge with sufficient number of chairs. In addition, it consists of sterilization room which is equipped with both modern and conventional sterilization facility. Record room for maintenance of students and patients' records; and store room that has an array of the latest equipment's and materials.



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UG LAB

The laboratory has a sitting work capacity for 20 students. The Laboratory is well equipped with individual Bunsen burners and micro-motor connections. Good natural and artificial lighting arrangement is available for excellent visibility. Additional bench lathes, Model trimmers & vibrators have been installed.

Teaching

Undergraduate programme in Prosthodontics is designed to enable the qualifying dental surgeon to diagnose, analyse and treat common prosthodontic problems by preventive, interceptive and corrective procedures. This programme provides an indepth knowledge about the growth & development, diagnosis, treatment planning, material science, appliances and management of different types of prosthodontic rehabilitation. Prosthodontics as the course curriculum, (which follows strict DCI norms) in the Undergraduate program is designed to provide strong theoretical and clinical background in Prosthodontics, enabling the students to treat completely or partially edentulous patients. Students are taught systematic sequential procedures for fabrication of complete and removal dentures with emphasis on biomechanical compatibilities.

Foundation knowledge and techniques are taught by lectures, video and demonstrations that are correlated with the student's laboratory exercises.

Apart from the routine clinical, assignments are given to make charts and present seminars on the PowerPoint as part of academic curriculum.

Postgraduate Section

The section became functional in the year 2003 with the start of the postgraduate courses in the subject and admission of 5 students for MDS course. Currently the intake is 8 students.

The section holds a Resident's room, Seminar Hall with all modern audio-visual aids, Departmental library, Faculty chambers hooked up with online internet facility of the college, large patient's waiting lounge with sufficient number of chairs.

PG Clinic

Currently 26 electronically operated chairs are present in the department with an area around 7000.sqft. Various improvements like front loading autoclaves, motorized suctions have been introduced for the PG clinic. On an average about 80-100 patients attend the clinic daily for multifarious prosthodontic needs.

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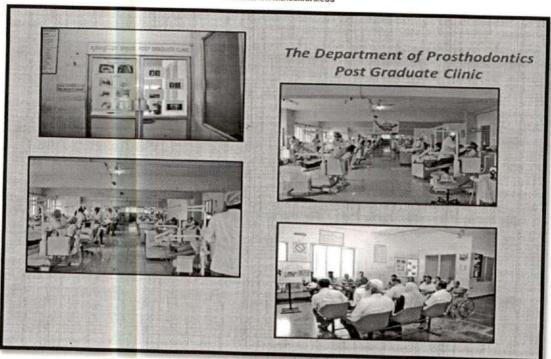
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PG Laboratory

Fully equipped and functional casting room consisting of model dryers, pre heat furnace, induction casting machine, high speed lathes, sand blaster, laser pin setter, lingual trimmers and duplicating equipment etc.



Fully equipped and functional ceramic lab (Dentsply Multinacci and Dentsply Programat) being operated by trained laboratory staff.

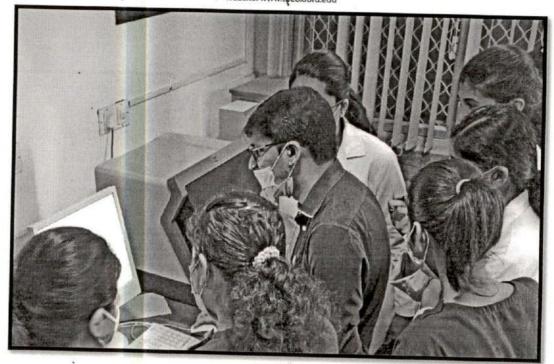
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Teaching programme for PG

A student, enrolling with the three years course of Master of Dental surgery in Prosthodontics, undergoes a rigorous training program. This program is to enable highly motivated individual students with proven scholarship, clinical and technical abilities to achieve excellence in the specialty of Prosthodontics.



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Orthodontics & Dentofacial Orthopaedics

Dental graduate attributes as described on the website of the College.

- 1. Fabrication of removable appliances
- 2. The lecture methods
- 3. Interactive teaching
- 4. Project based learning
- 5. Evidence based learning
- 6. Mentor system
- 7. Identification of slow and advanced learners
- 8. Intensive clinical training
- 9. Competitions like special wire bending and quiz programs
- 10. Research programs like poster presentations Pr
- 11. Awareness programs like dental camps, Orthodontist's week
- a) Fabrication of Removable appliances: Undergraduate students are trained to fabricate and deliver removable appliances such as Hawley's appliance, Habit breaking appliance.
- b) The Lecture methods: Theory classes will be conducted on a regular basis using LCD projectors. During pandemic times digital platforms (ZOOM, MS teams) are used for teaching and videos for students better understanding.
- c) Interactive Teaching: One to one interaction with every student will be held regularly to monitor their academic performances and to clarify their doubts.
- d) Project based learning: Practical approach is implemented in teaching students explaining the mechanism of how hydro soldering unit functions etc
- e) Evidence based learning: Students are taken to clinical set up and taught to diagnose the malocclusions under the assistance of their mentors.

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- Mentor system: For every 3 students 1 faculty as a mentor is allotted to help them academically, the mentors also guide their students in practical sessions like wire bending exercises, they monitor students during research program or competition.
- g) Identification of slow and advanced learners: In all batches advanced and slow learners are identified and different teaching approach is carried out to help slow learners understand the subject better through approaches like conducting daily tests, Textbook reading, and one to one discussion.
- h) Intensive clinical training: students will be encouraged to be a part of special case discussions to expand their horizon of learning.
- i) Competitions: In the department students are encouraged to take part in extracurricular activities like scientific quiz programs, Inter department presentations.
- j) Research programs: The students are given opportunities to expand their learning skills by encouraging them to participate in Conferences by helping them present posters and research papers of their interest.
- k) Awareness programs: The students are taken to Dental camps held by the college to create awareness among the public, Orthodontist's week is celebrated every year in the college with mad acts and skits.

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Demonstration of Performing Orthodontic Procedures



Demonstration of Hydro Soldering Unit Usage by Staff

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Orthodontic Wire Bending Competition Held by the Department



Celebration of Orthodontist's week

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Delivery of Removable Appliance by Undergraduate Students Under The Guidance of Staff



Poster Presentation by Undergraduate Students

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Textbook Reading Conducted for Slow Learners

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Pediatric and Preventive Dentistry

Attributes as per RGUHS guidelines for BDS curriculum

Knowledge and understanding

The graduate should acquire the following during the period of training.

- Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and should be able to evaluate and analyses scientifically various established facts and data.
- Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general-state of health and also the bearing on physical and social well-being of the patient.
- Adequate knowledge of clinical disciplines and methods, which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive, diagnostic and therapeutic aspects of dentistry.
- 4. Adequate clinical experience required for general dental practice.
- Adequate knowledge of biological function and behavior of persons in health and sickness as well as the influence of the natural and social environment on the state of health so far as it affects dentistry.

Skills

A graduate should be able to demonstrate the following skills necessary for practice of dentistry.

- Able to diagnose and manage various common dental problems encountered in general dental practice, keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
- Acquire skill to prevent and manage complications if encountered while carrying out various dental surgical and other procedures.
- Possess skill to carry out required investigative procedures and ability to interpret laboratory findings.
- 4. Promote oral health and help to prevent oral diseases wherever possible.

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Attitudes

A graduate should develop during the training period the following attitudes.

- Willing to apply current knowledge of dentistry in the best interest of the patients and the community.
- Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
- Willingness to participate in the continuing education programmes to update knowledge and professional skills from time to time.

5. To help and to participate in the implementation of national health programmes.

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(Recognized by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka & Dental Council of India, New Delhi) Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754680 Fax: 080 – 61754693E-mail:deandirectortodc@gmail.com Website: www.theoxford.edu

Oral Pathology and Microbiology

Knowledge and Understanding:

The graduate should acquire the following during the period of training.

- 1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyse scientifically various established facts anddata.
- 2. Adequate knowledge of the development, structure and function of the teeth, mouthand jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social wellbeing of thepatient.
- 3. Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.
- Adequate clinical experience required for general dental practice.
- 5. Adequate knowledge of the constitution, biological function and behaviour of personsin health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affects dentistry.

Skills: A graduate should be able to demonstrate the following skills necessary for practice of dentistry.

- 1. Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
- 2. Acquire the skill to prevent and manage complications if encountered while carryingout various surgical and other procedures.
- 3. Possess skill to carry out certain investigative procedures and ability to interpretlaboratory findings.
- 4. Promote oral health and help prevent oral diseases where possible.
- 5. Competent in the control of pain and anxiety among the patients during dentaltreatment.

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Attitudes: A graduate should develop during the training period the following attitudes.

- Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.
- 2. Maintain a high standard of professional ethics and conduct and apply these in allaspects of professional life.
- Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
- 4. Willingness to participate in the CPED Programmes to update the knowledge and professional skill from time to time.

5. To help and participate in the implementation of the national oral health policy.

Dean and Director

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Specific attributes:

- Student be able to identify hard and soft tissue oral pathological specimens, microscopic slides of various oral lesions and demonstration of cytosmears and bacteriological smears isdone.
- Student should be able to identify the age of patients based by patterns of teeth eruption of different age groups.
- The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
- The students must know the basic knowledge of various research methodologies.
- Student should be able to identify different types of pathological processes, that involve theoral cavity.
- The manifestations of common diseases, their diagnosis & correlation with clinicalpathological processes.
- An understanding of the oral manifestations of systemic diseases should help in correlating with the systemic physical signs & laboratory findings.
- The student should understand the underlying biological principles governing treatment oforal diseases.

 Student should have knowledge of the principles of certain basic aspects of ForensicOdontology.

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Public Health Dentistry

Attributes as per RGUHS guidelines for BDS curriculum

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- Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social wellbeing of the patient.
- Adequate knowledge of clinical disciplines and methods which provide a
 coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws
 and preventive diagnostic and therapeutic aspects of dentistry.
- 4. Adequate clinical experience required for general dental practice.
- 5. Adequate knowledge of the constitution, biological function and behavior of persons in health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affects dentistry.

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5. Competent in the control of pain and anxiety among the patients during dental treatment.

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- 2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- 3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
- 4. Willingness to participate in the CPED Programmes to update the knowledge and professional skill from time to time.
- 5. To help and participate in the implementation of the national oral health policy.

Specific Attributes:

- a) Apply the principles of health promotion and disease prevention
- b) Have knowledge of the organization and provision of health care in community and in the hospital service
- c) Have knowledge of the prevalence of common dental conditions in India.
- d) Have knowledge of community based preventive measures
- e) Have knowledge of the social, cultural and env. Factors which contribute to health or illness.
- f) Administer and hygiene instructions, topical fluoride therapy and fissure sealing.

g) Educate patients concerning the aetiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

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