



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


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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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

After completion of the undergraduate program, graduates shall have:

- Scientific foundations on which dentistry is based and a good understanding of various relevant scientific methods, and principles of biological functions and be able to evaluate and analyze various established scientific facts and data.
- Competency in 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.
- Proficiency in case history taking, examination of patients, recording blood pressure, use of different instruments in oral and maxillofacial surgery. Competency in administering various local anesthetic injection techniques on patients.
- Competency in the extraction of mobile, firm teeth and trans alveolar extraction of root stumps.
- Capability to manage dentoalveolar fractures with arch bar fixation, eyelets and intermaxillary fixations.
- Knowledge in basic life support skills.
- Greater capability to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of society to receive the best possible treatment.
- High standards of professional ethics and conduct and apply these in all aspects of professional life.
- Enormous awareness and provide possible solutions oral surgery related problems and needs of community at large.
- Willingness to take part in CDE to update knowledge and hone their professional skills.
- Willingness to participate in implementation of national oral surgery programmes.



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DEPARTMENT OF CONSERVATIVE DENTISTRY AND 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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DEPARTMENT OF PERIODONTICS

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

Periodontology

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

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



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- 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
- Principals of Surgery and Medical Emergencies,
- To sensitive students about inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.

B. 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.
- Management of periodontal-systemic interrelationship, when appropriate.



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- The use of chemotherapeutic agents as appropriate to reduce, eliminate or change quality of microbial pathogens or to alter host response through local or systemic delivery.
- Respective procedures to reduce or eliminate periodontal pockets and create an acceptable gingival form that facilitates oral hygiene and periodontal maintenance. Soft tissue procedures include gingivectomy, gingivoplasty and various mucogingival flap procedures.

Establishing a diagnosis, prognosis and treatment plan:

The student should be able to develop a logical plan of treatment to eliminate or alleviate the signs and symptoms of periodontal diseases, to arrest or slowdown further disease progression. When indicated, the plan should include-

1. Medical or dental consultation or referral for treatment, when appropriate.
2. Surgical and non-surgical periodontal and implant procedures to be performed.
3. Consideration of adjunctive restorative, prosthetic or orthodontic or endodontic consultation or treatment.
4. Provision for ongoing re-evaluation during periodontal or implant therapy and throughout the maintenance phase of treatment.
5. Consideration of diagnostic testing.
6. Consideration of risk factors but not limited to diabetes and smoking.
7. Periodontal maintenance program including ongoing evaluation and re-evaluation for treatment.

Informed consent and patient records:

The student should be able to obtain an informed consent prior to the commencement of therapy. The student should be able to obtain complete records of the periodontal examination [including full charting], diagnosis, treatment and recommended follow-up.

Attitudinal and Communication skills including Professionalism:

The student should be able to-

1. Establish good rapport with the patient and attenders in explaining various treatment options and instructions to maintain oral health.



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2. To maintain a high standard of professional ethics, empathize with the need of the individual patient and the community and work together to bring about a positive change in society.
3. Develop an attitude to seek lifelong learning to update knowledge and professional skills and participate as a team member, in the implementation of National Health Programs.
4. To develop leadership skills by means of interaction with peers and leaders within and outside the University.

Major Competencies (course outcome)-

- Knowledge and understanding of basic tissues of periodontium, age changes and defense mechanism.
- Knowledge and understanding of diseases of periodontium, etiopathogenesis, risk factors associated with periodontal disease and various diagnostic aids for diagnosis of periodontal disease.
- Knowledge about the treatment plan, various modes of periodontal therapy including laser and implant therapy.
- Should be competent in periodontal charting, interpretation of radiographs and other investigations.
- Should be competent in correct diagnosis, prognosis and framing a comprehensive treatment plan for various periodontal and peri-implant disease.
- Competent in acquiring patient consent and executing nonsurgical periodontal therapy and minor surgical procedures including laser assisted procedures.
- Able to educate patients regarding oral hygiene maintenance and successful follow up to maintain and improve periodontal health.
- Consolidate all above mentioned major competencies acquired during the course and integrate newer evidence based knowledge to display expertise in the science of Periodontology.
- Ability to critically appraise their own performance across multiple formative assessments completed during the course.

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. This may be structured and assessment be done using checklists that assess various aspects.



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DEPARTMENT OF PROSTHODONTICS AND CROWN AND BRIDGE

III YEAR CLINICAL EXERCISE

- Making of alginate impression of maxillary arch.
- Making of alginate impression of mandibular arch.
- Pouring of impression taken by using dental stone.
- Study the model prepared.
- Making of self-cure denture base of impression taken.
- Arranging of teeth and try in.
- Dewaxing waxing and packing using head cure denture base.
- Insertion of denture.

IV YEAR CLINICAL EXERCISE

- Taking of impression using impression compound of maxillary and mandibular archs.
- Pouring of primary cast using plaster of Paris.
- Making of special tray using tray material.
- Border moulding is done using green stick compound.
- And secondary impression is made using zinc oxide eugenol.
- Pouring secondary cast using dental stone.
- Denture base and jaw relation
- Arranging teeth and try in.
- Insertion of denture



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DEPARTMENT OF ORTHODONTICS

Practicals/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. Training is also imparted in management of malocclusion whenever possible.
2. 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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DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY

Practical's/Clinics:170rs 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 various teeth using different materials
- Extraction of primary teeth



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ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY

- 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 on 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 the treatment of oral diseases.
- Student should have knowledge of the principles of certain basic aspects of Forensic Odontology.
 - Interns during their posting perform history recording and clinical examination of patients, they are also taught with laboratory techniques like Blood, Urine, and Sputum examination, Exfoliative cytology which prepares them to clinical practice.
- Develop communication skills especially 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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DEPARTMENT OF PUBLIC HEALTH DENTISTRY

- 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.

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