



**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.

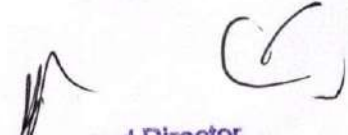
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**List of Competencies**

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### **Oral Medicine & 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
- 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

  
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- Recognition and initial management of medical emergencies that may occur during Dental treatment
- Perform basic cardiac life support
- Management of pain including post operative
- Administration of all forms of local anesthesia
- 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
- Able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned specialty 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 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.

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### **Curriculum of Dental Internship Programme**

- The duration of Internship shall be one year.
- 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.
- The Interns shall be paid stipendiary allowance during the period of an Internship not extending beyond a period of one year.
- The internship shall be compulsory and rotating as per the regulations prescribed for the purpose.
- The degree- BDS shall be granted after completion of internship.
- Determinants of Curriculum for internship for Dental Graduates:

**The curricular contents of internship training shall be based on.**

1. Dental health needs of the society.
2. Financial, material and manpower resources available for the purpose.
3. National Dental Health Policy.
4. Socio-economic conditions of the people in general.
5. Existing Dental as also the primary health care concept, for the delivery of health Service.
6. Task analysis of what graduates in Dentistry in various practice settings, private and government service actually performs.
7. 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: -

- Reinforcement of knowledge.
- Techniques & resources available to the individual and the community; Social and cultural setting.

Training in a phased manner, from a shared to a full responsibility.

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

- History taking.
- Clinical Examination.
- Performance and interpretation of essential laboratory data.
- Data analysis and inference.
- Communication skills aimed at imparting hope and optimism in the patient.

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• Attributes for developing working relationship in the Clinical setting and Community team work.

C. To facilitate development of sound attitudes and habits: -

- Emphasis on individual and human beings, and not on disease/symptoms.
- Provision of comprehensive care, rather than fragmentary treatment.
- 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)**

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 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.

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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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**Oral & Maxillofacial Surgery**

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

  
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**Conservative Dentistry & Endodontics**

- Competent to diagnose all carious lesions
- Competent to perform Class I and Class II cavities and their restoration with amalgam
- Restore class V and Class III cavities with glass ionomer cement
- Able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures)
- Able to perform RCT for anterior teeth
- Competent to carry out small composite restorations
- Understand the principles of aesthetic dental procedures



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**Periodontics**

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**

- 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

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**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
- Management of pain including post operative
- Administration of all forms of local anesthesia
- 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

**Periodontology**

- Diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment
- Competent to educate and motivate the patient
- Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor
- periodontal surgical procedures
- Give proper post treatment instructions and do periodic recall and evaluation
- Familiar with concepts of osseointegration and basic surgical aspects of implantology

  
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**Objectives:** The following objectives are laid out to achieve the goals of the course

**A) Knowledge:**

Discuss historical perspective to advancement in the subject proper and related topics.

- Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population.
- Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology.
- Describe various preventive periodontal measures.
- Describe various treatment modalities of periodontal disease from historical aspect to currently available ones.
- Describe interrelationship between periodontal disease and various systemic conditions. Describe periodontal hazards due to estrogenic causes and deleterious habits and prevention of it. Identify rarities in periodontal disease and environmental/Emotional determinates in a given case.
- Recognize conditions that may be outside the area of his/her Specialty/ competence and refer them to an appropriate Specialist
- Decide regarding non-surgical or surgical management of the case
- Update the student by attending courses, conferences and seminars relevant to periodontics or by self-learning process.
- Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his/her work in scientific journals
- Reach to the public to motivate and educate regarding periodontal disease, its prevention and consequences if not treated
- Plan out epidemiological survey to assess prevalence and incidence of early onset periodontitis and adult periodontitis in Indian population (Region wise)
- Shall develop knowledge, skill in the science and practice of Oral Implantology
- Shall develop teaching skill in the field of Periodontology and Oral Implantology
- Principles of Surgery and Medical Emergencies.
- To sensitize students about inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.

  
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## **2. Skills:**

- Take a proper clinical history, thorough examination of intra oral, extra oral, medical history evaluation, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis
- Effective motivation and education regarding periodontal disease maintenance after the treatment
- Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment
- Perform both non-surgical and surgical procedures independently
- Provide Basic Life Support Service (BLS) recognizes the need for advance life support and does the immediate need for that.
- Human values, ethical practice to communication abilities. Adopt ethical principles in all aspects of treatment modalities; Professional honesty & integrity are to be fostered. Develop Communication skills to make awareness regarding periodontal disease Apply high moral and ethical standards while carrying out human or animal research, be humble, accept the limitations in his/her knowledge and skill, and ask for help from colleagues when needed, Respect patients' rights and privileges, including patients right to information and right to seek a second opinion.
- To learn the principal of lip repositioning and peri esthetics surgeries.

## **Course Contents:**

### **Part-I: Applied Basic Sciences Applied Anatomy:**

1. Development of the Periodontium
2. Micro and Macro structural anatomy and biology of the periodontal tissues
3. Age changes in the periodontal tissues
4. Anatomy of the Periodontium
  - Macroscopic and microscopic anatomy
  - Blood supply of the Periodontium
  - Lymphatic system of the Periodontium
  - Nerves of the Periodontium
5. Temporomandibular joint, Maxillae and Mandible
6. Tongue, oropharynx
7. Muscles of mastication / Face
8. Blood Supply and Nerve Supply of Head & Neck and Lymphatics.
9. Spaces of Head & Neck

  
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**Physiology:**

1. Blood
2. Respiratory system – knowledge of the respiratory diseases which are a cause of periodontal diseases (periodontal Medicine)
3. Cardiovascular system a. Blood pressure b. Normal ECG c. Shock
4. Endocrinology – hormonal influences on Periodontium
5. Gastrointestinal system a
  - Salivary secretion – composition, function & regulation
  - Reproductive physiology
  - Hormones – Actions and regulations, role in periodontal disease
  - Family planning methods
6. Nervous system a. Pain pathways b. Taste – Taste buds, primary taste sensation & pathways for sensation.
7. Hemostasis

**Biochemistry:**

1. Basics of carbohydrates, lipids, proteins, vitamins, enzymes and minerals
2. Diet and nutrition and periodontium
3. Biochemical tests and their significance
4. Calcium and phosphorus

**Pathology:**

1. Cell structure and metabolism
2. Inflammation and repair, necrosis and degeneration
3. Immunity and hypersensitivity
4. Circulatory disturbances – edema, hemorrhage, shock, thrombosis, embolism, infarction and hypertension
5. Disturbances of nutrition
6. Diabetes mellitus
7. Cellular growth and differentiation, regulation
8. Lab investigations
9. Blood

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### **Microbiology:**

- General bacteriology a. Identification of bacteria b. Culture media and methods c. Sterilization and disinfection
- Immunology and Infection
- Systemic bacteriology with special emphasis on oral microbiology – staphylococci, genus actinomyces and other filamentous bacteria and actinobacillusactinomycetumcomitans
- Virology - a. General properties of viruses b. Herpes, Hepatitis, virus, HIV virus
- Mycology a. Candidiasis
- Applied microbiology
- Diagnostic microbiology and immunology, hospital infections and management

### **Pharmacology:**

1. General pharmacology
  - a. Definitions – Pharmacokinetics with clinical applications, routes of administration including local drug delivery in Periodontics
  - b. Adverse drug reactions and drug interactions
2. Detailed pharmacology of
  - a. Analgesics – opiod and nonopiod
  - b. Local anesthetics
  - c. Haematinics and coagulants, Anticoagulants
  - d. Vit D and Calcium preparations
  - e. Antidiabetics drugs
  - f. Steroids
  - g. Antibiotics
  - h. Antihypertensive
  - i. Immunosuppressive drugs and their effects on oral tissues
  - j. Antiepileptic drugs

  
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**3. Brief pharmacology, dental use and adverse effects of**

a. General anesthetics

b. Antipsychotics

c. Antidepressants

d. Anxiolytic drugs

e. Sedatives

f. Antiepileptics

g. Antihypertensives

h. Antianginal drugs

i. Diuretics

j. Hormones

k. Pre-anesthetic medications

**4. Drugs used in Bronchial asthma, cough**

**5. Drug therapy of**

a. Emergencies

b. Seizures

c. Anaphylaxis

d. Bleeding

e. Shock

f. Diabetic ketoacidosis

g. Acute addisonian crisis

**6. Dental Pharmacology**

a. Antiseptics


b. Astringents

c. Sialogogues

d. Disclosing agents

e. Antiplatelet agents

**7. Fluoride pharmacology**

  
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**Biostatistics:**

1. Introduction, definition and branches of biostatistics
2. Collection of data, sampling, types, bias and errors
3. Compiling data-graphs and charts
4. Measures of central tendency (mean, median and mode), standard deviation and variability
5. Tests of significance (chi square test, t-test and z-test) Null hypothesis

**Part II Paper 1 Etiopathogenesis:**

1. Classification of periodontal diseases and conditions
2. Epidemiology of gingival and periodontal diseases
3. Defense mechanisms of gingival
4. Periodontal microbiology
5. Basic concepts of inflammation and immunity
6. Microbial interactions with the host in periodontal diseases
7. Pathogenesis of plaque associated periodontal diseases
8. Dental calculus
9. Role of iatrogenic and other local factors
10. Genetic factors associated with periodontal diseases
11. Influence of systemic diseases and disorders of the periodontium
12. Role of environmental factors in the etiology of periodontal disease
13. Stress and periodontal diseases
14. Occlusion and periodontal diseases
15. Smoking and tobacco in the etiology of periodontal diseases
16. AIDS and periodontium
17. Periodontal medicine
18. Dentinal hypersensitivity

  
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**Paper-II Clinical and Therapeutic Periodontology and Oral Implantology**

Please note: Clinical periodontology includes gingival diseases, periodontal diseases, periodontal instrumentation, diagnosis, prognosis and treatment of periodontal diseases.

**(I) Gingival Diseases**


1. Gingival inflammation
2. Clinical features of gingivitis
3. Gingival enlargement
4. Acute gingival infections
5. Desquamative gingivitis and oral mucous membrane diseases
6. Gingival diseases in the childhood

**(II) Periodontal Diseases**

1. Periodontal pocket
2. Bone loss and patterns of bone destruction
3. Periodontal response to external forces
4. Masticatory system disorders
5. Chronic periodontitis
6. Aggressive periodontitis
7. Necrotizing ulcerative periodontitis
8. Interdisciplinary approaches - Orthodontic - Endodontic

**(III) Treatment of Periodontal Diseases**

- A. History, examination, diagnosis, prognosis and treatment planning
  1. Clinical diagnosis
  2. Radiographic and other aids in the diagnosis of periodontal diseases
  3. Advanced diagnostic techniques
  4. Risk assessment
  5. Determination of prognosis
  6. Treatment plan

  
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**7. Rationale for periodontal treatment**

8. General principles of anti-infective therapy with special emphasis on infection control in periodontal practice

9. Halitosis and its treatment

10. Bruxism and its treatment

**B. Periodontal instrumentation**

1. Periodontal Instruments

2. Principles of periodontal instrumentation

3. Periodontal therapy

4. Preparation of tooth surface

5. Plaque control

6. Anti-microbial and other drugs used in periodontal therapy and wasting diseases of teeth

7. Periodontal management of HIV infected patients

8. Occlusal evaluation and therapy in the management of periodontal diseases

9. Role of orthodontics as an adjunct to periodontal therapy

10. Special emphasis on precautions and treatment for medically compromised patients

11. Periodontal splints

12. Management of dentinal hypersensitivity

**D. Periodontal surgical phase – special emphasis on drug prescription**

1. General principles of periodontal surgery

2. Surgical anatomy of periodontium and related structures

3. Gingival curettage


4. Gingivectomy technique

5. Treatment of gingival enlargements

6. Periodontal flap

7. Osseous surgery (resective and regenerative)

8. Furcation; Problem and its management

  
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9. The periodontic – endodontic continuum

10. Periodontic plastic and esthetic surgery

11. Recent advances in surgical techniques

**E. Future directions and controversial questions in periodontal therapy**

1. Future directions for infection control

2. Research directions in regenerative therapy

3. Future directions in anti-inflammatory therapy

4. Future directions in measurement of periodontal diseases

**F. Periodontal maintenance phase**

1. Supportive periodontal treatment

2. Results of periodontal treatment

**(IV) Oral Implantology**

1. Introduction and historical review

2. Biological, clinical and surgical aspects of dental implants

3. Diagnosis and treatment planning

4. Implant surgery

5. Prosthetic aspects of dental implants

6. Diagnosis and treatment of Peri implant complications

7. Special emphasis on plaque control measures in implant patients

8. Maintenance phase

**(V) Management of Medical Emergencies in Periodontal Practice**

Periodontology treatment should be practiced by various treatment plans and more number of patients to establish skill for diagnosis and treatment and after care with bio-mechanical, biological, bio-esthetics, bio-phonetics and all treatment should be carried out in more number for developing clinical skill.

  
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### Teaching / Learning Activities:

The post graduate is expected to complete the following at the end of:

Sl. No.	Year Wise	Activities Works to Be Done
1.	Module 1 (First Year)	<p>Orientation to the PG program</p> <p><b>Pre-clinical work (4 months)</b></p> <p><b>a. Dental</b></p> <ol style="list-style-type: none"> <li>1. Practice of incisions and suturing techniques on the typodont models.</li> <li>2. Fabrication of bite guards and splints.</li> <li>3. Occlusal adjustment on the casts mounted on the articulator</li> <li>4. X-ray techniques and interpretation.</li> <li>5. Local anesthetic techniques.</li> <li>6. Identification of Common Periodontal Instruments.</li> <li>7. To learn science of Periodontal Instruments maintained (Sharpening , Sterilization and Storage)</li> <li>8. Concept of Biological width</li> </ol> <p><b>a. Typodont Exercise</b></p> <ol style="list-style-type: none"> <li>(i) Class II Filling with Band and Wedge Application</li> <li>(ii) Crown cuttings</li> </ol> <p><b>b. Medical</b></p> <ol style="list-style-type: none"> <li>1. Basic diagnostic microbiology and immunology, collection and handling of sample and culture techniques.</li> <li>2. Introduction to genetics, bioinformatics.</li> <li>3. Basic understanding of cell biology and immunological diseases.</li> </ol> <p><b>Clinical work</b></p> <ol style="list-style-type: none"> <li>1. Applied periodontal indices 10 cases</li> <li>2. Scaling and root planning: - with Proper written history</li> </ol> <p><b>a. Manual 20 Cases</b></p> <p><b>b. Ultrasonic 20 Cases</b></p> <ol style="list-style-type: none"> <li>3. Observation / assessment of all periodontal procedures including implants</li> </ol>

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2.	Module 1 (Second Year)	<ol style="list-style-type: none"> <li>1. Interpretation of various bio-chemical investigations.</li> <li>2. Practical training and handling medical emergencies and basic life support devices.</li> <li>3. Basic biostatistics – Surveying and data analysis.</li> </ol> <p><b>Clinical</b></p> <ol style="list-style-type: none"> <li>1. Case history and treatment planning 10 cases</li> <li>2. Root planning 50 cases</li> <li>3. Observation / assessment of all periodontal procedures including implant.</li> <li>4. Selection of topic for Library dissertation and submission of Dissertation Synopsis</li> </ol>
3.	Module 3 (First Year)	<p>Minor surgical cases 20 cases</p> <ol style="list-style-type: none"> <li>(i) Gingival Depigmentation 3 Cases</li> <li>(ii) Gingival Curettage no limits</li> <li>(iii) ENAP 1 Case</li> <li>(iv) Gingivectomy/ Gingivoplasty 5 cases</li> <li>(v) Operculectomy 3 cases</li> </ol> <p>Poster Presentation at the Specialty conference</p>
4.	Module 4 (First Year)	<p><b>Clinical work</b></p> <ol style="list-style-type: none"> <li>1. Case history and treatment planning 10 cases</li> <li>2. Occlusal adjustments 10 cases</li> <li>3. Perio splints 10 cases</li> <li>4. Local drug delivery techniques 5 cases</li> <li>5. Screening cases for dissertation</li> </ol>
5.	Module 5 (First Year)	<ol style="list-style-type: none"> <li>1. Periodontal surgical procedures. <ol style="list-style-type: none"> <li>a. Basic flap procedures 20 cases</li> </ol> </li> <li>2. Periodontal plastic and esthetic 10 cases <ol style="list-style-type: none"> <li>a. Increasing width of attached gingival 5 cases</li> <li>b. Root coverage procedures / Papilla Preservation and Reconstruction 5 cases</li> <li>c. Crown lengthening procedures 5 cases</li> <li>d. Frenectomy 5 cases</li> <li>e. Vestibuloplasty 5 cases</li> </ol> </li> <li>3. Furcation treatment (Hemisection, Rootsection, Tunelling) 5 cases</li> <li>4. Surgical closure of diastema. 2 cases</li> </ol>

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6.	Module 6 (First Year)	1. Ridge augmentation procedures 5 cases 2. Implants Placements and monitoring 5 cases 3. Sinus lift procedures 2 cases 4. Case selection, preparation and investigation of implants. 5. Interdisciplinary Periodontics 2 each (i) Ortho - Perio (ii) Endo - Perio (iii) Restorative Perio (iv) Periprosthentic (v) Crown Prep 6. Osseous Surgery 2 each (i) Resective (ii) Regenerative 7. Scientific paper/ poster presentation at the conference.
7.	Module 7 (First Year)	Clinical work 1. Flap surgeries & regenerative techniques 25 cases (Using various grafts & barrier membranes) 2. Assistance / observation of advanced surgical procedure 5 each 3. Micro Surgery 5 each 4. Record maintenance & follow-up of all treated cases including implants. 5. Submission of dissertation - 6 months before completion of III year. 6. Scientific paper presentation at conferences.
8	Module 8 (First Year)	1. Refining of surgical skills. 2. Publication of an article in a scientific journal. 3. Preparation for final exams.
9	Module 9 (First Year)	1. Preparation for final exams. 2. University exam

**Assessment Examination:**

In addition to regular evaluation, log book etc., Assessment examination should be conducted after every 3 modules & progress of the student monitored.

**Monitoring Learning Progress:**

It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring is to be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects.

  
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**Prosthodontic**

Postgraduate knowledge-based competencies

**i. Seminars**



**ii. Journal clubs**



  
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### **iii. Undergraduate Case based competencies**



**Knowledge is assessed as follows**

1. Assessment in the form of evaluation sheets by the teachers
2. Assessment in the form of evaluation sheets by the peers

### **Undergraduate Preclinical competencies**

#### **Spotters: Dental Materials**







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### **Undergraduate Dental Materials competencies**



### **Undergraduate preclinical competencies**







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### **Undergraduate Clinical competencies**



### **Postgraduate pre-clinical competencies**



### **Postgraduate Clinical skill competencies**



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**Postgraduate Clinical skill competencies**







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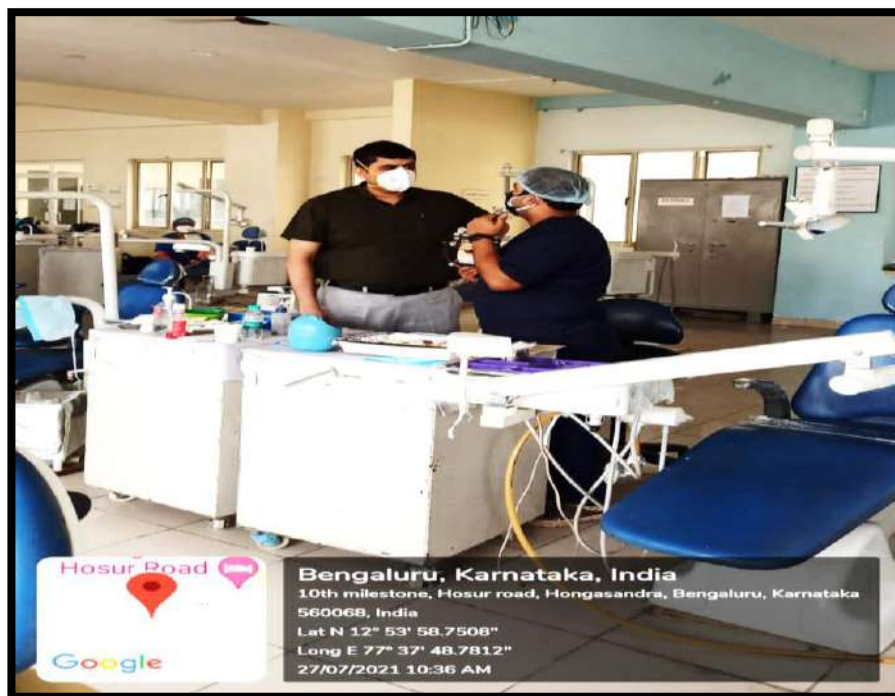
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**Postgraduate Clinical skill competencies**



**Postgraduate Problem-based competencies**



**Postgraduate competencies in Technology**





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**Orthodontics & Dentofacial Orthopedics**

Practical's/Clinics: 170 Hours

III Year: 70 Hours

IV Year: 100 Hours

**Practicals / Clinics**

1. Student is trained to arrive at proper diagnosis by following a scientific and systematic procedure of history taking and examination of malocclusion in the orofacial region.
2. Training is also imparted in management of malocclusion whenever possible.
3. In view of the above, each student shall maintain a record of work done, which shall be evaluated for marks at the time of university examination.

**Clinical exercises (III Year) – 70 hours**

1. Making upper Alginate impression
2. Making lower Alginate impression
3. Study model preparation
4. Model Analysis
  - a. Pont's Analysis
  - b. Ashley Howe's Analysis
  - c. Carey's Analysis
  - d. Bolton's Analysis
  - e. Moyer's Mixed Dentition analysis
  - f. Huckhaba's Analysis

**Clinical exercises (IV Year) – 100 hours**

1. Case History Training
2. Case Discussion
3. Discussion on the given topic
4. Cephalometric tracings
  - a. Down's Analysis
  - b. Steiner's Analysis
  - c. Tweed's Analysis

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**Pediatric and Preventive Dentistry**

Practical's/Clinics: 170 Hours

III Year: 70 Hours

IV Year: 100 Hours

**Practical's / Clinics**

1. Student is trained to arrive at proper diagnosis by following a scientific and systematic procedure of history taking and examination of orofacial region.
2. Training is also imparted in management whenever possible.
3. In view of the above, each student shall maintain a record of work done, which shall be evaluated for marks at the time of university examination.

**Pre-clinical (III Year) – 70 hours**

- Drawing of individual primary teeth morphology
- Preparation of various cavity designs on typodont teeth and extracted primary and permanent teeth
- Fabrication of habit breaking appliances

**Clinical exercises (IV Year) – 100 hours**

- Case History Recording and Treatment Planning
- Communication and Management of child patient
- Preventive measures - oral prophylaxis, topical fluoride application
- Restoration of carious teeth using different materials
- Extraction of primary teeth

  
  
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### **Oral Pathology**

#### **List of competencies**

- 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.
- Student should be able to identify the age of patients based by patterns of teeth eruption of different age groups.
- The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
- The students must know the basic knowledge of various research methodologies.
- Student should be able to identify different types of pathological processes, that involve the oral cavity.
- The manifestations of common diseases, their diagnosis & correlation with clinical pathological processes.
- An understanding of the oral manifestations of systemic diseases should help in correlating with the systemic physical signs & laboratory findings.
- The student should understand the underlying biological principles governing treatment of oral diseases.
- Student should have knowledge of the principles of certain basic aspects of Forensic Odontology.
- Develop communication skills specially to interact with peers and patients.
- Develop leadership skills and to work with a team and to get the best out of it.
- Professional honesty and integrity are fostered.

  
  
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**Public Health Dentistry**

**List of competencies**

- 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 environment factors which contribute to health or illness.
- Administer and hygiene instructions, topical fluoride therapy and fissure sealing.
- Educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

  
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