

# DENTAL COUNCIL OF INDIA

## REVISED BDS COURSE REGULATIONS, 2007

(As Modified upto 10th September 2007)



BY AUTHORITY

*Girish Katti*  
Dr. GIRISH KATTI M.D.S.  
PRINCIPAL  
NAVODAYA DENTAL COLLEGE  
RAICHUR-584 103.  
Published by :  
**DENTAL COUNCIL OF INDIA**  
NEW DELHI

Price : Rs. 1000/-

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 safety regulations.
13. In recent times, the subjects of aesthetic 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 Paedodontics & 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
- Analyse 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 specialised 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
- Ability to order appropriate investigations

Dr. GIRISH KATTI M.D.S.  
PRINCIPAL

NAVODAYA DENTAL COLLEGE  
RAICHUR-584 103.

**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 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 systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- Have adequate knowledge about radiation health hazards, radiation 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

**PAEDIATRIC & PREVENTIVE DENTISTRY**

- Able to instill a positive attitude and behaviour in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.
- Able to guide and counsel the guardian/parents with regard to various treatment modalities including different facets of preventive dentistry.
- Able to treat dental diseases occurring in the child patient.
- Able to manage t physically and mentally challenged/disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

**ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS**

- Understand about normal growth and development of facial skeleton and dentition.
- Pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment
- Diagnose the various categories of malocclusion
- Able to motivate and explain to the patient (and parent or guardian) about the necessity of treatment
- Plan and execute preventive orthodontics (space maintainers or space regainers)
- Plan and execute interceptive orthodontics (habit breaking appliances)
- Manage treatment of simple malocclusion such as anterior spacing using removable appliances
- Handle delivery and activation of removable orthodontic appliances

**DR. GRISH KATTI** M.D.S.  
 PRINCIPAL  
 NAVODAYA DENTAL COLLEGE  
 RAICHUR-584 103.

- Diagnose and appropriately refer patients with complex malocclusion to the specialist

#### **PERIODONTOLOGY**

- Diagnose the patients 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

#### **PROSTHODONTICS AND CROWN & BRIDGE**

- Able to understand and use various dental materials
- Competent to carry out treatment of conventional complete and partial removable dentures and fabricate fixed partial dentures
- Able to carry out treatment of routine prosthodontic procedures.
- Familiar with the concept of osseointegration and the value of implant-supported Prosthodontic procedures

#### **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

#### **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 sterilisation
- Should be competent in the extraction of the teeth under both local and general anaesthesia
- 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 in-patient management

#### **PUBLIC HEALTH DENTISTRY**

- Apply the principles of health promotion and disease prevention
- Have knowledge of the organisation 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 environmental factors which contribute to health or illness.
- Administer oral hygiene instructions, topical fluoride therapy and fissure sealing.
- Educate patients about the aetiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

Dr. GIRISH KATTI M.D.S.

PRINCIPAL

NAVODAYA DENTAL COLLEGE

RAICHUR-584 103.

## Subjects and Hours of Instruction for BDS Course

Sl. No	Subjects	Lecture hours	Practical hours	Clinical hours	Total hours
1	General Anatomy	100	175		275
2	Human Physiology & Biochemistry	120 +70	60 +60		180 +130
3	D A D H	105	250		355
4	General pharmacology	70	20		90
5	General Pathology & Microbiology	55+65	55+50		110+115
6	Dental materials	80	240		320
7	General medicine	60		90	150
8	General surgery	60		90	150
9	Oral pathology	145	130		275
10	Oral medicine & Radiology	65		200	265
11	Orthodontics	50		200	250
12	Pedodontics	65		200	265
13	Community dentistry	60		290	350
14	Prosthodontics	135	300	460	895
15	Conservative dentistry	135	200	460	795
16	Oral & maxillofacial surgery	70		360	430
17	Periodontia	80		200	280
<b>TOTAL</b>		<b>1590</b>	<b>1540</b>	<b>2550</b>	<b>5680</b>

*Sandhya*

**PRINCIPAL**  
Navodaya Dental College.  
RAICHUR

## Examination details

Following is the table showing the subjects in which exams are held in respective years

Sl. No	YEAR	EXAM SUBJECTS [ year wise]
1	BDS 1 <sup>st</sup> YEAR	GENERAL ANATOMY & HISTOLOGY HUMAN PHYSIOLOGY & BIOCHEMISTRY DENTAL ANATOMY & ORAL HISTOLOGY
2	BDS 2 <sup>nd</sup> YEAR	GENERAL PATHOLOGY & MICROBIOLOGY GENERAL PHARMACOLOGY DENTAL MATERIALS PRECLINICAL PROSTHODONTICS PRECLINICAL CONSERVATIVE DENTISTRY
3	BDS 3 <sup>rd</sup> YEAR	GENERAL MEDICINE GENERAL SURGERY ORAL PATHOLOGY & MICROBIOLOGY
4	BDS 4 <sup>th</sup> YEAR	ORAL MEDICINE & RADIOLOGY ORTHODONTIA PERIODONTIA PEDODONTIA PROSTHODONTICS CONSERVATIVE DENTISTRY PUBLIC HEALTH DENTISTRY ORAL AND MAXILLOFACIAL SURGERY

### Schedule of Examination

The University shall conduct two examinations annually at an interval of not less than four to six months as notified by the University from time to time. A candidate who satisfies the requirement of attendance, progress, and conduct as stipulated by the university shall be eligible to appear in the University examination. Certificate to the above effect should be produced from the Head of the Institution along with the application for examination and the prescribed fee.

## Distribution of Marks

### Types of questions and distribution of marks

Each question paper shall be of 3 hours duration, carrying maximum marks of 70. There shall be three types of questions with distribution of marks as shown in the table below.

**Note:** In case of Physiology & Biochemistry and Pathology & Microbiology The distribution of marks and types of questions will be as follows:

Type of question	no of questions	Marks per question	Total marks
Long Essay Type	2	10	20
Short Essay Type	8	5	40
Short Answer Type	5	2	10
		<b>Grand total</b>	<b>70</b>

1. In the subject of General Human Physiology and Biochemistry, Section 'A' (Gen. Physiology) shall contain one Long essay type question carrying 10 marks and second question containing three short Essay type questions carrying five marks each, third question containing five Short Answer questions carrying two marks each. Section 'B' (Biochemistry) shall contain one Long essay type question of 10 marks and second question containing three short Essay type questions of five marks each, third question containing five Short Answer type questions carrying two marks each..
2. In the subject of Gen. Pathology, Section 'A' (Gen. Pathology) shall contain one Long essay type question carrying 10 marks and second question shall contain three Short Essay type question carrying five marks each, third question containing five Short Answer questions of two marks each.

Section 'B' (Microbiology) shall contain one Long essay type question carrying 10 marks and second question shall contain three Short essay type questions carrying five marks each, third question containing five short answer questions of two marks each.



## Distribution of Marks In University Exams

subjects	THEORY				PRACTICAL			Grand Total
	University	Viva	I A	Total	University	Viva	Total	
General anatomy	70	20	10	100	90	10	100	200
Physiology/ biochemistry	35/35	10/10	5/5	50/50	45/45	5/5	50/50	200
DADH	70	20	10	100	90	10	100	200
Pathology/microbiology	35/35	10/10	5/5	50/50	45/45	5/5	50/50	200
Pharmacology	70	20	10	100	90	10	100	200
Dental Materials	70	20	10	100	90	10	100	200
Preclinical Prostho*	–	20	–	20	60	10	80	100
Preclinical Conservative*	–	20	–	20	60	10	80	100
*no theory paper Practical/viva only								
General Medicine	70	20	10	100	90	10	100	200
General Surgery	70	20	10	100	90	10	100	200
Oral Pathology	70	20	10	100	90	10	100	200
Periodontia	70	20	10	100	90	10	100	200
Oral Medicine & Radiology	70	20	10	100	90	10	100	200
Orthodontics	70	20	10	100	90	10	100	200
Pedodontics	70	20	10	100	90	10	100	200
Prosthodontia	70	20	10	100	90	10	100	200
Conservative Dentistry	70	20	10	100	90	10	100	200
Oral Surgery	70	20	10	100	90	10	100	200
Community Dentistry	70	20	10	100	90	10	100	200