



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

**THE OXFORD DENTAL COLLEGE**

(Recognized by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka & Recognised by 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

Relevant documents pertaining to course objectives & outcomes, learning outcomes and graduate attributes.

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**PRINCIPAL**  
The Oxford Dental College  
Bommanahalli, Hosur Road,  
Bangalore - 560 068.



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**DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY**

**Competencies for Undergraduate Students**

At the completion of the undergraduate training programme the graduates shall be competent in the following.-

**General Skills**

Apply knowledge & skills in day to day practice

Apply principles of ethics

Analyze the outcome of treatment

Evaluate the scientific literature and information to decide the treatment

Participate and involve in professional bodies

Self assessment & willingness to update the knowledge & skills from time to time

Involvement in simple research projects

Minimum computer proficiency to enhance knowledge and skills

Refer patients for consultation and specialized treatment

Basic study of forensic odontology and geriatric dental problems

Practice Management



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Evaluate practice location, population dynamics & reimbursement mechanism

Co-ordinate & supervise the activities of allied dental health personnel

Maintain all records

Implement & monitor infection control and environmental safety programs

Practice within the scope of one's competence

Communication & Community Resources

Assess patients goals, values and concerns to establish rapport and guide patient care

Able to communicate freely, orally and in writing with all concerned

Participate in improving the oral health of the individuals through community activities.

Patient Care – Diagnosis

Obtaining patient's history in a methodical way

Performing thorough clinical examination

Selection and interpretation of clinical, radiological and other diagnostic information

Obtaining appropriate consultation

Arriving at provisional, differential and final diagnosis

Patient Care – Treatment Planning

Integrate multiple disciplines into an individual comprehensive sequence treatment plan using diagnostic and prognostic information

Able to order appropriate investigations

Patient Care – Treatment

Recognition and initial management of medical emergencies that may occur during Dental treatment

Perform basic cardiac life support



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Management of pain including post operative

Administration of all forms of local anaesthesia

Administration of intra muscular and venous injections

Prescription of drugs, pre operative, prophylactic and therapeutic requirements

Uncomplicated extraction of teeth

Transalveolar extractions and removal of simple impacted teeth

Minor oral surgical procedures

Management of Oro-facial infections

Simple orthodontic appliance therapy

Taking, processing and interpretation of various types of intra oral radiographs

Various kinds of restorative procedures using different materials available

Simple endodontic procedures

Removable and fixed prosthodontics

Various kinds of periodontal therapy

**ORAL MEDICINE & RADIOLOGY**

Able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality for their management

Should have an adequate knowledge about common laboratory investigations and interpretation of their results.

Should have adequate knowledge about medical complications that can arise while treating



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systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.

Have adequate knowledge about radiation health hazards, radiations safety and protection.

Competent to take intra-oral radiographs and interpret the radiographic findings

Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.

Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.

Should be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

**CURRICULUM OF DENTAL INTERNSHIP PROGRAMME**

1. The duration of Internship shall be one year.
2. All parts of internship shall be done in a Dental College duly recognized/approved by the Dental Council of India for the purpose of imparting education and training to Dental graduates in the country.
3. The Internss shall be paid stipendiary allowance during the period of an Internship not extending beyond a period of one year.
4. The internship shall be compulsory and rotating as per the regulations prescribed for the purpose.
5. The degree- BDS shall be granted after completion of internship.



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**Determinants of Curriculum for internship for Dental Graduates:**

The curricular contents of internship training shall be based on.

- i) Dental health needs of the society.
- ii) Financial, material and manpower resources available for the purpose.
- iii) National Dental Health Policy.
- iv) Socio-economic conditions of the people in general.
- v) Existing Dental as also the primary health care concept, for the delivery of health services.
- vi) Task analysis of what graduates in Dentistry in various practice settings, private and government service actually perform.
- vii) Epidemiological studies conducted to find out prevalence of different dental health problems, taking into consideration the magnitude of dental problems, severity of dental problems and social disruption caused by these problems.

**Objectives:**

A. To facilitate reinforcement of learning and acquisition of additional knowledge:-

- a) Reinforcement of knowledge.
- b) Techniques & resources available to the individual and the community; Social and cultural setting.
- c) Training in a phased manner, from a shared to a full responsibility.

B. To facilitate the achievement of basic skills: attaining competence Vs. maintaining





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competence in:-

- i) History taking.
- ii) Clinical Examination.
- iii) Performance and interpretation of essential laboratory data.
- iv) Data analysis and inference.
- v) Communication skills aimed at imparting hope and optimism in the patient.
- vi) Attributes for developing working relationship in the Clinical setting and Community team work.

C To facilitate development of sound attitudes and habits:-

- i) Emphasis on individual and human beings, and not on disease/symptoms.
- ii) Provision of comprehensive care, rather than fragmentary treatment.
- iii) Continuing Dental Education and Learning of accepting the responsibility.

D To facilitate understanding of professional and ethical principles:-

- Right and dignity of patients.
- Consultation with other professionals and referral to seniors/institutions.
- Obligations to peers, colleagues, patients, families and Community.
- Provision of free professional services in an emergent situation.

To initiate individual and group action, leading to disease prevention and dental health promotion, at the level of individuals families and the community.

Content (subject matter)



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The compulsory rotating paid Dental Internship shall include training in Oral Medicine & Radiology; Oral & Maxillofacial Surgery; Prosthodontics; Periodontics; Conservative Dentistry;

Pedodontics; Oral Pathology & Microbiology; Orthodontics and Community Dentistry.

**General Guidelines:**

1. It shall be task-oriented training. The interns should participate in various institutional and field programmes and be given due responsibility to perform the activities in all departments of the Dental Colleges and associated Institutions.
2. To facilitate achievement of basic skills and attitudes the following facilities should be provided to all dental graduates:
  - i) History taking, examination, diagnosis, charting and recording treatment plan of cases.
  - ii) Presentation of cases in a group of Seminar.
  - iii) Care and sterilization of instruments used.
  - iv) Performance and interpretation of essential laboratory tests and other relevant investigations.
  - v) Data analysis and inference.
  - vi) Proper use of antibiotics, anti-inflammatory and other drugs, as well as other therapeutic modalities.
  - vii) Education of patients, their relatives and community on all aspects of dental





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health care while working in the institution as also in the field.

viii) Communication aimed at inspiring hope, confidence and optimism.

ix) Legal rights of patients and obligations of dental graduate under forensic jurisprudence.

### **Oral Medicine & Radiology:**

1. Standardized examination of patients 25 Cases
2. Exposure to clinical, pathological laboratory procedures and biopsies. 5 Cases
3. Effective training in taking of Radiographs: 2 Full mouth (Intra-oral) I.O. (Extra oral) E.O. 1 Cephalogram 1
4. Effective management of cases in wards 2 Cases



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<b>Sl. No.</b>	<b>Program</b>	<b>Name of the course</b>	<b>Course outcome</b>
<b>1.a</b>	<b>MDS- Oral Medicine and Radiology</b>	Applied Anatomy, Physiology, Pathology and Pharmacology	On completion of the course, <ol style="list-style-type: none"><li>1. the student would demonstrate sound theoretical knowledge and understanding of the applied anatomy of oral cavity and surrounding structures, the basics of physiology, pathology of various disease processes and various aspects of pharmacologic drugs as applicable to dentistry with drug interactions</li><li>2. the student would be proficient in clinical examination of the patient, identification of normal and abnormal functioning of the various systems of the oral and maxillofacial regions</li></ol>



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<p><b>1.b</b></p>	<p>Diagnosis,diagnostic methods and imageology and Applied OralPathology</p>	<p>Oncompletionofthecourse,</p> <ol style="list-style-type: none"> <li>1. The student would possess good understanding and knowledge of diagnostic tests and appropriate management,imaging modalities and interpretation of various radiographs and reporting</li> <li>2. the student would be trained in detailed clinical examination of the oral and maxillofacial structures,and correlate with identification of pathologies and techniques involved in conventional and advanced diagnostic radiographic examination.</li> <li>3. The student is trained in medical ethics and has to follow it during all clinical and radiologic procedures</li> </ol>
<p><b>1.c</b></p>	<p>OralMedicine,the rapeuticsandlaboratoryinvestigations.</p>	<p>Oncompletionofthecourse,</p> <ol style="list-style-type: none"> <li>1. The student would be well trained in recording complete history with etiology,pathogenesis, diagnosis and management of common oro facial disorders.</li> <li>2. the student would be able to formulate a differential diagnosis advise appropriate investigations and formulate a treatment plan.</li> <li>3. The student is trained to develop good communication skills and explain the disease process to the patient and obtain an informed Consent from the patient as well as the student will be trained to refer the patient to the appropriate speciality for specialized treatment</li> </ol>



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<b>1.d</b>		Essay	<p>Oncompletionofthecourse,</p> <ol style="list-style-type: none"> <li>1. The student would be proficient in All aspects of history taking, complete clinical examinations, necessary investigations like lab investigation and advising appropriate radiographs as necessary</li> <li>2. The student would be an expert at analysing ideas and rendering a suitable opinion of the problem presented in all aspects</li> </ol>
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**Courseoutcomes-BDS**

Sl. No.	Nameof theprogram	Nameofthecourse	Courseoutcome
<b>1.a</b>	BDS – 4 <sup>th</sup> Year	OralMedicineand Radiology	<ol style="list-style-type: none"> <li>1. Generate graduates that demonstrate the knowledge, skills and aptitude in Oral &amp; Maxillofacial Diagnosis, Diagnostic procedures and medical management of oral manifestation of systemic disease</li> <li>2. Create confident and competent Dental professionals who can accomplish and execute clinical acumen in the diagnosis And management of oral and maxillofacial problems</li> </ol>



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## **DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY**

### **Summary: -**

- 1) The Education program in the Department of Oral and Maxillofacial surgery at The Oxford Dental College and Research Centre focuses on providing the students with holistic knowledge and necessary skills required for everyday practice. The students are educated to provide ethical, patient-centered, evidence-based surgical treatment. In addition, our aim is to graduate students as pioneers who possess advanced technical skills with a comprehensive scientific foundation, thirst for knowledge, and the capacity to become better surgeons in the field of oral surgery education and research. The three year post graduate program not only focuses on sound theoretical basis, but also a development of critical analysis of problems and a spirited approach towards solving the same.
- 2) The program places equal emphasis on clinical ability, research skills, and leadership capabilities. We do this through our commitment to the transformative power of providing best education available. This begins in our classrooms with exposure to new ideas, new ways of learning and with the help of technology we create a diverse learning environment, where students are encouraged towards intellectual transformation. We also aim to maintain highest standards of excellence and professionalism in all aspects of patient centered practice with research being an integral part of our department.
- 3) We religiously follow the curriculum provided by Rajiv Gandhi University of Health





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Sciences (RGUHS), with the best interest of our BDS students we conduct weekly tests, group discussions, textbook reading, assignments, have one to one interaction to clear their doubts and each student is assigned a mentor to help them academically. Whereas our Post Graduate students are encouraged to take part in scientific research and competitive sectors to expand their knowledge, with dissertation and Journal clubs with articles we also do short studies and publications pertaining to the New techniques in Oral Surgery.

**Program Objectives – Program  
Wise**

1. **Suturing Techniques on model pillows:** Undergraduate students are trained to suture on suturing pillows. With different techniques in it.
2. **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.
3. **Interactive Teaching:** One to one interaction with every student will be held regularly to monitor their academic performances and to clarify their doubts.
4. **Project based learning:** Practical approach is implemented in teaching students explaining them to administer Local anesthesia and exodontias on role play.
5. **Evidence based learning:** Students are taken to clinical set up and taught to diagnose and treat the respective decayed tooth.
6. **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 Intermaxillary wire bending exercises; they monitor students during research program or competition.



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7. **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.
8. **Intensive clinical training:** students will be encouraged to be a part of special case discussions to expand their horizon of learning.
9. **Competitions:** In the department students are encouraged to take part in extracurricular activities like scientific quiz programs, Inter department presentations.
10. **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.

**Awareness programs:** The students are taken to Dental camps held by the college to create awareness among the public, Oral and Maxillofacial Surgery day is celebrated every year in the college.



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#### Course Objectives and outcomes

	Program	Name of the course	Course outcome
1.a	MDS-Oral and Maxillofacial Surgery	General anatomy, physiology, biochemistry, general pathology, microbiology,	On completion of the course,  1. Dissection, basic sciences, basic computer sciences, exodontias, seminars on basic selection of dissertation topic, library assignment topic, attending O.T and ward preparation of synopses and its submission within the six months after admission to the university as per calendar of events
1.b		Diagnostic procedures and Treatment planning, practice management in the field of Oral surgery.	On completion of the course,  1. The student should possess an understanding and knowledge of diagnosis and diagnostic procedures, recent advancements pertaining to diagnosis. 2. Students should be able to manage a patient on their own in a clinical setup. 3. Apply high moral and ethical standards while carrying out any clinical procedures.



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1.c		Minor surgical procedures, Major OT's and Exodontias	On completion of the course,  1. The student should be aware of how to achieve a good surgical treatment. 2. Minor oral surgery and higher surgical training. 3. General surgical skills and operative procedure
1.d		Publications	On completion of the course,  1. Students should have a minimum of 2 publications of Their own.



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## **Geotagged Photograph for Display of Program Wise - Program Objectives & Course Objectives in all Departments**



**Placement of Implant in Dept of Oral and Maxillofacial surgery**



**Self directed leaning by Under graduate students**





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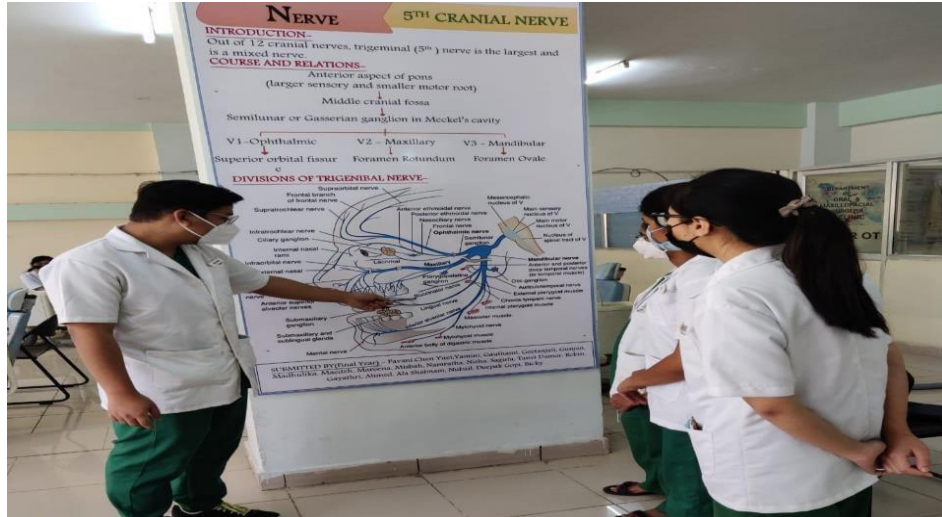
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**Chart learning by Under graduate students**



**Interactive session on Clinical topics**





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**Presentation for the Undergraduate students**



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**Textbook reading conducted for slow learners**



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**Celebration of Oral and Maxillofacial Surgery Day**





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## **DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE**

**Summary on The Institution has stated the learning outcomes (generic and programme-specific) and graduate attributes as per the provisions of the Regulatory bodies and the University; which are communicated to the students and teachers through the website and other documents.**

Summary: -

TODC is affiliated to RGUHS and governed by rules and regulations of Dental Council of India. Learning outcomes and graduate attributes are stated by regulatory bodies. Keeping in view graduate attributes and learning outcomes stated by regulatory bodies, course coordinator defines course outcomes after discussing with expert faculties and approval of HoDs.

Consequently, graduate attributes and course outcomes for all programs offered by the institution are stated and displayed on the college website for communicating with teachers, students and other stakeholders.

The institution does have clearly stated specific learning outcomes for all of its academic programmes. In essence they identify what the learner should know and be able to do by the end of a course or program. Well-defined and articulated learning objectives are important as they provide students with a clear purpose to focus on their learning efforts, directs faculties for choice of instructional activities and assessment strategies.

Dental education unit focuses on outcomes, competencies and learner centered education. It entails the ongoing assessment to help the teachers find the stage of competency of the learner, need for further interventions and better learning.



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## **Program Objectives – Program Wise**

### **UG Teaching-Learning and Evaluation Methods Adopted**

#### **Dental Materials and Preclinical Lab**

A 1 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.

#### **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.

#### **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 in-depth 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



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treat completely or partially edentulous patients. Students are taught systematic sequential procedures for fabrication of complete and removal dentures with emphasis on biomechanical compatibilities.

### 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 MOS 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 on line 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 100 patients attend the clinic daily for multifarious prosthodontic needs.

### 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.





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### Course Objectives and outcomes

Sl No	Name of the programme	Name of the course	Course outcome
3.a	MDS in Prosthodontics and Crown & Bridge	Applied anatomy, Physiology, Pathology and Dental materials	<p>The objective of the postgraduate course</p> <ul style="list-style-type: none"> <li>• To acquire basic knowledge of anatomy, physiology, pathology and pharmacology.</li> <li>• To develop ethical principles, professional honesty and integrity In all prosthodontics practice</li> <li>• It is desirable to have adequate knowledge in biostatistics and research methodology.</li> </ul>
3.b		Removable prosthodontics and oral implantology	<p>To achieve knowledge and skills in all the Prosthodontics fields of prosthodontics including crown and oral and bridge and implantology.</p> <ul style="list-style-type: none"> <li>• With the above knowledge the student gains expertise in diagnosing and treatment planning of various diseases leading to edentulism</li> <li>• Communicative skills in understanding the requirements of the society to explain treatment options available and their management.</li> <li>• The students are trained in all aspects of material science, technique and recent</li> </ul>



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			advancement in maxillofacial rehabilitation as well as treatment options for removable prosthesis.
3.c		Fixed Prosthodontics	<p>The students are trained in diagnosis and treatment of fixed prosthesis, with training in tek-scan the students are thus specialized with the use of high- end instruments and its role in diagnosis as well as full mouth rehabilitation. With the state of- the-art prosthetic-laboratory students are trained to design and fabricate the prosthesis.</p> <ul style="list-style-type: none"> <li>• All the post graduate students are exclusively trained in diagnosis and treatment options in implantology. Training with different implant systems, surgical procedures and prosthetic options are the main objective in our post graduate course With first hand</li> </ul>



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Geotag photograph for display of program wise – program objective and course in department



Delivery of removable appliance by under graduate student under guidance of staff



Demonstration of prosthetic procedure



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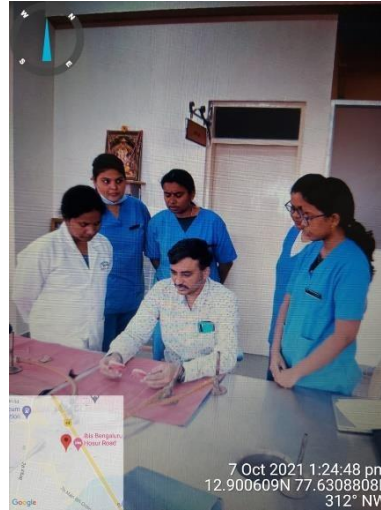
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Demonstration of prosthetic phase of implant



Poster presentation by undergraduate students



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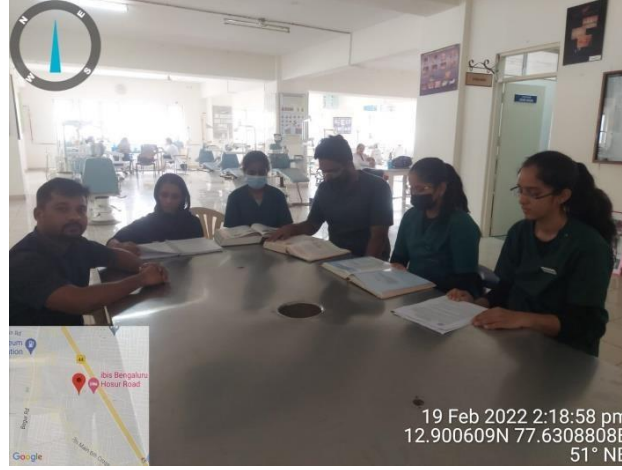
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**Textbook learning for slow learners**





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## **DEPARTMENT ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

**Summary on The Institution has stated the learning outcomes (generic and programme-specific) and graduate attributes as per the provisions of the Regulatory bodies and the University; which are communicated to the students and teachers through the website and other documents.**

### **Summary: -**

- 1) The Education program in the Department of Orthodontics at The Oxford Dental College and Research Centre focuses on providing the students with holistic knowledge and necessary skills required for everyday practice. The students are educated to provide ethical, patient-centred, evidence-based Orthodontic treatment. In addition, our aim is to graduate students as pioneers who possess advanced technical skills with a comprehensive scientific foundation, thirst for knowledge, and the capacity to become better clinicians in the field of orthodontics education and research. The three year post graduate programme not only focuses on sound theoretical basis, but also a development of critical analysis of problems and a spirited approach towards solving the same.
- 2) The program places equal emphasis on clinical ability, research skills, and leadership capabilities. We do this through our commitment to the transformative power of providing best education available. This begins in our classrooms with exposure to new ideas, new ways of learning and with the help of technology we create a diverse learning environment, where students are encouraged towards intellectual transformation. We



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also aim to maintain highest standards of excellence and professionalism in all aspects of patient centered practice with research being an integral part of our department.

- 3) We religiously follow the curriculum provided by Rajiv Gandhi University of Health Sciences (RGUHS), with the best interest of our BDS students we conduct weekly tests, group discussions, textbook reading, assignments, have one to one interaction to clear their doubts and each student is assigned a mentor to help them academically. Whereas our Post Graduate students are encouraged to take part in scientific research and competitive sectors to expand their knowledge, with dissertation we also do short studies and publications pertaining to the new age Orthodontics.

**Program Objectives – Program Wise**

1. **Fabrication of Removable appliances:** Undergraduate students are trained to fabricate and deliver removable appliances such as Hawley's appliance, Habit breaking appliance.
2. **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.
3. **Interactive Teaching:** One to one interaction with every student will be held regularly to monitor their academic performances and to clarify their doubts.



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4. **Project based learning:** Practical approach is implemented in teaching students explaining the mechanism of how hydro soldering unit functions etc
5. **Evidence based learning:** Students are taken to clinical set up and taught to diagnose the malocclusions under the assistance of their mentors.
6. **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.
7. **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.
8. **Intensive clinical training:** students will be encouraged to be a part of special case discussions to expand their horizon of learning.
9. **Competitions:** In the department students are encouraged to take part in extracurricular activities like scientific quiz programs, Inter department presentations.
10. **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.
11. **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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## Course Objectives and outcomes

	<b>Program</b>	<b>Name of the course</b>	<b>Course outcome</b>
1.a	MDS-Orthodontics	Applied anatomy, physiology, pathology, etiology	On completion of the course, 1. The student should have thorough knowledge about the subject and an understanding of basic relevant sciences mainly the aetiology and pathology of the malocclusion, type of malocclusion. 2. The student should be proficient in the physical examination of the patient, should be able to differentiate malocclusion from normal occlusion.
1.b		Diagnostic procedures and treatment planning, practice management in orthodontics.	On completion of the course, 1. The student should possess an understanding and knowledge of diagnosis and diagnostic procedures, recent advancements pertaining to diagnosis. 2. Students should be able to manage a patient on their own in a clinical setup. 3. Apply high moral and ethical standards while carrying out any clinical procedures.



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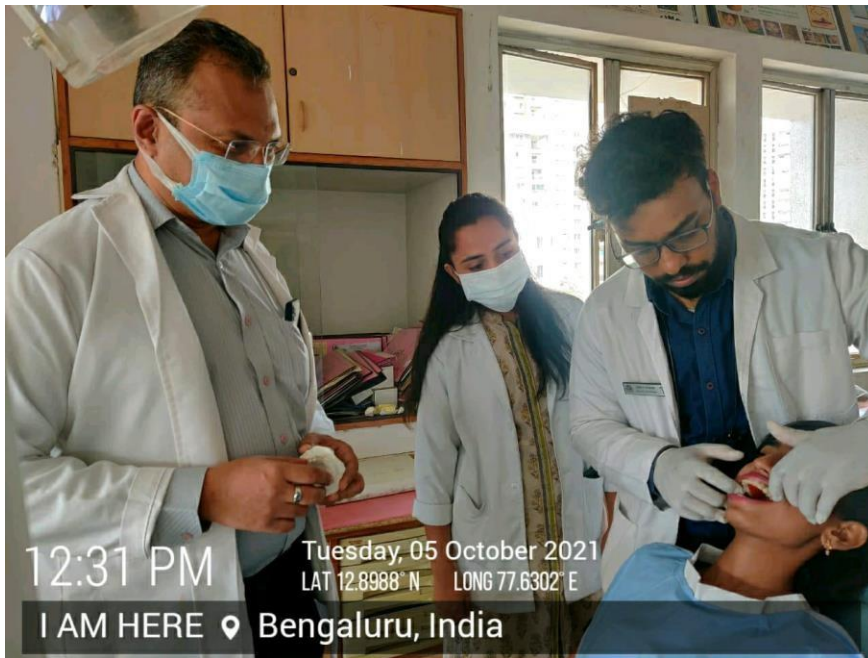
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1.c		Myofunctional and orthopedic appliances	On completion of the course, 1. The student should be aware of how to achieve a good orthodontic treatment result in two-phase therapy.
1.d		Publications	On completion of the course, 1. Students should have a minimum of 2 publications of their own.

**Geotagged Photograph for Display of Program Wise - Program Objectives & Course Objectives in all Departments**







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## **Delivery of removable appliance by Undergraduate students under the guidance of staff**



## **Demonstration of performing orthodontic procedures**



## **Demonstration of hydro soldering unit usage by staff**



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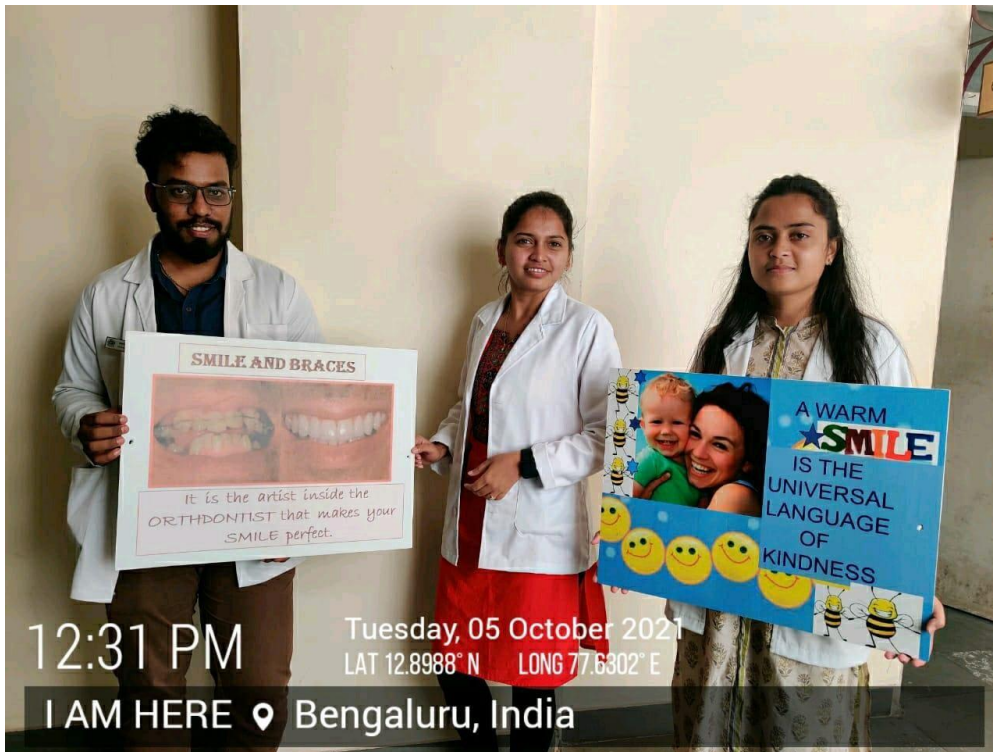
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**Orthodontic Wire bending competition held by the department**



**Poster presentation by Undergraduate students**



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**Textbook reading conducted for slow learners**



**Celebration of Orthodontist's week**





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## **DEPARTMENT OF PAEDIATRIC AND PREVENTIVE DENTISTRY**

**Summary: -**

### **KNOWLEDGE AND UNDERSTANDING:**

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

- Adequate knowledge of the scientific foundations on which the 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 general effect on the state of health and also the bearings on physical and social wellbeing of the patient.
- Adequate knowledge on clinical discipline methods, which provide a coherent picture of anomalies, lesions and the diseases of the teeth, mouth and jaws and preventive, diagnostic and therapeutic aspects of dentistry.
- Adequate clinical experience required for general dental practice.
- Adequate knowledge of biological function and behaviour 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 effects dentistry.



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**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 practice, keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
- Acquire skills 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.
- Promote oral health and help to prevent oral diseases wherever possible.

**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 the 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.





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

**Program Objectives – Program Wise**

- 12.Preclinical work:** 3<sup>rd</sup> year undergraduate students are trained to prepare cavity preparation on models and fabrication of habit breaking appliances. 4<sup>th</sup> year BDS students are trained to perform proper cavity preparations, oral prophylaxis, fluoride applications on the paediatric patients.
- 13.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.
- 14.Interactive Teaching:** One to one interaction with every student will be held regularly to monitor their academic performances and to clarify their doubts.
- 15.Project based learning:** Practical approach is implemented in teaching students explaining the mechanism of how apex locator, endo motors, conscious sedation units etc works.
- 16.Evidence based learning:** Students are taken to clinical set up and taught to diagnose and treat special health care children and problem based solving with the assistance of their mentors.
- 17.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 cavity preparations, they monitor students during research program or competition.
- 18.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



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learners understand the subject better through approaches like conducting daily tests, Textbook reading, and one to one discussion.

**19.Intensive clinical training:** students will be encouraged to be a part of special case discussions to expand their horizon of learning.

**20.Competitions:** In the department students are encouraged to take part in extracurricular activities like scientific quiz programs, Inter department presentations.

**21.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.

**22.Awareness programs:** The students are taken to Dental camps held by the department to create awareness among the school children and the parents on behalf of School Oral Health Programmes.

### Course Objectives and outcomes

	<b>Program</b>	<b>Name of the course</b>	<b>Course outcome</b>
1.a	MDS-Paediatric & Preventive Dentistry	Pre-clinical Library orientation. Research methodology Photography	<b>KNOWLEDGE</b> <ul style="list-style-type: none"><li>Students should understand fundamentals of tooth morphology &amp; histology, dental materials, basic orthodontic appliances, cavity preparation.</li></ul>



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			<ul style="list-style-type: none"> <li>• Students should be able to utilize library and E-Learning resources.</li> <li>• Students should understand research methodologies.</li> </ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>• Students should complete Pre-clinical work as applicable.</li> <li>• Students should be able to take good intra oral photographs.</li> <li>• Students should submit synopsis within 6 months to university and completes library dissertation.</li> <li>• Students should be certified in Basic Life Support.</li> <li>• Students should carry out research work and submit a dissertation</li> </ul>
1.b	MDS- Paediatric & Preventive Dentistry	Applied Basic Sciences including Biostatistics.	<p><b>KNOWLEDGE</b></p> <ul style="list-style-type: none"> <li>• Students should know and understand applied anatomy, physiology, biochemistry, pathology, oral microbiology, dental pharmacology, nutrition, genetics, craniofacial embryology, growth and development.</li> </ul>



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			<ul style="list-style-type: none"><li>• Students should understand the biology of tooth movement, TMJ and normal development of occlusion from birth to adolescence.</li><li>• Students should understand theories and development of child psychology, and importance of Behaviour Management of children and adolescents.</li><li>• Students should know the pharmacological methods for behaviour management.</li><li>• Students should know oral manifestations of systemic conditions and congenital anomalies.</li></ul> <p><b>SKILLS</b></p> <p>Student should be able:</p> <ul style="list-style-type: none"><li>• To record and document a detailed case with complete records, investigations, treatment planning and presentation of cases with chair side discussion.</li><li>• To recognize deviations from normal growth and development and behaviour.</li><li>• To prescribe medication for children and adolescents.</li><li>• To carry out investigations including radiographs,</li></ul>
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			<p>study models and cephalometric analysis.</p> <ul style="list-style-type: none"> <li>• To make appropriate referrals to allied health and other dental specialities.</li> <li>• To participate in interdisciplinary treatment plan.</li> <li>• Students should respect child patient's rights and privileges, including child patient's right to information and right to seek a second opinion.</li> <li>• Students should take prior informed written consent from parents / guardians.</li> </ul>
1.c		Clinical Paediatric dentistry	<p><b>KNOWLEDGE</b></p> <ul style="list-style-type: none"> <li>• Students should know the principles of Operative Dentistry along with past, current and recent advances in techniques and aesthetic restorative materials.</li> <li>• Student understands Minimal intervention, modifications required for cavity preparation in primary and young</li> </ul>





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			<p>permanent teeth and various isolation techniques.</p> <ul style="list-style-type: none"><li>• Students understands sequel of trauma and the management of traumatized teeth with latest concepts.</li><li>• Students should know prosthetic consideration for children and adolescents.</li><li>• Student must be able to instil a positive attitude and behaviour in children and apply behaviour management techniques for different age groups of children.</li><li>• Student should be able to recognize signs of child abuse and neglect and document cases.</li></ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"><li>• To restore carious primary, young permanent and permanent teeth using various aesthetic restorative materials (GIC, Composites) and stainless steel, Polycarbonate, Zirconia, Resin crowns/</li></ul>
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			<p>Veeners, other crowns and fibre post systems.</p> <ul style="list-style-type: none"><li>• To carry out pulp therapy procedures in primary teeth and root canal treatment in permanent incisors and molars.</li><li>• To manage young immature permanent teeth (Apexogenesis, apexification, Regenerative endodontics)</li><li>• To manage patients with traumatized anterior teeth, including splinting.</li><li>• To implement interceptive orthodontic procedures, myofunctional therapy and interception of habits.</li><li>• To provide oral rehabilitation for children with special health care needs.</li><li>• To carry out minor oral surgical procedures under local anesthesia.</li><li>• Students should be able to render comprehensive dental treatment under</li></ul>
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			general anaesthesia if indicated.
1.d		Preventive Dentistry	<p><b>KNOWLEDGE</b></p> <ul style="list-style-type: none"> <li>• Student understands concepts and Levels of prevention, and the need for tailor-made preventive protocols.</li> <li>• Student is able to understand the role of diet, plaque and oral microflora in etiology of dental caries and the influence of civilization and environment.</li> <li>• Student understands the mechanism of action of various agents used in the prevention of oral disease, including fluorides and caries vaccine.</li> <li>• Students should be able to understand the need for oral health surveys and the prevalence of dental disease in children and adolescents.</li> <li>• Students should know the national and global trends of epidemiology of oral diseases.</li> <li>• Students is able to recognize early developing</li> </ul>



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			<p>malocclusions and the rationale for preventive and interceptive orthodontic procedures.</p> <ul style="list-style-type: none"><li>• Student must be able to understand the need for prevention of dental trauma in children and adolescents.</li></ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"><li>• Student is able to carry out chair side caries risk assessment, for early diagnosis, and recognize clinical features of oral diseases.</li><li>• Students can carry out various preventive measures for dental diseases including pit &amp; fissure sealants, topical fluorides and other remineralizing agents, oral prophylaxis measures, give instructions in tooth brushing.</li><li>• Should be able to record diet and do diet analysis as related to dental caries, followed by diet counselling.</li><li>• To record, document &amp; evaluate oral hygiene, dental caries and gingival diseases.</li></ul>
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			<ul style="list-style-type: none"> <li>• To deliver appliances in the prevention of oral deleterious habits and for space management in children.</li> <li>• To impart Dental Health Education and plan for School Dental Health Programmes for delivery of oral health and prevention of dental trauma.</li> <li>• Students participate actively in dental camps.</li> <li>• Students should be able to counsel parents &amp; teachers in their role in maintaining good oral health of infants, children and adolescents.</li> <li>• Should be able to recognize, document and a appropriate referral for child abuse and neglect.</li> </ul>
1.e		Essay	<p><b>KNOWLEDGE</b></p> <ul style="list-style-type: none"> <li>• Should understand comprehensively the role of a paediatric dentist in the community.</li> <li>• Students should know about the anticipatory guidance, infant oral health care, comprehensive cleft care and dental home concept.</li> </ul>





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			<ul style="list-style-type: none"> <li>• Students should be able to critically analyse and evaluate prevention and therapeutic modalities in paediatric dentistry.</li> </ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>• Students should be able to effectively manage child patient in the dental clinic and provide a preventive, therapeutic and comprehensive dental care to all children and adolescents including those with special health care needs.</li> <li>• Students should be confident to set up an exclusive paediatric dental practice.</li> <li>• Students should be able to answer viva voce with confidence.</li> <li>• Students should be able to deliver pedagogy, and able to make an oral presentation.</li> </ul>
2.a	BDS 3 <sup>RD</sup> AND 4 <sup>TH</sup> YEAR	Paediatric & Preventive Dentistry	<p><b>KNOWLEDGE</b></p> <ul style="list-style-type: none"> <li>• Students should understand the scope, objectives and</li> </ul>



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			<p>importance of paediatric dentistry.</p> <ul style="list-style-type: none"> <li>• Students should understand the oral diseases in children including early childhood caries, gingival diseases, oral habits, space considerations, preventive &amp; restorative procedures, children with special health care needs and the dental trauma.</li> <li>• Should understand importance of school dental health education.</li> </ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>• Should be able to record case history, diagnose and plan a treatment.</li> <li>• Should be able to carry out oral prophylaxis, restorations on primary teeth, apply fluoride and simple extractions.</li> <li>• Should educate and motivate patients.</li> </ul>
3.a	INTERNS	Paediatric & Preventive Dentistry	<ul style="list-style-type: none"> <li>• Should be able to present posters/ projects, seminars and participate in quiz, table clinics , debates.</li> </ul>



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## **Geotagged Photograph for Display of Program Wise - Program Objectives & Course Objectives in all Departments**



**Case based learning by undergraduate students by the guidance of staff**

**Demonstration of usage of endo-motor usage by staff**



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**Problem based learning by the postgraduate students**



**Demonstration of conscious sedation on patient models by staff**





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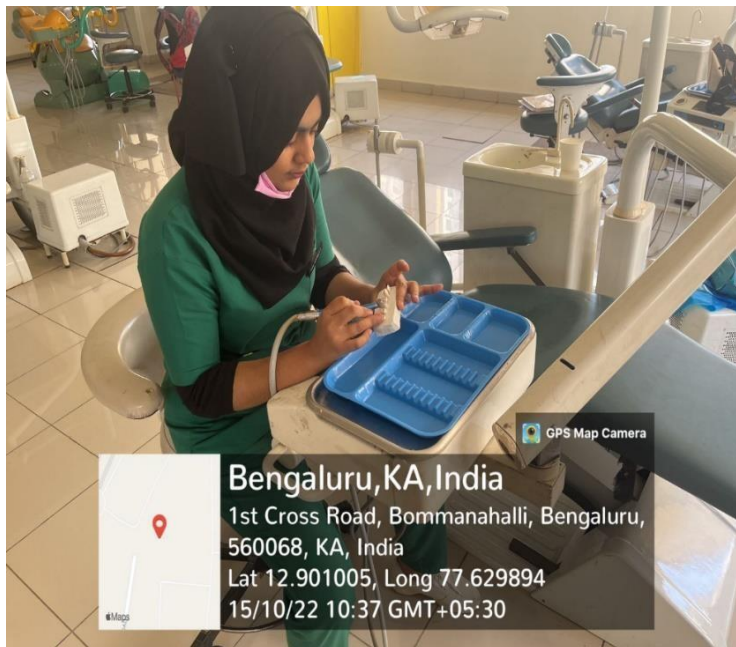
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**Undergraduate student working on Preclinical model**



**Health education talk and demonstration by post graduate students to school children**





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**Case presentation & discussion by post graduate students with staff**



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## **ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY**

### **Summary: -**

- 1) The Education program in the Department of Oral and Maxillofacial pathology and Microbiology at The Oxford Dental College and Research Centre focuses on providing the students with holistic knowledge and necessary skills required for everyday practice. The students are educated to provide ethical, patient-centered, evidence-based treatment. In addition, our aim is to graduate students as pioneers who possess advanced technical skills with a comprehensive scientific foundation and the capacity to become better clinicians.
- 2) We religiously follow the curriculum provided by Rajiv Gandhi University of Health Sciences (RGUHS), with the best interest of our BDS students we conduct weekly tests, group discussions, textbook reading, assignments, have one to one interaction to clear their doubts and each student is assigned a mentor to help them academically. Whereas our Post Graduate students are encouraged to take part in scientific research and competitive sectors to expand their knowledge.

### **(A) 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



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functions and be able to evaluate and analyse scientifically various established facts and data.

2. 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 well being of the patient.

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.

4. Adequate clinical experience required for general dental practice.

5. Adequate knowledge of the constitution, biological function and behaviour 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.

(B) **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 carrying out various surgical and other procedures.

3. Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.



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4. Promote oral health and help prevent oral diseases where possible.
5. Competent in the control of pain and anxiety among the patients during dental treatment.

(B) ATTITUDES: A graduate should develop during the training period the following attitudes.

1. 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 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.

(C) SPECIFIC ATTRIBUTES:

1. 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 is done.
2. Student should be able to identify the age of patients based by patterns of teeth eruption of different age groups.



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3. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
4. The students must know the basic knowledge of various research methodologies.
5. Student should be able to identify different types of pathological processes, that involve the oral cavity.
6. The manifestations of common diseases, their diagnosis & correlation with clinical pathological processes.
7. An understanding of the oral manifestations of systemic diseases should help in correlating with the systemic physical signs & laboratory findings.
8. The student should understand the underlying biological principles governing treatment of oral diseases.
9. Student should have knowledge of the principles of certain basic aspects of Forensic Odontology.





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<b>9.b</b>		Oral Pathology, Microbiology, Immunology And Forensic Odontology	<ol style="list-style-type: none"><li>1. The student should have to understand the pathological processes of oral diseases.</li><li>2. The student would have to understand the pathological processes of oral diseases compare and diagnose based on clinical, radiographical and histopathological findings which involves the oral and paraoral structures.</li><li>3. They would have learnt and perform the preparation of ground sections oral smears and histology slides.</li><li>4. Student would have studied and be able to identify and diagnose the disease based on microscopy rationale.</li><li>5. Students are trained in recording of Case History and Clinico-Pathological interdepartmental discussions.</li><li>6. Students gain basic knowledge on Forensic odontology and its clinical applications in dentistry</li></ol>
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9.c		Laboratory Techniques , Diagnosis AndOncology	<ol style="list-style-type: none"> <li>1. The students should have basic knowledge of biopsy procedure andslide preparation.</li> <li>2. They would have the basic knowledgion laboratory chemicals and equipments.</li> <li>3. Student should have learnt to identifyand appreciate the microscopic slide and writing a report on oral diseases/lesion.</li> <li>4. Students are imparted knowledge and training in recent molecular techniques.</li> <li>5. Student should have knowledge on Basic hematological tests, urine analysis and its clinical significance.</li> <li>6. Student is imparted knowledge, rationale and practical skills behind doing special stains and Immunohistochemistry for diagnostically challenging cases.</li> </ol>
9.d		Essay	<ol style="list-style-type: none"> <li>1. Student should have comprehensiveknowledge on oral and paraoral structures and related pathologies and also on recent advanced methodology / techniques and molecular aspect.</li> <li>2. Student should have critical evaluation skills to differentiate various pathologies using clinical, histopathological and molecular information put together.</li> </ol>



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1.4	BDS - 1 <sup>st</sup> Year	Dental Anatomy, Embryology And Oral Histology	<ol style="list-style-type: none"> <li>1. Dental graduate with basic knowledge on Morphology of both deciduous and permanent teeth, Methods of identifying the teeth and age of the plaster cast</li> <li>2. Dental graduate with basic skills in Wax carving of teeth, Identifying the basic histology slides by microscopy</li> <li>3. Dental graduate with potential to efficiently communicate physiological development, morphology, structure &amp; functions of teeth and oral &amp; paraoral tissues &amp; its variations.</li> </ol>
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3.2	BDS – 3 <sup>rd</sup> Year	Oral Pathology	<ol style="list-style-type: none"> <li>1. Dental graduate with basic knowledge on pathogenesis of Oral disease, diagnosis and comparison based on clinical, radiograph and histopathologic features of oral disease</li> <li>2. Dental graduate with basic skills in preparation of ground sections and oral smears, age estimation based on teeth, identifying and diagnosing the pathology based on light microscopy</li> <li>3. Dental graduate with potential to efficiently communicate diagnosis &amp; correlate with other oral disease with their pathological processes.</li> </ol>
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STAFF TAKING BLACKBOARD LECTURE



Students viewing Histology slides



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Students involving in lab techniques



Table discussion for students





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Interesting case discussion



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## **DEPARTMENT OF PERIODONTOLOGY**

### **Summary: -**

- 1) The Education program in the Department of Periodontology at The Oxford Dental College and Research Centre focuses on providing the students with comprehensive knowledge and necessary skills required for everyday practice. The students are educated to provide ethical, patient-centred, evidence-based Periodontic treatment. In addition, our aim is to graduate students as pioneers who possess advanced technical skills with a comprehensive scientific foundation, thirst for knowledge, and the capacity to become better clinicians in the field of orthodontics education and research. The three year post graduate programme not only focuses on sound theoretical basis, but also a development of critical analysis of problems and a spirited approach towards solving the same.
- 2) The program focuses equally on clinical ability, research skills, and leadership capabilities. To accomplish this through our commitment to the transformative power of providing best education available. We also strive consistently to achieve and maintain highest standards of dental excellence and professionalism in all aspects of our department.

We adhere to the curriculum provided by Rajiv Gandhi University of Health Sciences (RGUHS), with the best interest of our BDS students we conduct weekly tests, group discussions, textbook reading, assignments, have one to one interaction to clear their doubts



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and each student is assigned a mentor to help them academically. Whereas our Post Graduate students are encouraged to take part in scientific research and competitive sectors to expand their knowledge

### **Program Objectives – Program Wise**

#### ***List Of Non-Surgical/Surgical Procedures.***

- *Scaling And Root Planing*
- *Abscess Drainage*
- *Local Drug Delivery*
- *Localized Flap Surgeries Flap Procedures*
  - *Modified Widman Flap*
  - *Flap + Bone Graft*
  - *Flap + Bone Graft + Membranes*
- *Gingivectomy/Gingivoplasty*
- *Root Coverage Procedures*
  - *Pedicle Grafts*
  - *Coronally Repositioned Flap*
  - *Free Gingival Grafts*
  - *Subepithelial Grafts*
- *Ridge Augmentation Procedures*
  - *Soft Tissue Augmentation*
  - *Hard Tissue Augmentation*
- *Crown Lengthening Procedures*
- *Frenectomy*



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- *Electrosurgery*
- *Cryosurgery*
- *Depigmentation Procedures*
- *Splinting*
- *Occlusal Adjustments*
- *Management Of Endo-Perio Lesions*
- *Implants*

1. **Scaling and root planning** : Undergraduate students are trained in complete case history, diagnosis and hand and ultrasonic scaling procedure.
2. **The Lecture methods:** Theory classes will be conducted on a regular basis using LCD projectors.
3. **Interactive Teaching:** One to one interaction with every student will be held regularly to monitor their academic performances and to clarify their doubts.
4. **Project based learning:** Practical approach is implemented in teaching students by giving them projects such as flipcharts, posters etc.
5. **Evidence based learning:** Students are motivated to refer various available evidence and analyze practicability to their case to help them select and appropriate treatment plan.
6. **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.
7. **Identification of slow and advanced learners:** In all batches advanced and slow



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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.

8. **Intensive clinical training:** students will be encouraged to be a part of special case discussions to expand their horizon of learning.
9. **Competitions:** In the department students are encouraged to take part in extracurricular activities like scientific quiz programs, Inter department presentations.
10. **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.
11. **Awareness programs:** The students are taken to Dental camps held by the college to create awareness among the public, Oral Hygiene Day is celebrated every year in the college with mad acts and skits.

#### 12. Course Objectives and outcomes

Sl. No.	Programme	Name of the course	Course Outcome
1.a	Periodontology - MDS	Applied Basic Sciences: Applied Anatomy, Physiology & Biochemistry Pathology,	This module enables students to develop a systematic understanding and knowledge of the subject including relevant basic sciences. It also allows students to develop a comprehensive understanding of fundamental





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		Microbiology, Pharmacology, Research Methodology & Biostatistics	skills in subject areas essential the course
1.b		Normal periodontal structures, aetiology and pathogenesis of periodontal disease, epidemiology as related to periodontology	This module gives an advanced understanding of Periodontal , structure, multifactorial pathogenesis of periodontal disease and epidemiology. The histology, physiology & pathogenesis embryology of the periodontal structures, bone of periodontal metabolism, inflammation, immunology, diseases, periodontal lesions, microbiology and pathology of the periodontium are taught
1,c		Diagnosis, Therapy & an Introduction to Oral Implantology	This module teaches students to be competent in periodontal assessment, diagnosis and treatment planning. Students will develop an understanding of management of cases. Clinical examination and documentation, periodontal pocket charting, photography, radiography, diagnostic tools and treatment planning will be taught including



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			the delivery of treatment with dental implants.
1.d		Complex Periodontal Treatment And Multidisciplinary Case Management	This module teaches students to manage complex periodontal cases with a multi-disciplinary approach. Students will be taught the relationship between Periodontology & other dental specialties and the inter link between periodontitis and systemic diseases. At the end of the course, students will be able to perform procedures where there is orthodontic, prosthodontics, endodontic or systemic health considerations, or where advanced dental implant considerations are planned.



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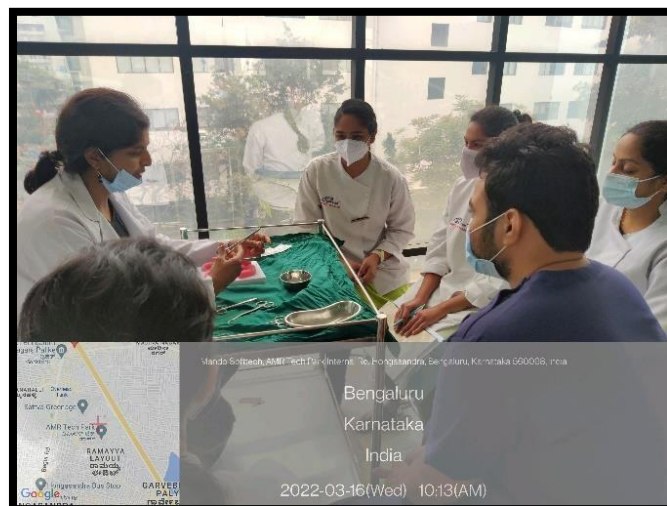
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## **Geotagged Photograph for Display of Program Wise - Program Objectives & Course Objectives in all Departments**



### **Demonstration of LASER**





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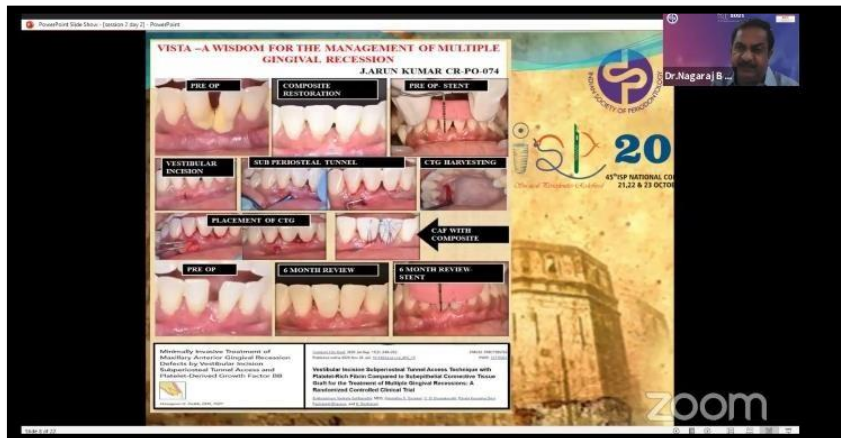
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## Demonstration on types of suture and how to suture



**Students attending lecture on LASERS**



**Post graduate students attended 45<sup>th</sup> ISP conference**





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R-PO-142

### Future of periodontics lies in artificial intelligence: myth or reality?

**Introduction:** Artificial intelligence (AI) is a commonly used term as a result of adopting an overly generalized representation. AI has also been applied in the medical decision-making process, and these AI systems can help non-specialists to obtain expert-level information.

#### Haptics-based virtual reality periodontal training simulator

The user interacts with the simulator via a stereoscopic display and a haptic device. The simulator allows the trainee to manipulate the position and the orientation of the virtual periodontal instrument by holding a haptic stylus, which has similar dimensions of the ones of the real instruments.

Virtual periodontal probe  
Virtual explorer  
Virtual scaler

Measuring pocket depth with periodontal probe  
Calculi being removed with a scaler  
Periodontal probe and one of its templates showing the appropriate orientation of the instrument

#### Simulations of Ultrasonographic Periodontal

3D simulations of ultrasonic periodontal probe measurements, using a parallel finite integration technique which is adaptable enough to create realistic anatomical geometries. The outputs of the simulation include 3D pressure values distributed throughout the periodontal anatomy.

Transducers at base of tip (width & recessive occlusal)  
Hollow tip structure (acoustic waves are periodontal tissues)  
Integral energetic position (output)  
Quick, disseminated the signal and computer files.

2D vertical cross sections of the acoustic pressure waves, and the pressure across the face of the transducer which is used to synthesize the ultrasonic echo. The energy values for different simulations are calculated from the 3D pressure values to describe the amount of energy reaching different zones, especially the junctional epithelium.

Pre-Processing: Original data (ultrasonic data) is processed and converted into a format suitable for simulation.  
Post-Processing: Simulated data (ultrasonic data) is processed and converted into a format suitable for simulation.

**Conclusions:** The included studies describe that AI is a reliable tool to make dental care smooth, better, time-saving, and economical for practitioners. AI benefits them in fulfilling patient demand and expectations. The dentists can use AI to ensure quality treatment, better oral health care outcome, and achieve precision. AI can help to predict failures in clinical scenarios and depict reliable solutions. However, AI is increasing the scope of state-of-the-art models in dentistry but is still under development.

Review poster presented at the 45<sup>th</sup> ISP conference







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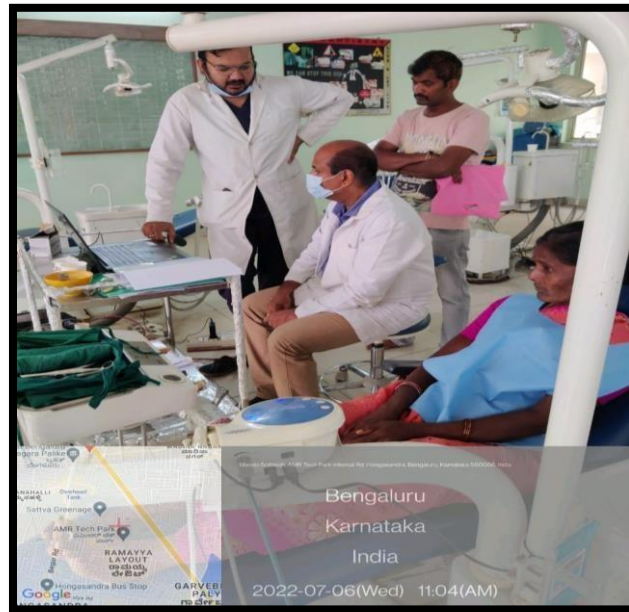
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## **PG Student recording detailed case history of the patient**



**Student having case discussion with Staff**



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**DEPARTMENT OF PUBLIC HEALTH DENTISTRY**

**MDS**

**Objectives**

At the end of 3 years of training the candidate should be able to:

**Knowledge**

- apply basic sciences knowledge regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level.
- Identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of Community Oral Health Program.
- Ability to conduct Oral Health Surveys in order to identify all the oral health problems affecting the community and find solutions using multi - disciplinary approach.
- Ability to act as a consultant in community Oral Health, teach, guide and take part in research (both basic and clinical), present and publish the outcome at various scientific conferences and journals, both national and international level.

**Skills**

1. Take history, conduct clinical examination including all diagnostic procedures to arrive at diagnosis at the individual level and conduct survey of the community at state and national level of all conditions related to oral health to arrive at community diagnosis. Plan and perform all necessary treatment, prevention and promotion of Oral Heal at the individual and community level.

2. Plan appropriate Community Oral Health Program, conduct the program and evaluate, at the community level.

3. Ability to make use of knowledge of epidemiology to identify causes and appropriate preventive and control measures.

1. Develop appropriate person power at various levels and their effective utilization.
1. Conduct survey and use appropriate methods to impart Oral Health Education.
2. Develop ways of helping the community towards easy payment plan, and followed by evaluation for their oral health care needs, Develop the planning, implementation, evaluation and administrative skills to carry out successful community Oral Health Programs.

**Values:**

1. Adopt ethical principles in all aspects of Community Oral Health Activities.



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2. To apply ethical and moral standards while carrying out epidemiological researches.
3. Develop communication skills, in particular to explain the causes and prevention of oral diseases to the patient.
4. Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed and promote teamwork approach.
2. Respect patient's rights and privileges including patients right to information and right to seek a second opinion

**SYLLABUS**

**I. Applied Anatomy and Histology**

**A. Applied Anatomy in relation to:**

- # Development of face
  - # Bronchial arches
  - # Muscles of facial expression
  - # Muscles of mastication
  - # TMJ
  - # Salivary gland
  - # Tongue
  - # Salivary gland
  - # Tongue
  - # Hard and soft palate
  - # Infratemporal fossa
  - # Paranasal air sinuses
  - # Pharynx and larynx
  - # Cranial and spinal nerves- with emphasis on trigeminal, facial, glossopharyngeal and hypoglossal nerve
  - # Osteology of maxilla and mandible
  - # Blood supply, venous and lymphatic drainage of head and neck
  - # Lymph nodes of head and neck
  - # Structure and relations of alveolar process and edentulous mouth
  - # Genetics-fundamentals
- B. Oral Histology**
- # Development of dentition, Innervations of dentin and pulp
  - # Periodontium-development, histology, blood supply, nerve supply and lymphatic drainage
  - # Oral mucous membrane
  - # Pulp-periodontal complex

**II. Applied Physiology and Biochemistry:**

\_ Cell



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- \_ Mastication and deglutition
- \_ Food and nutrition
- \_ Metabolism of carbohydrates, proteins and fats
- Vitamins and minerals
- Fluid and electrolyte balance
- Pain pathway and mechanism-types, properties
- Blood composition and functions, clotting mechanism and erythropoiesis, Blood groups and transfusions, Pulse and blood pressure,
- Dynamics of blood flow
- Cardiovascular homeostasis-heart sounds
- Respiratory system: Normal physiology and variations in health and diseases, Asphyxia and artificial respiration
- Endocrinology: thyroid, parathyroid, adrenals, pituitary, sex hormones and pregnancy, Endocrine regulation of blood sugar.

**III A. Applied Pathology:**

- # Pathogenic mechanism of molecular level
- # Cellular changes following injury
- # Inflammation and chemical mediators
- # Oedema, thrombosis and embolism
- # Hemorrhage and shock
- # Neoplasia and metastasis
- # Blood disorders
- # Histopathology and pathogenesis of dental caries, periodontal disease, oral mucosal lesions, and malignancies, HIV
- # Propagation of dental infection

**B. Microbiology**

- Microbial flora of oral cavity
- Bacteriology of dental caries and periodontal disease
- Methods of sterilization
- Virology of HIV, herpes, hepatitis
- Parasitology
- Basic immunology - basic concepts of immune system in human body Cellular and humoral immunity, Antigen and antibody system, Hypersensitivity and Autoimmune diseases

**C. Oral Pathology**

- Detailed description of diseases affecting the oral mucosa, teeth, supporting tissues and jaws.



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#### **IV. Physical and Social Anthropology**

- Introduction and definition
- Appreciation of the biological basis of health and disease
- Evolution of human race, various studies of different races by anthropological methods

#### **V. Applied Pharmacology:**

- Definition, scope and relations to other branches of medicine, mode of action, bioassay, standardization, pharmacodynamics, pharmacokinetics.
- Chemotherapy of bacterial infections and viral infections - sulphonamides and antibiotics.
- Local anesthesia
- Analgesics and anti-inflammatory drugs
- Hypnotics, tranquilizers and antipyretics
- Important hormones- ACTH, cortisone, insulin and oral antidiabetics.
- Drug addiction and tolerance
- Important pharmacological agents in connection with autonomic nervous system- adrenaline, noradrenaline, atropine
- Brief mention of antihypertensive drugs
- Emergency drugs in dental practice
- Vitamins and haemopoietic drugs

#### **VI. Research Methodology and Biostatistics:**

Health informatics: basic understanding of computers and its components, operating software (Windows), Microsoft office, preparation of teaching materials like slides, project, Multimedia knowledge. Research methodology- definitions, types of research, designing written protocol for research, objectivity in methodology, quantification, records and analysis.

Biostatistics-introduction, applications, uses and limitations of bio - statistics in Public Health dentistry, collection of data, presentation of data, measures of central tendency, measures of dispersion, methods of summarizing, parametric and non-parametric tests of significance, correlation and regression, multivariate analysis, sampling and sampling techniques - types, errors, bias, trial and calibration

COMPUTERS-Basic operative skills in analysis of data and knowledge of multimedia.

#### **First Year MDS**

- 5 seminars in basic sciences subject,
- To conduct 10 journal clubs Library assignment on assigned topics - 2
- Submission of synopsis for dissertation-within 6 months





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- Periodic review of dissertation at two monthly intervals

#### **Clinical Training**

1. Clinical assessment of patient
  2. Learning different criteria and instruments used in various oral indices - 5 cases each
    - Oral Hygiene Index - Greene and Vermillion
    - Oral Hygiene Index - Simplified
    - DMF - DMF (T), DMF (S)
    - Def
    - Fluorosis Indices - Dean's Fluorosis Index, Tooth Surface Index for Fluorosis and the Thylstrup Fejerskov Index.
- Community Periodontal Index (CPI) Plaque Index-Silness and Loe WHO Oral Health Assessment Form - 1997
- Carrying out treatment (under comprehensive oral health care) of 10 patients - maintaining complete records.

#### **Field Programme:**

1. Carrying out preventive programs and health education for school children of the adopted school.
2. School based preventive programs-
  - Topical Fluoride application-Sodium Fluoride, Stannous Fluoride, AckW\* Phosphate Fluoride preparations and Fluoride varnishes, Fluoride mouth rinses
  - Pit and Fissure Sealant - chemically cured (GIC), light cured
  - Minimal Invasive Treatment-Preventive Resin Restorations (PRR), Atraumatic Restorative Treatment (ART)
  - Organizing and carrying out dental camps in both urban and rural areas.
3. Visit to slum, water treatment plant, sewage treatment plant, and Milk dairy, Public Health Institute, Anti-Tobacco Cell, Primary Health Center and submitting reports.
4. In additions the postgraduate shall assist and guide the under graduate students in their clinical and field programs.

#### **B) Public Health**

##### **Public Health:**

- Definition, concepts and philosophy of dental health
- History of public health in India and at international level
- Terminologies used in public health

##### **Health:**

- Definition, concepts and philosophy of health
- Health indicators
- Health determinants



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- Community and its characteristics and relation to health

**Disease:**

- Definition, concepts
- Multifactorial causation, natural history, risk factors
- Disease control and eradication, evaluation and causation, infection of specific diseases
- Vaccines and immunization

**General Epidemiology:**

- Definition and aims, general principles
- Multifactorial causation, natural history, risk factors
- Methods in epidemiology, descriptive, analytical, experimental and classic epidemiology of specific diseases, uses of epidemiology
- Duties of epidemiologist
- General idea of method of investigating chronic diseases, mostly non-infectious nature, epidemic, endemic, and pandemic.
- Ethical conversation in any study requirement
- New knowledge regarding ethical subjects
- Screening of diseases and standard procedures used

**Environmental Health:**

- Impact of important components of the environment of health
- Principles and methods of identification, evaluation and control of such health hazards
- Pollution of air, water, soil, noise, food
- Water purification, international standards of water
- Domestic and industrial toxins, ionizing radiation
- Occupational hazards
- Waster disposal- various methods and sanitation

**Public Health Education:**

- Definition, aims, principles of health education
- Health education, methods, models, contents, planning health education programs

**Public Health Practice and Administration System in India.**

**Ethics and Jurisprudence:**

- Basic principles of law
- Contract laws- dentist – patient relationships & Legal forms of practice
- Dental malpractice
- Person identification through dentistry
- Legal protection for practicing dentist
- Consumer protection act



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#### **Nutrition in Public Health:**

- Study of science of nutrition and its application to human problem
- Nutritional surveys and their evaluations
- Influence of nutrition and diet on general health and oral health, dental caries, periodontal disease and oral cancers
- Dietary constituents and cariogenicity
- Guidelines for nutrition

#### **Behavioral Sciences:**

- Definition and introduction
- Sociology: social class, social group, family types, communities and social relationships, culture, its effect on oral health.
- Psychology: definition, development of child psychology, anxiety, fear and phobia, intelligence, learning, motivation, personalities, fear, dentist-patient relationship, modeling and experience

#### **Hospital Administration:**

- Departmental maintenance, organizational structures
- Types of practices
- Biomedical waste management

#### **Health Care Delivery System:**

- International oral health care delivery systems – Review
- Central and state system in general and oral health care delivery system if any
- National and health policy
- National health programmes
- Health Planning and Evaluation
- Primary health care – concepts, oral health in PHC and its implications
- National and international health organizations
- Dentists Act 1928, Dental council of India, Ethics, Indian Dental Association
- Role of W.H.O. and Voluntary organizations in Health Care for the Community

#### **Oral Biology and Genetics:**

- A detailed study of cell structure
- Genetic approaches in the study of oral disorders
- Genetic Engineering - Answer to current health problems

#### **Demography & Family Planning:**

- Demographic trends, family planning methods, milestones in population control in India.
- **Health Economics:**



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- Health benefit analysis and Cost effective analysis

**C) Dental Public Health:**

- Dental Public Health:
- History
- Definition and concepts of dental public health
- Differences between clinical and community dentistry
- Critical review of current practice
- Dental problems of specific population groups such as chronically ill, handicapped and institutionalized group
- Introduction to Genetics, Gene structure, DNA, RNA Genetic counseling, gene testing

Epidemiology of Oral Diseases and Conditions:

- Dental caries, gingival, periodontal disease malocclusion, dental Fluorosis, oral cancer, TMJ disorders and other oral health related problems.

Oral Survey Procedures:

- Planning
- Implementation
- WHO basic oral health methods 1997
- Indices for dental diseases and conditions
- Evaluation

Delivery of Dental Care:

- Dental person power – dental auxiliaries
- Dentist – population ratios,
- Public dental care programs
- School dental health programs- Incremental and comprehensive care
- Private practice and group practice
- Oral health policy – National and international policy

Payment for Dental Care:

- Prepayment
- Post-payment
- Reimbursement plans
- Voluntary agencies
- Health insurance



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#### Evaluation of Quality of Dental Care:

- Problems in public and private oral health care system program
- Evaluation of quality of services, governmental control

#### **Seminars:**

- Seminars on recent advances in Preventive Dentistry and Dental Public Health
- Critical evaluation of scientific articles – 10 articles
- Completion and submission of dissertation • Clinical assessment of patient
- Learning different criteria and instruments used in various oral indices assessing oral hygiene, periodontal disease, wasting disease, flourosis and malocclusion – 5 each
- Oral Hygiene Index – Greene and Vermillion
- Oral Hygiene Index – Simplified
- DMF – DMF (T), DMF (S)
- def t/s
- Fluorosis Indices – Dean's Fluorosis Index, Tooth Surface Index for Fluorosis, Thylstrup and Fejerskov Index
- Community Periodontal Index (CPI)
- Plaque Index-Silness and Loe, gingival index – Loe and Silness
- Russels periodontal disease index

#### **Clinical Training:**

- WHO Oral Health Assessment Form – 1987
- Carrying out treatment (under comprehensive oral health care) of 10 patients – maintaining complete records
- Carrying out school dental health education
- School based preventive programs-
- To take lecture classes (2) for Undergraduate students in order to learn teaching methods (pedagogy) on assigned topic
- Exercise on solving community health problems – 10 problems
- Application of the following preventive measures in clinic – 10 cases each.
- Dental – health education training of school teachers, social workers, health workers,
- Posting at dental satellite centers/ nodal centers
- In addition the post graduate shall assist and guide the under graduate students in their clinical and field programs.
  - Topical Fluoride application – Sodium Fluoride, Stannous Fluoride, Acidulated Phosphate Fluoride preparations and Fluoride varnishes.





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- Pit and Fissure Sealant
- Minimal Invasive Techniques – Preventive Resin Restorations (PRR), Atraumatic Restorative Treatment (ART)
- Topical Fluoride application – Sodium Fluoride, Stannous Fluoride, Acidulated Phosphate Fluoride preparations

## **BDS**

### **Course Objectives and Course Outcomes**

- Apply the principles of health promotion and disease prevention
- Have knowledge of the organization and provision of health care in community and in the hospital service
- Have knowledge of the prevalence of common dental conditions in India.
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and env. Factors which contribute to health or illness.
- Administer and hygiene instructions, topical fluoride therapy and fissure sealing.
- Educate patients concerning the aetiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

Attributes as per RGUHS guidelines for BDS curriculum

#### **(A) 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 and data.



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2. 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 well being of the patient.
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.
4. Adequate clinical experience required for general dental practice.
5. Adequate knowledge of the constitution, biological function and behaviour 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.

(B) 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 carrying out various surgical and other procedures.
3. Possess skill to carry out certain investigative procedures and ability to interpret laboratory 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 dental treatment.

(B) ATTITUDES: A graduate should develop during the training period the following attitudes.

1. 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 all aspects of professional life.



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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:

- Apply the principles of health promotion and disease prevention
- Have knowledge of the organization and provision of health care in community and in the hospital service
- Have knowledge of the prevalence of common dental conditions in India.
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and env. Factors which contribute to health or illness.
- Administer and hygiene instructions, topical fluoride therapy and fissure sealing.
- Educate patients concerning the aetiology and prevention of oral disease and encourage them to assure responsibility for their oral health

#### BDS syllabus:

#### III BDS



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Sl No.	Topic	No.of hours	Year of study
1	Introduction to Dentistry: Definition of Dentistry, History of Dentistry, Scope, aims and objectives of Dentistry.	4	III BDS
2	<b>Public Health:</b>		
	i. Health & Disease: - Concepts, Philosophy, Definition & Characteristics	5	
	ii. Public Health: - Definition & Concepts, History of public health	4	
	iii. Dentist Act 1948 with amendment. Dental Council of India and state Dental Councils, Composition and responsibilities.,	1	
	iv. Indian Dental association, Head Office, State and local branches	1	

#### Practicals/clinicals/field programmes in Public Health Dentistry

These exercises designed to help the student in III year:

1. To Understand the community aspects of dentistry
2. To take up leadership role in solving community oral health programme
3. To gain hands on experience on research methodology.



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**1. Short term research project: Epidemiology & Advocacy**

Purpose: Apply the theory and practice of epidemiology, planning and evaluation, statistics to dental public health. Most of the students are unfamiliar with research and hence this short term project which will be divided across 2 years [III & IV BDS] would address this issue.

Depending on the topic chosen student can incorporate

- Collection of statistical data (demographic) on population in India, birth rates, morbidity and mortality, literacy, per capita income
- Incidence and prevalence of common oral diseases like dental caries, periodontal disease, oral cancer, fluorosis at national and international levels.
- Oral health status assessment of the community using indices and WHO basic oral health survey methods collection.

**2. Field visits:**

- Visit to primary health centre-to acquaint with activities and primary health care delivery
- Visit to water purification plant/public health laboratory/ centre for treatment of western and sewage water
- Visit to institution for the care of handicapped, physically, mentally, or medically compromised patients

**3 Preventive Dentistry:**

Including case history, recording of indices, application of pit and fissure sealants, fluoride gel application procedure, A. R. T.

Health talk: Minimum of 12 per year

**IV BDS:**





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Topic	No. of hours	Year of study
<b>1. PUBLIC HEALTH</b>		
i. General Epidemiology:- definition, objectives, methods	2	
ii. Environment Health: - Concepts, principles, protection, sources, purification environmental sanitation of water, disposal of waste sanitation, role in mass disasters	2	
iii. Health Education: -Definition, concepts, principles, methods, and health education aids	2	
iv. Public Health Administration: -Priority, establishment, manpower, private practice management, hospital management.	2	
v. Ethics and Jurisprudence: Professional liabilities, negligence, malpractice, consents, evidence, contrasts, and methods of identification in forensic dentistry.	2	



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Vi .Behavior sciences: Definition of sociology, anthropology and psychology and application in dental practice and community	2	<b>IV BDS</b>
vii. Health care delivery system: Center and state, oral health policy, primary health care, national programmes, health organizations.	2	
<b>2. Dental Public Health</b>		
i. Definition and difference between community and clinical health.	2	
ii. Nutrition in oral diseases	2	
iii. Delivery of dental care: Dental auxiliaries, operational and non- operational, incremental and comprehensive health care, school dental health, Planning & Evaluation	4	
	1	
iv. Payments of dental care: Methods of payments and dental insurance, government plans	2	
<b>3. Preventive Dentistry</b>		
i. Definition, Levels, role of individual	5	



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<p>community and profession, fluorides in dentistry,          plaque control programmes.</p> <p>ii. Prevention of dental caries, Prevention of          periodontal disease Prevention of oral cancer,          Prevention of malocclusion          Atraumatic Restorative Treatment(ART)          Occupational Hazards          Evidence Based Dentistry(EBD)</p>		
<b>Research Methodology and Dental Statistics</b>	6	
4. Health Information: - Basic knowledge of Computers, MS Office, Window 2000, Statistical Programmes	1	
5. Research Methodology: -Definition, types of research, designing a written protocol	1	
6. Bio-Statistics: - Introduction, collection of data, presentation of data, Measures of Central tendency, measures of dispersion, Tests of significance, Sampling and sampling techniques-types, errors, bias, blind trail and calibration.	5	



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<b>7. Practice Management</b>	2	
1. Place and locality		
2. Premises & layout		
3. Selection of equipments		
4. Maintenance of records/accounts/audit.		

**Practicals/clinicals/field programmes in Public Health Dentistry**

These exercises designed to help the student in V year:

1. To Understand the community aspects of dentistry
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Topic	Hours of study
<p>1. <b>Oral health education material preparation</b></p> <ul style="list-style-type: none"> <li>•Preparation of health education materials posters, models, slides Lectures, play acting skits etc.</li> </ul>	10 hours
<p>2. <b>Visit to school</b></p> <ul style="list-style-type: none"> <li>•To assess the oral health status of school children, Emergency treatment and health education including possible preventive Care at school (tooth brushing technique demonstration and oral rinse programme etc.)</li> </ul>	20 hours
<p>3. <b>Preventive dentistry and health talk:</b></p> <ul style="list-style-type: none"> <li>•Including case history, recording of indices, application of pit and fissure Sealants, fluoride gel application procedure, A.R.T.</li> <li>Health talk: Minimum of 12 per year</li> </ul>	30 hours
<p>4. <b>Exploring the setting of dental practice</b></p> <ul style="list-style-type: none"> <li>•Exploring and planning setting of private dental clinics in rural, semi- Urban and urban locations, availment of finances for dental practices, preparing project report.</li> </ul>	10 hours





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<p><b>5. Rural postings</b></p> <ul style="list-style-type: none"><li>• Comprehensive care including oral health education in rural areas for Disadvantaged population.</li></ul>	<p>80 hours</p>
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## **DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS**

- 1) The Education program in the Department of conservative dentistry and endodontics at The Oxford Dental College and Research Centre focuses on providing the students with holistic knowledge and necessary skills required for everyday practice. The students are educated to provide ethical, patient-centred, evidence-based Orthodontic treatment. In addition, our aim is to graduate students as pioneers who possess advanced technical skills with a comprehensive scientific foundation, thirst for knowledge, and the capacity to become better clinicians in the field of orthodontics education and research. The three year post graduate programme not only focuses on sound theoretical basis, but also a development of critical analysis of problems and a spirited approach towards solving the same.
- 2) The program places equal emphasis on clinical ability, research skills, and leadership capabilities. We do this through our commitment to the transformative power of providing best education available. This begins in our classrooms with exposure to new ideas, new ways of learning and with the help of technology we create a diverse learning environment, where students are encouraged towards intellectual transformation. We also aim to maintain highest standards of excellence and professionalism in all aspects of patient centered practice with research being an integral part of our department.
- 3) We religiously follow the curriculum provided by Rajiv Gandhi University of Health Sciences (RGUHS), with the best interest of our BDS students we conduct weekly tests, group discussions, textbook reading, assignments, have one to one interaction to clear their



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doubts and each student is assigned a mentor to help them academically. Whereas our Post Graduate students are encouraged to take part in scientific research and competitive sectors to expand their knowledge, with dissertation we also do short studies and publications pertaining to the new age endodontics .

### Program Objectives – Program Wise

1. Preclinical work: students are trained in preclinical lab where training is given for tooth preparation, manipulation and restoration of teeth with various tooth materials on dummy models in simulated oral environment.
2. 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.
3. Interactive Teaching: One to one interaction with every student will be held regularly to monitor their academic performances and to clarify their doubts.
4. Evidence based learning: Students are taken to clinical set up and taught to diagnose the dental caries, non carious lesions ,fractured cases , pulp and periapical pathology under the assistance of their mentors.
5. 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.
6. 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



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understand the subject better through approaches like conducting daily tests, Textbook reading, and one to one discussion.

7. Intensive clinical training: students will be encouraged to be a part of special case discussions to expand their horizon of learning.
8. Competitions: In the department students are encouraged to take part in extracurricular activities like scientific quiz programs, Inter department presentations.
9. 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.
10. 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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Sl. No.	Name of program	Name of course	Course outcome
4.a	MDS- Conservative Dentistry & Endodontics	Applied Basic Sciences	<ol style="list-style-type: none"> <li>1. The student should be competent at applying knowledge and skill of basic sciences in conservative dentistry and endodontic. Should be capable of taking case history, perform diagnostic procedures, interpret relevant tests– both medical and dental and arrive at a diagnosis of the dental condition in Conservative Dentistry and Endodontic.</li> <li>2. In emergency situations the student should be able to provide basic lifesaving support.</li> <li>3. The student should be capable of following all recommended infection control protocols in the dental clinic ad lab.</li> <li>4. The student should exhibit high standard of professional ethical behavior and provide dental care regardless of social status, caste, creed or religion of the patient.</li> <li>5. The student should be capable of motivating the patient on maintenance of oral health, communicate on the various treatment options available and obtain informed consent.</li> <li>6. Student should be adept applying at ethical principles in human and</li> </ol>





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4.b			<p>animal research in conservative dentistry and endodontic.</p> <ol style="list-style-type: none"> <li>1. Student should be proficient in examination, diagnosis and treatment plan in restorative and esthetic dentistry.</li> <li>2. Should have expertise in performing all kinds of direct and indirect restorations, esthetic restorations, management of non-carious lesions, management of discolored tooth and minimal invasive dentistry.</li> </ol>
4.c			<ol style="list-style-type: none"> <li>1. The student should be qualified on patho-biology of pulp and periapex, oro-facial dental pain emergencies, endodontic diagnosis and management. The student should be competent in management of traumatic injuries, endo-perio lesions, endodontic retreatment, surgeries and challenging clinical cases requiring in comprehensive management.</li> <li>2. Should be capable of differential diagnosis and recognize conditions that require inter-disciplinary approach and refer patient to the appropriate specialist.</li> <li>3. Should be efficient in documenting patient records and monitoring the patient recall.</li> <li>4. To upscale the knowledge and skill in restorative dentistry, esthetic dentistry and endodontics, the student should attend conferences and workshops.</li> <li>5. The student should be able to conduct relevant research in basic science and clinical aspect. The findings should be presented in specialty conferences and publish it.</li> </ol>



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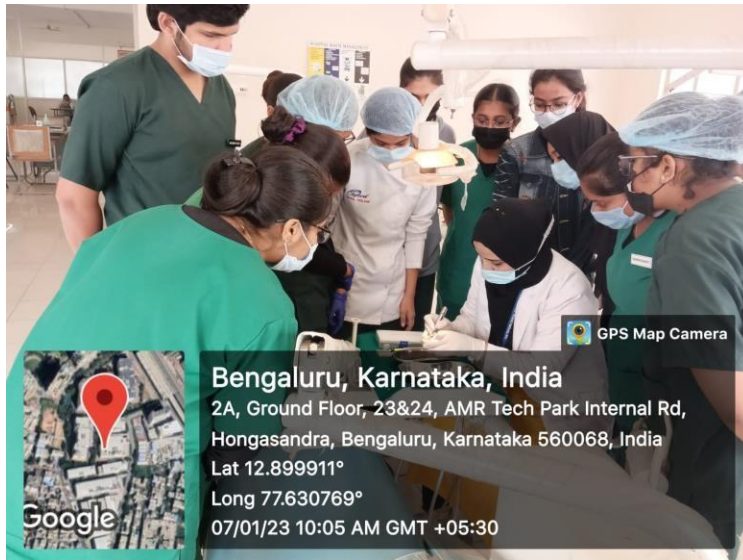
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## Geotagged Photograph for Display of Program Wise - Program Objectives & Course Objectives in all Departments



### Demonstration for undergraduate students by staff in ug clinic



### Demonstration for undergraduates students by staff in preclinical lab





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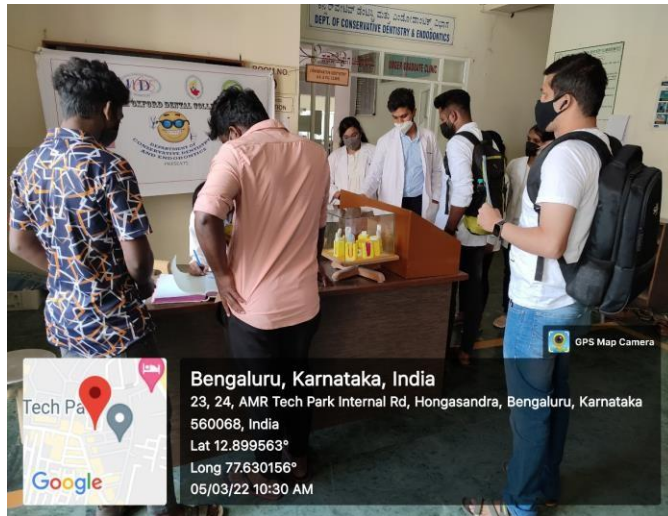
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**Celebrating cons endo week**



**Patients education**



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**Endo marathon**



**esthetic day**

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