LIST OF COMPETENCIES

DENTAL COUNCIL OF INDIA

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BDS COURSE REGULATIONS 2007



DENTAL COUNCIL OF INDIA

Temple Lane, Kotla Road New

Delhi – 110 002

KARPAGA VINAY-GARISTITUTE OF DENIAL SCIENCES G.S.T. Road, Chinna Kolambakkam, Palayanoor Post, Madhuranthagam Taluk, Chengalpattu District-603 308, 3. Should be holding the post of a Reader or above in a Dental Institution approved/recognized by the DentalCouncil of India for B.D.S.

Note:

- In case of Public Health Dentistry, as there is acute shortage of teachers one examiner from Public Health Dentistry and the second one could be from Periodontics. To be reviewed after
- In case of Physiology and Biochemistry if Internal examiner is from Physiology, 2.

External examiner should be from Biochemistry orwise versa

- Incase of Pathology and Microbiology if Internal is examiner is from Pathology, External 3. examiner should be from Microbiology or wiseversa
- In case of Dental Materials, if internal is from Prosthodontics, external should be 4. from Conservative Dentistry and wiseversa

50% of Examiners appointed shall be external from Dental Institutions approved/recognised by the Dental Council of India for B.D.S. Course, from other University, preferably from outside the State.

Reciprocal arrangement of Examiners should be discouraged, in that, the Internal Examiner in a subject should not accept external examinership for a College from which External Examiner is appointed in his subject for the corresponding period.

No person shall be an external Examiner to the same University for more than 3 consecutive years. However, if there is a break of one year the person can be re-appointed.

"Minimum Physical Requirement and Minimum Staffing Pattern (as per DCI Regulations 2006)."

GOALS AND OBJECTIVES

The dental graduates during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate also should understand the oral health education and be able to participate in the rural health care concept of community delivery programmes existing in thecountry.

The objectives are dealt under three headings (a) Knowledge and understanding (b) skills and (c) Attitudes.

(A) KNOWLEDGE ANDUNDERSTANDING:

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

- Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyses cientifically various established facts and data.
- Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general 2. state of health and also bearing on physical and social well being of the patient.
- Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and 3. therapeutic aspects ofdentistry.

Adequate clinical experience required for generaldental practice.

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 5. state of healthinsofarasitaffectdentistry.

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

- Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available whereverpossible
- Acquire the skill to prevent and manage complications if encountered while carrying out 2. various surgical and otherprocedures.
- Possess skill to carry out certain investigative procedures and ability to interpret laboratory 3.

KARPAGA VINATAGA INSTITUTE OF THE THE STATE OF THE CARPAGA VINATAGA INSTITUTE OF THE STATE OF TH Palayanoor Post, Madhuranthagam Taluk, Chengalpattu District-603 308. $limitations \ on \ graduation, \ need \ to \ refer \ patients \ for \ consultant \ opinion \ and/or \ treatment \ and \ also the need for postgraduate and continuous education programmes.$

In Orthodontics & Dento Facial Orthopedics, students should carry out simple appliance therapy for patients. Students should also be able to appreciate the role of dentofacial growth in the development and treatment ofmalocclusion.

In Paediatric dentistry, the students should concentrate on clinical management, efficacy of preventive measures, treatment needs particularly for children with disabilities. In oral medicine and oral diagnosis, the student should receive instruction in various lesions, occurring in the oral cavity with particular referenceto oral cancer.

- 9. The successful control and management of pain is an integral part of dental practice. Upon graduation the students should be competent to administer all forms of local anaesthesia. The value of behavioural methods of anxiety management should be emphasised. The students should also have the practical experience in the administration of intra-muscular and intravenous injections. Knowledge of pain mechanisms and strategies to control post-operative pain is essential for practice ofdentistry.
- 10. All students should receive instructions and gain practical experience in taking processing and interpretation of various types of intra and extra oral radiographs. They should be aware of the hazards of radiation and proper protective measures from radiation for the patient, operator and otherstaff
- Instruction should be given in dental jurisprudence, legal and ethical obligations of dental practitioners and the constitution and functions of Dental Council ofIndia.
- 12. Infection and cross infection control assume significance in dental practice. The students should be made aware of the potential risk of transmission in the dental surgery, various infectious diseases particularly HIV and hepatitis. The students should be aware of their professional responsibility for the protection of the patients, themselves and their staff and the requirements of the health and safetyregulations.
- 13. In the recent times, the subjects of esthetic dentistry, oral implantology, behavioural sciences and forensic odontology have assumed great significance. Hence, the Council recommends that these four specialities should be incorporated into the undergraduate curriculum. The instruction and clinical training in aesthetic dentistry shall be carried out by the departments of Conservative, Endodontics & Aesthetic Dentistry and prosthodontics, Crown Bridge, Aesthetic Dentistry and Oral Implantology. Similarly, the instruction and clinical training in oral implantology shall be done by the departments of Oral & Maxillofacial Surgery, Prosthodontics, Crown Bridge, Aesthetic Dentistry and Oral Implantology and Periodontology and Oral Implantology. The instruction in behavioural sciences should ideally commence before the students come in contact with the patients and shall be carried out by the departments of Public Health Dentistry & Preventive Dentistry and Pedodontics & Preventive Dentistry. Forensic Odontology will be a part of Oral Pathology & Oral Microbiology and Oral Medicine and Radiology.

COMPETENCIES

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 professionalbodies
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 sates programs

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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

De

ntal treatment

Perform basic cardiac life support Management of pain including post operative Administration of all forms of localanaesthesia

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	MEDIC	INE &	RAD	IOLOGY
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П	concerned speciality for theirmanagement				
	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 medicalspecialist.				
	Haveadequateknowledgeaboutradiationhealthhazards,radiationssafetyandprotection.				
	Competenttotakeintra-oralradiographsandinterprettheradiographicfindings				
	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 tolaw				
PAEDIA	ATRIC & PREVENTIVE DENTISTRY				
	Able to instill a positive attitude and behaviour in children towards oral health and understand theprinciplesofpreventionandpreventivedentistryrightfrombirthtoadolescence.				
	Able to guide and counsel the parents in regards to various treatment modalities including different facets of preventivedentistry.				
	Abletotreatdentaldiseasesoccurringinchildpatient,				
П	Able to manage the physically and mentally challenged disabled children exectively				

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manage lacions of the arel cavity and refer to the

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	and efficiently, tailored to the needs of individual requirement and conditions.
ORTHO	Understandaboutnormalgrowthanddevelopmentoffacialskeletonanddentition. Pinpointoberrationsingrowthprocessbothdentalandskeletalandplannecessarytreatment Diagnose the various malocclusionategories Abletomotivateandexplaintothepatient(andparent)aboutthenecessityoftreatment Planandexecutepreventive or the about the process of the process
	Managetreatmentofsimplemale admit the distribution (nabit breaking appliances)
	Handle delivery and activation of removable orthodonticappliances Diagnoseandappropriatelyreferpatientswithcomplexmalocclusiontothespecialist
PERIO	DONTOLOGY
	Diagnose the patients periodontal problem, plan and perform appropriate periodontal treatment Competent to educate and motivate the patient Competent to perform thorough oral prophylavis, subgingival scaling, root planning and
	minor periodontal surgicalprocedures Giveproperposttreatmentinstructionsanddoperiodicrecallandevaluation Familiarwithconceptsofosseointegrationandbasicsurgicalaspectsofimplantology
DDOC	
D	THODONTICS AND CROWN & BRIDGE Able to understand and use variousdental materials
ō	Competent to carry out treatment of conventional complete and partial removable dentures and fabricate fixed partialdentures
	Abletocarryouttreatmentofroutineprosthodonticprocedures.
	Familiar with the concept of osseointegration and the value of implant-supported Prosthodontic procedures
CONS	ERVATIVE DENTISTRY AND ENDODONTICS
	Competent to diagnose all cariouslesions
	CompetenttoperformClassIandClassIIcavities and their restoration with a malgam
	RestoreclassVandClassIIIcavitieswithglassionomercement Abletodiagnoseandappropriatelytreatpulpallyinvolvedteeth(pulpcappingprocedures)
	AbletoperformRCTforanteriorteeth
	Competent to carry out small compositerestorations
	Understand the principles of aesthetic dentalprocedures
ODAI	& MAXILLOFACIAL SURGERY
ORAL	Able to apply the knowledge gained in the basic medical and clinical subjects in the
-	management of patients with surgical problems
	Abletodiagnose, manageand treat patients with basic or alsurgical problems
	Haveabroadknowledgeofmaxillofacialsurgeryandoralimplantology Should be familiar with legal, ethical and moral issues pertaining to the patient care and
	Should be familiar with legal, ethical and moral issues pertaining to the patient care and communicationskills
	Should have acquired the skill to examine any patient with an oral surgical problem in an
	The department of the departme
	cl labeacompetent in the extraction of the teeth under both local and general an aesthesia
	Competent to carry out certain minor oral surgical procedure under LA liketrans-alveolar extraction, frenectomy, dento alveolar procedures, simple impaction, biopsy, etc.
	Competent to assess, prevent and manage common complications that arise during and after
	t an analourgary
	111 to an anidon rimary careand managemedical emergencies introde maiorite
	Familiar with the management of major oral surgical problems and principles involved in the in- patientmanagement
DUDI	TO USALTH DENTISTRY
П	t the principles of health promotion and disease prevention
	Have knowledge of the organization and provision of health care in community and in
	HaveknowledgeoftheprevalenceofcommondentalconditionsinIndia.
	Have knowledge of community based preventivemeasures Haveknowledgeofthesocial, cultural and env. Factors which contribute to health or illness.
	Administer and hygieneinstructions, topical fluoride the rapy and fissures ealing.
	Educate nationts concerning the actiology and prevention of oral disease and encourage them
П	to assure responsibility for their oralhealth.
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