

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**  
Delhi- Meerut Road, Murad Nagar, Ghaziabad – 201206

**DEPARTMENT OF PERIODONTOLOGY & ORAL IMPLANTOLOGY**

## INSTRUCTIONS TO P.G. STUDENTS

1. They should possess all the required armamentarium necessary for “BASIC EXERCISES” as they enter the department.
2. The time given for the basic exercises should be strictly adhered to, failing which bad remarks shall be entered in their personal files.
3. Time allotted for completion of all Pre-Clinical exercises is 3 months.
4. The students should submit in detail all the seminars to the department as part of learning resource materials.
5. Written tests will be conducted at regular intervals.
6. No leave shall be taken without the permission of the postgraduate guide/HOD.
7. Students will be allowed to start clinical work only after completion of basic exercises.
8. Students not progressing as per schedule will have to meet the HOD regarding permission to continue.
9. Student shall not use “departmental instruments”.
10. Students should attend clinics as per schedule.
11. The topic for the final dissertation has to be selected and finalized within 6 months after commencement of the course and the completed final dissertation should be submitted 6 months before the final MDS examination.
12. Seminars & Journal Clubs shall be conducted according to the prescribed time table. Seminar & Journal Club topics shall be displayed in advance on the department notice board. The seminars should be duly typed and its copies submitted to all the staff members & PG’s of the Department. Also the seminar should be approved one week before the actual presentation from respective staff member.
13. Learning in postgraduate Programme shall be essentially autonomous and self directed.

## GOALS & OBJECTIVES OF THE CURRICULUM

### Goals:

The goal of postgraduate training in Periodontics is to train BDS graduate who will –

- Practice respective speciality efficiently and effectively, backed by scientific knowledge and skill
- Exercise empathy and a caring attitude and maintain high ethical standards.
- Continue to evince keen interest in continuing professional education in the speciality and allied specialities irrespective of whether in teaching or practice
- Willing to share the knowledge & skills with any learner, junior or a colleague.
- To develop the faculty for critical analysis and evaluation of various concepts and views, to adopt the most rational approach.

### Objective:

- The objective is to train a candidate so as to ensure higher competence in both general and special area of interest and prepare him for a career in teaching, research and specialty practice.
- A candidate must achieve a high degree of clinical proficiency in the subject matter and develop competence in research and its methodology as related to the field concerned.

The above objectives are to be achieved by the time the candidate completes the course.

The objective may be considered as under –

1. Knowledge (Cognitive domain)
2. Skills (Psycho motor domain)
3. Human values, ethical practice and communication abilities

### Knowledge :

- Demonstrate understanding of basic sciences relevant to Periodontology.
- Describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children.
- Identify social, economic, environmental and emotional determinants in a given case and take them into account for planning treatment.
- Recognize conditions that may be outside the area of speciality/competence, refer them to an appropriate specialist.
- Update knowledge by self study and by attending courses, conferences, seminars relevant to speciality.
- Undertake audit; use information technology and carryout research both basic and clinical with the aim of publishing or presenting the work at various scientific gatherings.

### Skills:

- To obtain proper clinical history with methodical examination of the patient, perform essential diagnostic procedures and relevant laboratory tests so as to arrive at a reasonable diagnosis about the surgical condition. To perform with competence minor & major oral surgical procedures.
- Capable of providing care for maxillofacial surgery patients.

### Attitudes:

- Develop attitude to adopt ethical principles in all aspects of surgical practice. Professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status caste, creed or religion of the patient.
- Willing to share the knowledge and clinical experience with professional colleagues.
- Willing to adopt new methods and techniques of surgical management developed from time to time based on scientific research, which are in the best interest of the patient.
- Respect patient's rights and privileges, including patients right to information and right to seek a second opinion.
- Develop attitude to seek opinion from allied medical and dental specialists as and when required.

### Communication Skills:

- Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time.
- Develop the ability of communicate with professional colleagues.
- Develop ability to teach undergraduates.

### **Postgraduate Course in Periodontology**

The course shall comprise of a minimum of three years during which the student will be deemed to have acquired.

- (A) An updated knowledge of Periodontology, Periodontal pathology, diagnosis, treatment, surgical Periodontology, Implantology, endodontic and prosthodontic implications, TMJ & Occlusion.
- (B) Competence at running independently Periodontal service and Implantology
- (C) Working knowledge of some of the important instruments, equipment in the scientific investigation of Periodontal Pathology, Periodontic rehabilitation including masticatory apparatus and Cranofacial anomalies.
- (D) Familiarity with the modern methods and assessment strategies for teaching of undergraduate students.
- (E) Clinical training in major disciplines including implantology
- (F) The student shall be rotated for training in different section i.e. Radiodiagnosis (roentgeno-cephalometric, panoramic) Oral Pathology, Endodontics and Prosthodontic rehabilitation.
- (G) Student shall write at least two papers, library dissertation and a dissertation/thesis on a research project under the preceptorship of the guide.

## METHOD OF CONDUCTING TEACHING

The course shall be given in the following forms:

1. Didactic lectures, seminars, demonstrations & Journal Clubs thrice a week.
2. The lecture will be so arranged that the student will rotate without difficulty. A good number of lectures / demonstrations will be necessary in order to cover the entire field of dentistry and its subspeciality of Periodontology.
3. There will be Journal club once a week. Each student will be assigned a journal of Periodontology. The journal of clinical Periodontology or of allied sciences to review the most important articles that have appeared in the journals irrespective of topic to be given for practice to the student in comprehension and presentation of the data and his own views before a group.
4. Clinical case conference once a week – the student will present all data including case records, models, radiographs and photographs.
5. The students will work on patients in the clinics, both in mornings and in the afternoons under the supervision of the teachers.
6. Lectures in basic sciences –attendance at this course given by the basic science disciplines will be compulsory. This is usually given once every year and attendance at these courses will be essential.
7. Concurrent clinical training – each student will be required to undergo compulsory concurrent clinical training for this purpose in Plastic surgery, Oral Pathology and Radio diagnosis.
8. Training in methodology of teaching – the postgraduate will attend the undergraduate classes to learn the methodology of teaching and they will be encouraged to teach the undergraduate students after preparing lectures and getting it corrected by faculty member under whom he will work.
9. The candidate will get training in various aspects of Periodontics during the three years in the clinics and discussion clubs.
10. Internal assessment examination will be conducted every 6 months.

All the students of the speciality departments shall complete the **minimum quota** (as per DCI regulations 2017) for the teaching and learning activities, as follows:—

(a) Journal Clubs	5 in a year
(b) Seminars	5 in a year
(c) Clinical Case Presentations	5 in a year
(d) Lectures taken for undergraduates	1 in a year
(e) Scientific Paper / Poster Presentations In State / National Level Conferences	4 papers/posters during three years of training workshop period
(f) Clinico- Pathological Conferences	2 presentations during three years of training period
(g) Scientific Publications	one publication in any indexed scientific journal
(h) Submission of Synopsis	one synopsis within six months from the date of commencement of the course
(i) Submission of Dissertation months	one dissertation within six before appearing for the university examination
(j) Submission of Library Dissertation	one dissertation within eighteen months from the date of commencement of the course

## SYLLABUS OF COURSE IN PERIODONTOLOGY

1.       **The Normal Periodontium**
  - The Gingiva
  - The tooth – Supporting structures
  - Aging and the Periodontium
  
2.       **Classification and Epidemiology of Periodontal Diseases**
  - Classification of diseases and conditions affecting Periodontium
  - Epidemiology of Gingival and Periodontal Diseases.
  
3.       **Etiology of Periodontal Diseases**
  - Periodontal Microbiology
  - Immunity and Inflammation: Basic Concepts
  - Microbial interactions of the host – microbe interaction in Periodontal Disease: selected Topics
  - Genetic Factors Associated with Periodontal Disease
  - The Role of Dental calculus & other Predisposing factors
  - Influence of systemic disease and disorders on the periodontium.
  - Periodontal Medicine
  - Smoking and Periodontal Disease
  
4.       **Periodontal Pathology**
  - Gingival Disease
  - Defense Mechanisms of the Gingiva
  - Gingival Inflammation
  - Clinical Features of Gingivitis
  - Gingival Enlargement
  - Acute Gingival infections
  - Gingival disease in childhood
  - Desquamative Gingivitis
  
5.       **Periodontal Disease**
  - The Periodontal pocket
  - Bone loss and patterns of bone destruction
  - Periodontal Response to External Forces
  - Masticatory System Disorders
  - Chronic Periodontitis
  - Necrotizing Ulcerative Periodontitis, Refractory Periodontitis, and Periodontitis as a Manifestation of Systemic Diseases
  - Aggressive Periodontitis
  - AIDS & The Periodontium



## 6. Treatment of Periodontal Disease

- Diagnosis, Prognosis and Treatment Plan
- Clinical Diagnosis
- Radiographic Aids in the diagnosis of Periodontal Disease
- Risk Assessment
- Determination of Prognosis
- Advanced Diagnostic Techniques
- The Treatment Plan
- Rationale for Periodontal Treatment
- Periodontal Therapy in the female patient (Puberty, Menses, Pregnancy & Menopause)
- Periodontal Treatment of Medically compromised Patients
- Periodontal Treatment for older Adults
- Treatment of Refractory Periodontitis, aggressive Periodontitis, Necrotizing Ulcerative Periodontitis and Periodontitis Associated with Systemic diseases

## 7. Periodontal Instrumentation

- The Periodontal Instrumentarium
- Manual Instrumentation
- Sonic & Ultrasonic Instrumentation
- Supragingival and subgingival Irrigation

## 8. Treatment of Periodontal Emergencies:

- Treatment of Acute Gingival Disease
- Treatment of the Periodontal Abscess

## 9. Phase I Periodontal Therapy

- Scaling & Root Planning
- Phase I Periodontal Therapy
- Plaque control for the Periodontal patient
- Chemotherapeutic agents in the treatment of Periodontal disease
- Periodontal Management of HIV infected patients
- Occlusal Evaluation and therapy in the Management of Periodontal Disease
- The Role of Orthodontics as an Adjunct to the Periodontal Therapy

## 10. Periodontal Surgical Phase

- The surgical phase of Therapy
- General Principles of Periodontal Surgery
- Surgical Anatomy of the Periodontium & Related Structures
- Gingival Curettage
- The Gingivectomy Technique
- Treatment of Gingival Enlargement

- The Periodontal Flap.
- The Flap Technique for pocket Therapy
- Resective Osseous Surgery
- Regenerative Osseous Surgery
- Furcation: The problem & its management
- The Periodontic- Endodontic Continuum
- Periodontal Plastic & Esthetic Surgery
- Recent Advances in surgical Technology

#### 11. Oral Implantology

- Biologic Aspects of Dental Implants
- Clinical Aspects of Dental Implants
- Surgical Aspects of Dental Implants
- Advanced Implant Surgery and Bone Grafting Techniques
- Prosthetic Aspects of Dental implants
- Diagnosis & Treatment of Periimplant Complications

#### 12. Periodontal – Restorative Interrelationships

- Preparation of the Periodontium for Restorative Dentistry
- Periodontal – Restorative Interrelationships

#### 13. Periodontal Maintenance Phase

- Supportive Periodontal treatment
- Results of Periodontal Treatment
- Internet Resources in Periodontics

## Lecture Topics in Biostatistics & Research Methods

S.No.	Topic
1.	Introduction to Biostatistics
2.	Types of Study designs
3.	Concepts of bias, confounding, interaction and role of chance
4.	Descriptive data analysis methods
5.	Correlation and Agreement analysis methods
6.	Risk analysis methods
7.	Logic of statistical inference
8.	Calculation of adequate sample size for various study designs
9.	Students tests and Analysis of Variance
10.	Chi-square tests
11.	Design and analysis of Clinical Trials
12.	Statistical methods in Biological assays
13.	Statistical aspects of diagnostic tests
14.	Multivariate analysis methods
15.	Non-parametric tests of significance

### Practicals

1.	Practicals in Descriptive Statistical Methods
2.	Practicals in Inference Statistical Methods
3.	Practicals in Clinical Trials and Diagnostic Tests
4.	Practicals in Biological assays
5.	Practicals in Multivariate Methods

## DEPARTMENT OF PERIODONTICS

Instruments to be purchased by the P.G.s for M.D.S (1<sup>st</sup> Year)

1	Needle Holder	
2	B.P. Handle	Straight
3	Stainless Steel Scissors	Straight
4	Stainless Steel Scissors	Curved
5	Castro Viejo Scissors	
6	Universal Scaler	U-15/30
7	Sickle Scaler	S204
8	Supragingival Scalers a. Anterior Jacquette Scaler b. Posterior Jacquette Scaler c. Cumine Scaler d. Surface Scaler	
9	Gracey Gurettes	Set of 7
10	Universal Curette	
11	Periosteal Elevator	24 G
12	Krane Caplan Pocket Marker	1 Set of 2
13	Tissue Forceps	Straight
14	Tissue Forceps	Curved
15	Orbans Knife	
16	Kirkland Knife	
17	UNC 15 Probe	
18	Naber's Probe	
19	Typhodont Teeth Set	

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DEPARTMENT OF PERIODONTOLOGY

Details of Pre-clinical Technique Requirement

1. MODELS:

- (A) Models showing normal gingival
- (B) Models showing periodontal ligament
- (C) Models showing furcation involvement
- (D) Models showing gingival recession
- (E) Models showing gingival enlargement
- (F) Patterns of bone loss on casts.

2. BASIC EXERCISES

- (A) Root Planing on extracted teeth
- (B) Sharpening of instruments.
- (C) Epidemiological indices

3. TREATMENT MODALITIES

(A) Periodonal Splinting

- Ligature wire
- Wire and composite
- Fibre reinforced
- Acrylic
- Metallic

(B) Incisions For Flap Surgeries

- Modified Widman Flap
- Apically displaced Flap
- Undisplaced Flap
- Papilla Preservation Flap
- Gingivectomy

(C) Suturing Techniques

- Independent Direct loop suture
- Independent figure of eight suture
- Continuous sling suture
- Anchor sutures
- Closed Anchor sutures
- Horizontal Mattress suture
- Vertical Mattress suture
- Cross Mattress suture

IV. ROOT CANAL THERAPY & MISCELLANEOUS:

- Access Opening on extracted teeth
- Biomechanical preparation on extracted tooth
- Root Canal obturation on extracted tooth

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## **DEPARTMENT OF PERIODONTOLOGY & ORAL IMPLANTOLOGY**

Details of Patient case requirement for appearing in University Exam

### **Category – A**

#### **PHASE I THERAPY**

1. Scaling and Root Planing (Hand instruments): 15 cases
2. Ultrasonic Scalings: 15 cases
3. Epidemiological Indices- 10 cases
4. Provisional splinting: 10 cases
5. Curettage: 25 cases
6. Case Presentations: 15 (5 per year)

### **Category – B**

#### **MINOR PERIODONTAL PROCEDURES (80 Cases)**

1. Frenectomy / Frenotomy – 10 cases
2. Vestibuloplasty – 10 cases
3. Abscess Drainage- 10 Cases
4. Operculectomy- 10 Cases
5. Crown Lengthening- 10 Cases
6. Gingivectomy – 10 cases with 6 months recall.
7. Depigmentation- 10 Cases
8. Laser Therapy (e.g. Desensitisation etc.)- 10 Cases
9. Others
  - Local Drug Delivery
  - Coronoplasty

### **Category – C**

#### **MAJOR PERIODONTAL PROCEDURES**

1. Flap surgery including osseous surgery – 120 with regular follow ups.
2. Periodontal Plastic Surgical procedures – 30 cases
  - Root coverage procedures
  - Increasing width of attached gingiva
3. Endo – Perio lesions: 3 Cases with regular follow up

### **Category – D**

#### **IMPLANTS & OSSEOUS RECONSTRUCTION/ SITE DEVELOPMENT- 5 Cases**

1. Implant Surgery (Stage 1 and 2)
2. Socket preservation
3. Guided Bone Regeneration

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**List of Books available in Central Library for Department of Periodontics**

<b>PERIODONTICS</b>			
<b>S.No.</b>	<b>Author</b>	<b>Title</b>	<b>Copies</b>
1	Axelsson, Per	Diagnosis and Risk Prediction of Dental Caries Vol.1	1
2	Axelsson, Per	Diagnosis and Risk Prediction of Dental Caries Vol.2	1
3	Axelsson, Per	Preventive Materials Method and Programs	1
4	Bartold, P. Mark	Biology of the Periodontive Tissuses	1
5	Bateman, Geoffrey	Contemporary Periodontal Surgery	1
6	Berkovitz, B.K.B.	Periodontal ligament in Health & Disease	1
7	Berns, Joel M.	Understanding Periodontal Diseases	1
8	Berns, Joel M.	Understanding Impacted Wisdom Teeth	1
9	Bimstein, Enrique; Ed.	Periodontal and Gingival Health and Diseases	2
10	Busscher, H.J.	Oral Biofilms and Plaque Control	1
11	Carranza, Fermin A	Clinical Periodontology 8th Ed.	19
12	Carranza, Fermin A	Clinical Periodontology 9th Ed.	34
13	Carranza, Fermin A	Clinical Periodontology 10th Ed.	12
14	Carranza, Fermin A	Clinical Periodontology for the Dental Hygienist	3
15	Carranza, Fermin A	History of Periodontology	5
16	Chapple, Iain L.C.	Understanding Periodontal Diseases	1
17	Chapple, Iain L.C.	Periodontal Medicine : A Window on the Body	1
18	Clerehugh, Valerie	Periodontal Management of Children	1
19	Cimasoni, G.	Crevicular Fluid Update : Monogram in Oral Science	1
20	Cochran, David L.	Plaque and Calculus Removal : Considerations for the Professional	1
21	Cohen, Edwards	Atlas of Cosmetic & Reconstructive Periodontal Surgery:3/e	1
22	Dibart, Serge	Practical Advance Periodontal Surgery	1
23	Detienville, R	Clinical Success in Management of advance Periodontitis	1
24	Fedi, Peter F	Periodontic Syllabus 3rd Ed.	3
25	Fugazzotto, Paul A.	Preparation of the Periodontium for Restorative Dentistry	1
26	Galgut, Peter N	Periodontics: Current Concepts and Treatment Strategies	1
27	Genco, Robert; Ed.	Contemporary Periodontics 6/e	1
28	Glenwright, H Donald	Self Assesment Picture Tests in Dentistry: Periodontology	2
29	Glick, Michael	Dental Management of Patients with HIV	1
30	Grace, A M	Periodontal Control	2
31	Grant, Daniel A.	Periodontics in the Tradition of Gottlieb and Orban	1
32	Groten, Martin	Clinical Investigations of Medical Devices in Dentistry	1
33	Hall, Walter B	Decision Making Periodontology 3/e	2
34	Hall, Walter B	Critical Decisions in Periodontology 4th ed.	1

35	Haywood, Van B.	Tooth Whitening	1
36	Heasman, Peter	Successful Periodontal Therapy: A Non-Surgical	1
37	Heasman, Peter	Coloured Guide Periodontology	1
38	Jenkins, M M	Guide to Periodontics 3/e	1
39	Jenkins, W.M.M.	Periodontics : A Synopsis	3
40	Jensen, B.G.	Oral Biology	1
41	Korson, David	Inspiration Truly Natural Tooth Restoration	1
42	Kunzel, Walter	Geriatric Dentistry in Eastern European Countries	1
43	Lang, Niklaus P.	Proceeding of the 3rd European Workshop on Periodontology Implant Dent.	2
44	Lang, Niklaus P.	Proceeding of the 2nd Euro. Workshop on Chemicals in Periodontics	1
45	Lang, Niklaus P.	Proceeding of the 1st Euro. Workshop on Periodontology	1
46	Laskaris, Aurelio	Periodontal Manifestations of Local and Systemic Diseases	1
47	Lindhe, Jan; Ed.	Clinical Periodontology and Implant Dentistry 3/e	1
48	Lindhe, Jan; Ed.	Clinical Periodontology and Implant Dentistry 4/e	7
49	Lindhe, Jan; Ed.	Clinical Periodontology and Implant Dentistry, Vol.1; 5/e	3
50	Lindhe, Jan; Ed.	Clinical Periodontology and Implant Dentistry, Vol.2; 5/e	3
51	Lynch, Smuel E	Tissue Engineering	1
52	Manson, J D	Outline of Periodontics 3/e	3
53	Manson, J D	Outline of Periodontics 4/e	7
54	Miserendino, Leo J.	Lasers in Dentistry	1
55	Nabers, Claude L	Periodontal Therapy 1/e	16
56	Newman, Michael G.	Antibiotic and Antimicrobial use in Dental Practice	1
57	Noble, S. L	Decision Making for the Periodontal team	1
58	Page, Roy C.	Periodontics in Man and Other Animals	2
59	Pattison, A.M.	Periodontal Instrumentation 2/e	1
60	Pawlak, Elizabeth A	Essentials of Periodontics 3/e	20
61	Polson, Alan M.	Periodontal Regeneration Current Status	3
62	Preus, Hans R.	Periodontal Diseases	1
63	Ramfjord, Sigud P	Periodontology and Periodontics	21
64	Rao, T R Gururaja	Textbook of Periodontology 2/e	3
65	Rose, Louis F.	Periodontal Medicine	3
66	Rose, Louis F.	Periodontics, Medicine, Surgery and Implants	1
67	Sato, Naosi	Periodontal Surgery : A Clinical Atlas	2
68	Searson, Lloyd	Implantology in General Dental Practice	1
69	Steenberghe, Daniel Van	Breath Malodor : A Step by Step Approach	1
70	Strahan. J.D.	A Colour Atlas of Periodontology	1
71	Tuncay, Orhanc	The Invisalign System	1
72	Tsukiboshi, M.	Autotransplantation of teeth	1
73	Van Way III, Charles	Nutrition Secrets.	1
74	Varma, B R R	Current Concept in Periodontics 1/e	10
75	Varma, B R R	Clinical Periodontology Revised	20
76	Waite, Ian M	Colour Atlas of Periodontal Surgery 3/e	2
77	Wilkins, Esther M.	Clinical Practice of the Dental Hygienist 9/e	1



78	Wilson, Thomas G	Advances in Periodontics	1
79	Wilson, Thomas G	Dental Maintenance for Patients with Periodontal Diseases	2
80	Wilson, Thomas G	Fundamentals of Periodontics 2/e	2
81	Wilson, Thomas G	Periodontal Regeneration Enhanced	1
82	Woelfel, Julian B.	Color Atlas of Dental Medicine : Periodontology	1
83	Miserendino	Lasers in Dentistry	1
84	Berns, Joel M.	Understanding Periodontal Diseases	1
85	Chapple	Understanding Periodontal Diseases	1
86	Mahesh Lanka	A Practical Guide to Implant Dentistry	1
87	Palacci, Patrick	Essentials Implant Dentistry	1
88	Berns, Joel M.	Why Replace a Missing Back Tooth?	1
89	Garg, Arun K.	Bone Biology, Harvesting, Grafting for Dental Implant	1
<b>Total Books</b>			<b>277</b>

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DEPARTMENT OF PERIODONTICS

List of Current Journals for Periodontics Department

**International Journals**

<b>S. No.</b>	<b>Name of the Journals</b>
1	Journal of Clinical Periodontology
2	Journal of Periodontal Research
3	Journal of Periodontology
4	Periodontology 2000
5	British Dental Journal
6	Dental Abstracts
7	Dental Clinics of North America
8	Dental Update
9	International Dental Journal
10	Journal of American Dental Association
11	Journal of Dental Research
12	Journal of Dental Science
13	Oral Diseases
14	Oral Microbiology and Immunology

**National Journals**

<b>S. No.</b>	<b>Name of the Journals</b>
1	Journal of Indian Society of Periodontology
2	Clinical Dentistry
3	Dental Horizon
4	Dental Practice
5	Famdent
6	Indian Dental Research and Review
7	Indian Journal of Dental Research
8	Journal of Pierre Fauchard Academy
9	Journal of the Indian Dental Association
10	Quintessence International Journal









**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi - Meerut Road, Murad Nagar, Ghaziabad

**Department of Periodontology and Oral Implantology**

**CATEGORY - A**

**EVALUATION OF CLINICAL WORK DONE SCALING AND ROOT PLANING (Hand Instruments)**

**15 cases**

S.N.	Date	Name	OPD No.	Work Done	Grade	Sign.























































































**Attendance requirement for University Examination Appearance 85%**

Weekly distribution of Teaching / Clinical / Seminar / Lecture Session

DAY	8:30 A.M. To 10:00 A.M.	10:00 A.M. To 1:00 P.M.	1:00 P.M To 3:00 P.M.
Monday	Case Demonstration	O.P.D /Pre Clinical	Pre-Clinical Work
Tuesday	Seminar	O.P.D /Pre Clinical	Pre-Clinical Work /Didactic Lecture
Wednesday	Case demo/discn	O.P.D /Pre Clinical	Pre-Clinical Work /Synopsis work
Thursday	Case discussion	O.P.D /Pre Clinical	Pre-Clinical Work /Laboratory work
Friday	Journal Club	O.P.D /Pre Clinical	Pre-Clinical Work /Clinical work
Saturday	Case Presentation	O.P.D /Pre Clinical	Pre-Clinical Work/ Didactic Lect.-Basic Sc.

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**MONITORING LEARNING PROGRESS**  
**MODEL CHECK LIST FOR EVALUATION JOURNAL REVIEW PRESENTATION**

CHECKLIST – 1

Date:

Name of the Trainee:

Name of the Faculty/ Observer

Sl. No.	Items for observation during presentation	Poor O	Below Average 1	Average 2	Good 3	Very good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate					
3	Whether cross references have been consulted					
4	Whether other relevant publications consulted					
5	Ability to respond to questions on the paper / subject					
6	Audio – visuals aids used					
7	Ability to defend the paper					
8	Clarity of presentation					
9	Any other observation					
	Total Score					

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Section – IV  
MONITORING LEARNING PROGRESS  
CHECKLISTS & LOGBOOK

CHECKLIST – 2  
MODEL CHECK LIST FOR EVALUATION SEMINAR PRESENTATIONS

Date :

Name of the Trainee:

Name of the Faculty/ Observer

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very good 4
1	Whether other relevant publications consulted					
2	Whether cross references have been consulted.					
3	Completeness of preparation.					
4	Clarity of Presentation					
5	Understanding of Subject					
6	Ability to answer the questions					
7	Time scheduling					
8	Appropriate use of Audio – Visual aids					
9	Over all Performance					
10	Any other Observation					
	Total Score					



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Section – IV  
 MONITORING LEARNING PROGRESS  
 CHECKLISTS & LOGBOOK

CHECKLIST – 3  
 MODEL CHECK LIST FOR EVALUATION CLINICAL WORK IN OPD

Date :

Name of the Trainee:

Name of the Faculty/ Observer

<b>Sl. No.</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very good 4</b>
1	Regularity of attendance					
2	Punctuality					
3	Interaction with colleagues and supportive					
4	Maintenance of case records					
5	Presentation of case					
6	Investigation work – up					
7	Chair Side manner					
8	Report with patient					
9	Overall quality of clinical work					
	Total Score					

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CHECKLIST – 4  
 EVALUATION FORM FOR CLINICAL CASE PRESENTATION

Date :

Name of the Trainee:

Name of the Faculty/ Observer

Sl. No.	Items for observation during presentation	Poor O	Below Average 1	Average 2	Good 3	Very good 4
1	Completeness of history					
2	Whether all relevant points elicited					
3	Clarity of presentations					
4	Logical Order					
5	Mentioned all positive and negative					
6	Accuracy of general physical examination					
7	Diagnosis Whether it-follows logically from history and findings					
8	Investigations required					
	Complete list					
	Relevant Order					
	Interpretation of Investigations					
9	Ability to react to questioning whether it follows logically from history and finding					

10	Ability to defend diagnosis					
11	Ability to justify differential diagnosis					
12	Others					
	Grand Total					

[Please use a separate sheet for each faculty member]

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CHECKLIST – 5  
 MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL

Date :

Name of the Trainee:

Name of the Faculty/ Observer

S.No.		Strong Point		Weak Points	
1	Communication of the purpose of the talk				
2	Evokes audience interest in the subject				
3	The introduction				
4	The sequence of ideas				
5	The use of practical examples and / or illustrations				
6	Speaking style (enjoyable monotonous. e.t.c. Specify)				
7	Attempts audience participation				
8	Summary of the main points at the end				
9	Asks questions				
10	Answers Questions asked by audience				
11	Rapport of speaker with his audience				
12	Effectiveness of the talk				
13	Uses AV aids appropriately				

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**CHECKLIST – 6**  
**MODEL CHECK LIST FOR DISSERTATION PRESENTATION**

Date :

Name of the Trainee:

Name of the Faculty/ Observer

Sl. No.	Points to be considered	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Interest shown in selecting topic					
2	Appropriate Review					
3	Discussion with guide and other faculty					
4	Quality of Protocol					
5	Preparation of Performa					
	Total Score					

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CHECKLIST – 7  
 CONTINUOUS EVALUATION OF DISSERTATION WORK BY GUIDE / CO GUIDE

Date :

Name of the Trainee:

Name of the Faculty/ Observer

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Periodic consultation with guide / co-guide					
2	Regular collection of case material					
3	Depth of analysis / Discussion					
4	Department Presentations of findings					
5	Quality of Final Output					
6	Others					
	Total Score					

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**CHECKLIST – 8**  
**OVERALL ASSESSMENT SHEET**

Date :

Check List No.	Name of the trainee and Mean score								
	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									
6									
7									

Signature of HOD

Signature of Principal

The above overall assessment sheet used along with the logbook should form the basis for certifying satisfactory completion of course of study, in addition to the attendance requirement

Key:

Mean score : Is the sum of all the scores of checklists 1 to 7

A,B, ..... : Name of trainees



**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**  
**Delhi-Meerut Road, Muradnagar, Ghaziabad (UP) – 201206**  
**Ph. 8447753520, 21, 22**  
**[www.itsdentalcollege.com](http://www.itsdentalcollege.com), [dental@its.edu.in](mailto:dental@its.edu.in)**

**DEPARTMENT**  
**OF**  
**PUBLIC HEALTH DENTISTRY**

**LOG BOOK FOR P.G. STUDENTS**



*CERTIFICATE*

This is to certify that the logbook is the testimony of the bonafide work done by postgraduate student Dr. .... of the Department of Public Health Dentistry M.D.S (Batch 2020 – 2023).

Place: Professor & Head  
Date: Department of Public Health Dentistry

**CONTENTS**

Serial No.	Contents	Page No.
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2	Library Dissertation	2
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4.	Journal Article	7-10
5.	Term Paper	11
6.	Problem Solving	12-13
7.	Pedagogy	14
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20.	Awards/Achievements	40

## Dissertation

Serial no.	Date	Topic	Signature of Teacher	Remark

**Signature of HOD**

# Library Dissertation

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>

**Signature of HOD**

# Seminars

Serial no.	Date	Topic	Signature of Teacher	Remark

**Signature of HOD**

# Seminars

Serial no.	Date	Topic	Signature of Teacher	Remark

Signature of HOD

## Seminars

Serial	Date	Topic	Signature	Remark
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no.			of Teacher	

Signature of HOD

## Seminars

Serial no.	Date	Topic	Signature of Teacher	Remark
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**Signature of HOD**

**Journal Article**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Journal Article**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Journal Article**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Journal Article**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Term Paper**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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Signature of HOD

## Problem Solving

Serial no.	Date	Topic	Signature of Teacher	Remark
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Signature of HOD

## Problem Solving

Serial no.	Date	Topic	Signature of Teacher	Remark
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**Signature of HOD**

**Pedagogy**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

## **Indices**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

## **Indices**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Indices**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Case History**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Case History**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Case History**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

## **Case History Presentation**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

## **Case History Presentation**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

## **Case History Presentation**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

## **Comprehensive Care**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Comprehensive Care**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Comprehensive Care**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Preventive Procedure**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Preventive Procedure**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Preventive Procedure**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Camps Attended**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Camps Attended**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Camps Organized and Conducted**

Serial no.	Date	Topic	Signature of Teacher	Remark
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**Signature of HOD**

### **Camps Organized and Conducted**

Serial no.	Date	Topic	Signature of Teacher	Remark
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**Signature of HOD**

**Field Visit**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**Scientific Activity ( Conference, Convention,  
Workshop, CDE, )**

Serial no.	Date	Topic	Signature of Teacher	Remark
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**Signature of HOD**

**Scientific Activity (Publication, Paper/Poster presentation, any other)**

Serial no.	Date	Topic	Signature of Teacher	Remark
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**Signature of HOD**

**Scientific Activity (Publication, Paper/Poster presentation, any other)**

Serial no.	Date	Topic	Signature of Teacher	Remark
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**Signature of HOD**

### **Health Education Programs**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

### **Clinicopathological Conference**

<b>Serial no.</b>	<b>Date</b>	<b>Topic</b>	<b>Signature of Teacher</b>	<b>Remark</b>
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**Signature of HOD**

**AWARD / ACHIEVEMENT**

<b>Serial No</b>	<b>NAME</b>	<b>AWARD</b>	<b>EVENT</b>


**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**  
**DELHI- MEERUT ROAD, GHAZIABAD**



**POST GRADUATE LOG BOOK**

*Department Of Prosthodontics Including Crown & Bridge, Maxillofacial  
Prosthodontics & Oral Implantology*

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

**DEPARTMENT OF PROSTHODONTICS INCLUDING CROWN & BRIDGE,  
MAXILLOFACIAL PROSTHODONTICS & ORAL IMPLANTOLOGY**

**CERTIFICATE**

This is to certify that Dr. \_\_\_\_\_  
has satisfactorily completed the requirements of the Preclinical, Clinical & Academic Post Graduate  
Prosthodontics Programme as prescribed by Chaudhary Charan Singh University, Meerut, for the  
MDS Course during the years..... to.....

P.G GUIDE

HEAD OF DEPARTMENT

## CONTENTS

1. Overall assessment
2. Work summary
3. Preclinical Exercises
  - a. Complete Dentures
  - b. Removable Partial/ Cast Partial Dentures
  - c. Fixed Partial Dentures
  - d. Maxillofacial Prosthodontics
  - e. Implantology
4. Seminars Presented
5. Seminars Attended
6. Journal Club Presented
7. Journal Club Attended
8. Conferences, Conventions, Workshops attended
9. Paper/ Poster/ Table Clinic presentations
10. Publications
11. Undergraduate Lectures
12. Pedagogy
13. Thesis Progress Evaluation
14. Library Dissertation Progress Evaluation
15. Teaching Skills
16. Clinical Work Proformas

**OVERALL ASSESSMENT SHEET**

<b>Name of Trainee</b>	<b>Faculty Member</b>	<b>Mean Score Out of 10</b>
<b>TOTAL SCORE</b>		

**Score of HOD****Signature of Director PG**

## WORK SUMMARY

S. No.	PROCEDURE	No. of Cases
1.	<p style="text-align: center;"><b>TOOTH &amp; TOOTH SURFACE RESTORATIONS</b></p> <p>a) Composites: Fillings; Laminates, Inlays &amp; Onlays  b) Ceramics: Laminates, Inlays &amp; Onlays  c) Glass Ionomer</p>	
2.	<p style="text-align: center;"><b>CROWNS</b></p> <p>a) FVC for Metal  b) FVC for Ceramic  c) 3/4<sup>th</sup> Crowns (Premolars, Canines &amp; Centrals)  d) 7/8<sup>th</sup> Posterior Crown  e) Proximal Half Crown  f) Pin ledge &amp; Pinhole Crowns  g) Telescopic Crowns  h) Post and core  i) Crown as Implant Supported Prosthesis</p>	
3.	<p style="text-align: center;"><b>FIXED PARTIAL DENTURE</b></p> <p>a) CAD / CAM (3 unit)  b) Cast Metal – Precious &amp; Non Precious (3 Unit Posterior)  c) Porcelain Fused to Metal (Anterior &amp; Posterior)  d) Multiple Abutment – Maxillary &amp; Mandibular Full Arch  e) Incorporation of Custom Made &amp; Ready Made Precision Joint or Attachment  f) Multiple Abutment – Maxillary &amp; Mandibular Full Arch  g) Adhesive Bridge for Anterior/Posterior  h) Metal Fused to Resin Anterior FPD  i) Prosthesis as a Retention &amp; Rehabilitation for Acquired &amp; Congenital Defects – Maxillofacial Prosthesis</p>	

	<ul style="list-style-type: none"> <li>j) Implant Supported Prosthesis</li> <li>k) Implant – Tooth Supported Prosthesis</li> </ul>	
<b>4.</b>	<p><b>REMOVABLE PARTIAL DENTURE</b></p> <ul style="list-style-type: none"> <li>a) Provisional Partial Denture Prosthesis</li> <li>b) Cast Removable Partial Denture (for Kennedy’s Applegate Classification with Modification)</li> <li>c) Immediate RPD</li> <li>d) Partial Denture for Medically Compromised &amp; Handicapped Patients</li> </ul>	
<b>5.</b>	<p><b>COMPLETE DENTURES</b></p> <ul style="list-style-type: none"> <li>a) Anatomic &amp; Characterized Prosthesis (by using semi-adjustable articulator)</li> <li>b) Single Dentures</li> <li>c) Overlay Dentures</li> <li>d) Interim Complete Dentures as a Treatment Prosthesis for Abused Denture Supporting Tissues</li> <li>e) Complete Denture Prosthesis (for abnormal ridge relation, ridge form &amp; ridge size)</li> <li>f) Complete Denture for Patients with TMJ Syndrome</li> <li>g) Complete Dentures for Medically Compromised &amp; Handicapped Patients</li> <li>h) Neurocentric Occlusion &amp; Characterized Prosthesis</li> </ul>	
<b>6.</b>	<p><b>GERIATRIC PATENTS</b></p> <ul style="list-style-type: none"> <li>a) Tooth &amp; Tooth Surface restorations, crowns, fixed prosthesis, removable prosthesis</li> </ul>	
<b>7.</b>	<p><b>IMPLANT SUPPORTED COMPLETE PROSTHESIS</b></p> <ul style="list-style-type: none"> <li>a) Implant Supported Complete Prosthesis (Maxillary &amp; Mandibular)</li> </ul>	
<b>8.</b>	<p><b>MAXILLOFACIAL PROSTHESIS</b></p> <ul style="list-style-type: none"> <li>b) Guiding Flange &amp; Obturators</li> </ul>	



	<ul style="list-style-type: none"> <li>c) Speech &amp; Palatal Lift Prosthesis</li> <li>d) Eye Prosthesis</li> <li>e) Ear Prosthesis</li> <li>f) Nose Prosthesis</li> <li>g) Face Prosthesis</li> <li>h) Prosthesis for Maxillectomy</li> <li>i) Prosthesis for Hemimandibulectomy</li> <li>j) Prosthesis Cranioplasty</li> <li>k) Finger / Hand, Foot prosthesis</li> <li>l) Body Prosthesis</li> <li>m) Management of Burns, Scars</li> </ul>	
<b>9.</b>	<p><b>TMJ SYNDROME MANAGEMENT</b></p> <ul style="list-style-type: none"> <li>a) Splints – Periodontal, teeth, jaws</li> <li>b) TMJ Supportive &amp; Treatment Prosthesis</li> <li>c) Stabilization appliances for Maxilla &amp; Mandible with Freedom to move in Centric</li> <li>d) Stabilization appliances for Maxilla &amp; Mandible in IP without the freedom to move to CRCP</li> <li>e) Repositioning Appliances, Anterior Disocclusion</li> <li>f) Chrome Cobalt &amp; Acrylic Resin Stabilization Appliances for modification to accommodate for the irregularities in dentition</li> <li>g) Occlusal adjustment &amp; Occlusal Rehabilitation</li> </ul>	
<b>10.</b>	<p><b>FULL MOUTH REHABILITATION</b></p> <ul style="list-style-type: none"> <li>a) Full Mouth Rehabilitation – Restoration of Esthetics &amp; function of Stomatognathic System</li> </ul>	
<b>11.</b>	<p><b>INTER-DISCIPLINARY TREATMENT MODALITIES</b></p> <ul style="list-style-type: none"> <li>a) Inter-disciplinary management – restoration of Oro-craniofacial Defects for esthetics, phonation, mastication &amp; psychological comfort</li> </ul>	
<b>12.</b>	<p><b>MANAGEMENT OF FAILED RESTORATIONS</b></p> <ul style="list-style-type: none"> <li>b) Tooth &amp; Tooth Surface Restorations</li> <li>c) Removable Prosthesis</li> </ul>	

	<ul style="list-style-type: none"><li>d) Crowns &amp; Fixed Prosthesis</li><li>e) Maxillofacial Prosthesis</li><li>f) Implant Supported Prosthesis</li><li>g) Occlusal Rehabilitation &amp; TMJ Syndrome</li><li>h) Restoration Failure of Psychogenic Origin</li><li>i) Restoration Failure due to Age Changes</li></ul>	
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# **PRE CLINICAL EXERCISES**

**COMPLETE  
DENTURE PRECLINICAL  
EXERCISES**



**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 1**

**Name of the Student:**

**COMPLETE DENTURE FABRICATION – CLASS I JAW RELATION**

<b>S. NO.</b>	<b>Particulars</b>	<b>Date</b>	<b>Checked by</b>	<b>Remarks</b>
1.	Pouring of models			
2.	Fabrication of record bases			
3.	Fabrication of occlusal rims			
4.	Articulation			
5.	Teeth arrangement Anterior Posterior			
6.	Wax up & carving			
7.	Acrylization			
8.	Remounting & occlusal adjustment			
9.	Finishing & polishing			

**Approved By**

**HOD**

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 2**

**Name of the Student:**

**COMPLETE DENTURE FABRICATION – CLASS II JAW RELATION**

<b>S. NO.</b>	<b>Particulars</b>	<b>Date</b>	<b>Checked by</b>	<b>Remarks</b>
1.	Pouring of models			
2.	Fabrication of Record Bases			
3.	Fabrication of occlusal rims			
4.	Articulation			
5.	Teeth Arrangement Anterior Posterior			
6.	Wax up & carving			
7.	Acrylization			
8.	Remounting and occlusal adjustment			
9.	Finishing and polishing			

Approved by

HOD





**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise – 3**

**Name of the Student:**

**COMPLETE DENTURE FABRICATION – CLASS III JAW RELATION**

<b>S. NO.</b>	<b>Particulars</b>	<b>Date</b>	<b>Checked by</b>	<b>Remarks</b>
1.	Pouring of models			
2.	Fabrication of Record Bases			
3.	Fabrication of occlusal rims			
4.	Articulation			
5.	Teeth Arrangement Anterior Posterior			
6.	Wax up & carving			
7.	Acrylization			
8.	Remounting and occlusal adjustment			
9.	Finishing and polishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 4**

**Name of the Student:**

**REPAIR OF MAXILLARY COMPLETE DENTURE**

<b>S. NO.</b>	<b>Particulars</b>	<b>Date</b>	<b>Checked by</b>	<b>Remarks</b>
1.	Fracture of maxillary complete denture			
2.	Stabilization and pouring of cast			
3.	Preparation of fractured segments			
4.	Wax up			
5.	Acrylization			
6.	Finishing and polishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 5**

**Name of the Student:**

**RELINING OF MANDIBULAR COMPLETE DENTURE**

<b>S. NO.</b>	<b>Particulars</b>	<b>Date</b>	<b>Checked by</b>	<b>Remarks</b>
1.	Articulation of maxillary and Mandibular dentures			
2.	Trimming of borders of the mandibular complete denture			
3.	Wax up of the mandibular denture			
4.	Acrylization			
5.	Finishing and polishing of mandibular complete denture			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 6**

**Name of the Student:**

**BALANCED OCCLUSION CLASS-I COMPLETE DENTURE**

<b>S. NO.</b>	<b>Particulars</b>	<b>Date</b>	<b>Checked by</b>	<b>Remarks</b>
1.	Pouring of model			
2.	Fabrication of Record Bases			
3.	Fabrication of occlusal rims			
4.	Articulation			
5.	Teeth Arrangement Anterior Posterior			
6.	Wax up& carving			
7.	Acrylization			
8.	Remounting and balancing			
9.	Finishing and polishing			

Approved by

HOD

# **REMOVABLE PARTIAL / CAST PARTIAL DENTURE**

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 7**

**Name of the Student:**

**Surveying, Designing and wax up of Kennedy's class – I partially edentulous situation**

S. NO.	Particulars	Date	Checked by	Remarks
1.	Pouring of cast			
2.	Surveying, block out and designing			
3.	Designing & block out			
4.	Refractory cast			
5.	Wax up			
6.	Investing & casting			
7.	Finishing & polishing			
8.	Arrangement of teeth, flasking, dewaxing and packing.			
9.	Trimming, finishing and polishing of the acrylised denture.			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 8**

**Name of the Student:**

**Surveying, Designing and wax up of Kennedy's class – II partially edentulous situation**

S. NO.	Particulars	Date	Checked by	Remarks
1.	Pouring of cast			
2.	Surveying of cast			
3.	Designing&block out			
4.	Refractory cast			
5.	Wax up			
6.	Investing & casting			
7.	Finishing & polishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 9**

**Name of the Student:**

**Surveying, Designing and wax up of Kennedy`s class – III partially edentulous situation**

S. NO.	Particulars	Date	Checked by	Remarks
1.	Pouring of cast			
2.	Surveying of cast			
3.	Designing&block out			
4.	Refractory cast			
5.	Wax up			
6.	Investing & casting			
7.	Finishing & polishing			

Approved by

HOD



**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 10**

**Name of the Student:**

**Surveying, Designing and waxup of Kennedy`s class – IV partially edentulous situation**

S. NO.	Particulars	Date	Checked by	Remarks
1.	Pouring of cast			
2.	Surveying of cast			
3.	Designing&block out			
4.	Refractory cast			
5.	Wax up			
6.	Investing & casting			
7.	Finishing & polishing			

Approved by

HOD

# **FIXED PARTIAL DENTURE - PRECLINICAL EXERCISE**

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 11**

**Name of the Student:**

**ALL CERAMIC CROWN- MAXILLARY CENTRAL INCISOR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Wax Pattern			
5.	Investing& Burn Out			
6.	Pressing&Divesting			
7.	Ceramic Layering/Staining			
8.	Finishing and Polishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 12**

**Name of the Student:**

**Name of the Faculty/Observer:**

**PORCELAIN LAMINATE - MAXILLARY CENTRAL INCISOR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Wax Pattern			
5.	Investing & Burn Out			
6.	Pressing & Divesting			
7.	Ceramic Layering/Staining			
8.	Finishing and Polishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 13**

**Name of the Student:**

**PORCELAIN FUSED TO METAL WINGED – MAXILLARY CENTRAL INCISOR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Full Contour Wax Up & Index			
5.	Layered Build Up & Curing			
6.	Finishing & Glazing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 14**

**Name of the Student:**

**PORCELAIN FUSED TO METAL WINGED – MAXILLARY CANINE**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Full Contour Wax Up & index			
5.	Layered build up			
6.	Finishing and glazing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 15**

**Name of the Student:**

**7/8<sup>TH</sup> TOOTH PREPARATION ON MAXILLARY 1<sup>ST</sup> MOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 16**

**Name of the Student:**

**INLAY PREPARATION ON MAXILLARY 2<sup>ND</sup> MOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Preparation of molar tooth for inlay			

Approved by

HOD



**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise – 17**

**Name of the Student:**

**ONLAY PREPARATION ON MAXILLARY 1<sup>st</sup> MOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Preparation of molar tooth for class II inlay			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 18**

**Name of the Student:**

**PIN LEDGE RETAINER 3/4<sup>TH</sup> CROWN ON MAXILLARY CANINE**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Wax Pattern			
5.	Casting, Finishing & Polishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 19**

**Name of the Student:**

**MESIAL HALF CROWN ON MANDIBULAR 2<sup>ND</sup> MOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Wax Pattern			
5.	Casting, Finishing & Polishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 20**

**Name of the Student:**

**POST AND CORE ON MANDIBULAR 1<sup>ST</sup> MOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Removal of gutta percha &Preparation of post space			
2.	Wax pattern fabrication, core preparation, casting and finishing			
3.	Finishing of the casting			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 21**

**Name of the Student:**

**POST AND CORE ON MANDIBULAR CANINE**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Removal of gutta percha & Preparation of post space			
2.	Wax pattern fabrication, core preparation, casting and finishing			
3.	Finishing of the casting			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 22**

**Name of the Student:**

**3 / 4 CROWN ON MANDIBULAR 1<sup>ST</sup> PREMOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 23**

**Name of the Student:**

**PORCELAIN FUSED TO METAL CROWN ON MANDIBULAR 1<sup>ST</sup> MOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Wax Pattern			
5.	Casting, Finishing & Polishing			
6.	Ceramic layering			
7.	Finishing and glazing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 24**

**Name of the Student:**

**FULL CAST METAL CROWN RESTORATION ON MANDIBULAR 2<sup>ND</sup> MOLAR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Tooth preparation			
2.	Final Impression			
3.	Die Preparation			
4.	Wax Pattern			
5.	Casting, Finishing & Polishing			

Approved by

HOD



**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 25**

**Name of the Student:**

**WAX PATTERN FOR THE FOLLOWING PONTIC DESIGNS**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Ridge Lap			
2.	Sanitary			
3.	Modified Ridge Lap			
4.	Modified Sanitary			
5.	Spheroidal/Conical			

Approved by

HOD

**MAXILLOFACIAL  
PROSTHODONTICS –  
PRECLINICAL EXERCISE**

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 26**

**Name of the Student:**

**FABRICATION OF SILICONE NOSE PROSTHESIS**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Facial Moulage			
2.	Cast Preparation			
3.	Wax Pattern			
4.	Flasking & Dewaxing			
5.	Packing & Curing			
6.	Finishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 27**

**Name of the Student:**

**FABRICATION OF SILICONE EAR PROSTHESIS**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Impression			
2.	Cast Preparation			
3.	Wax Pattern			
4.	Flasking & Dewaxing			
5.	Packing & Curing			
6.	Finishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 28**

**Name of the Student:**

**FABRICATION OF SILICONE FACE PROSTHESIS**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Facial Moulage			
2.	Cast Preparation			
3.	Wax Pattern			
4.	Flasking & Dewaxing			
5.	Packing & Curing			
6.	Finishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 29**

**Name of the Student:**

**FABRICATION OF OBTURATOR**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Impression			
2.	Cast Preparation			
3.	Wax Pattern			
4.	Flasking & Dewaxing			
5.	Packing & Curing			
6.	Finishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 30**

**Name of the Student:**

**FABRICATION OF EYE PROSTHESIS**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Impression			
2.	Cast Preparation			
3.	Wax Pattern			
4.	Flasking & Dewaxing			
5.	Packing & Curing			
6.	Finishing			

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 31**

**Name of the Student:**

**FABRICATION OF MANDIBULAR GUIDANCE APPLIANCE**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Impression			
2.	Cast Preparation			
3.	Articulation			
4.	Fabrication of Guide Flange			
5.	Finishing & Polishing			

Approved by

HOD



# **IMPLANT PROSTHODONTICS - PRECLINICAL EXERCISE**

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise –32**

**Name of the Student:**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Sequential Osteotomy			
2.	Fabrication of Custom Tray for Closed Tray Impression Technique			

**Placement of Implant in a dummy maxilla**

Approved by

HOD

**PRECLINICAL EXERCISES FOR P.G. STUDENTS IN THE DEPARTMENT  
OF PROSTHODONTICS**

**Exercise - 33**

**Name of the Student:**

**Placement of Implant in a dummy mandible**

<b>S. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Signature</b>	<b>Remarks</b>
1.	Sequential Osteotomy			
2.	Fabrication of Custom Tray for Open Tray Impression Technique			

Approved by

HOD

# SEMINARS

## CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS

Name of Trainee:

Date:

Topic:

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

HOD SIGNATURE

## CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS

Name of Trainee:

Date:

Topic:

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

## CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS

Name of Trainee:

Date:

Topic:

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						



HOD SIGNATURE**CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

Name of Trainee:

Date:

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

HOD SIGNATURE**CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

Name of Trainee:

Date:

Topic:

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE****CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

Name of Trainee:

Date:

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					

<b>Total score</b>					
<b>Faculty signature</b>					

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					

10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					

9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					

8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					

7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor 1	Below average 2	Average 3	Good 4	Very good 5
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S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					



6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					

5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					

4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been consulted					

3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications consulted					
2.	Whether cross-reference have been					

	consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

### **CHECKLIST FOR EVALUATION OF SEMINAR PRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

S. No	Items for observation during presentation	Faculty score				
1.	Whether other relevant publications					

	consulted					
2.	Whether cross-reference have been consulted					
3.	Completeness of the preparation					
4.	Clarity of presentation					
5.	Understanding of the subject					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

# SEMINARS ATTENDED

## LIST OF SEMINARS ATTENDED IN POST GRADUATE TENURE

S. No	Topic of Seminar	Presented By/ Date	Faculty Signature






















































**JOURNAL CLUB  
PRESENTED**



**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

Name of Trainee:

Date:

Topic:

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					
4.	Whether other relevant publications were consulted					
5.	Ability to respond to questions on the paper / subject					
6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

HOD SIGNATURE**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

Name of Trainee:

Date:

Topic:

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					
4.	Whether other relevant publications were consulted					
5.	Ability to respond to questions on the paper / subject					
6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

HOD SIGNATURE

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

Name of Trainee:

Date:

Topic:

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					
4.	Whether other relevant publications were consulted					
5.	Ability to respond to questions on the paper / subject					
6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						

<b>Faculty signature</b>					
--------------------------	--	--	--	--	--

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:****Date:****Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
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4.	Whether other relevant publications were consulted					
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6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					

<b>Total score</b>					
<b>Faculty signature</b>					

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:****Date:****Topic:**

<b>Score value</b>	<b>Poor</b>	<b>Below average</b>	<b>Average</b>	<b>Good</b>	<b>Very good</b>
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<b>S. No</b>	<b>Items for observation during presentation</b>	<b>Faculty score</b>				
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2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					
4.	Whether other relevant publications were consulted					
5.	Ability to respond to questions on the paper / subject					
6.	Audio – video aids used					
7.	Ability to defend the paper					

8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:****Date:****Topic:**

Score value	Poor	Below average	Average	Good	Very good
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S. No	Items for observation during presentation	Faculty score				
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3.	Whether cross-reference have been consulted					
4.	Whether other relevant publications were consulted					
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6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

S. No	Items for observation during presentation	Faculty score				
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2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					
4.	Whether other relevant publications were consulted					

5.	Ability to respond to questions on the paper / subject					
6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

<b>Score value</b>	<b>Poor 1</b>	<b>Below average 2</b>	<b>Average 3</b>	<b>Good 4</b>	<b>Very good 5</b>
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S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					



4.	Whether other relevant publications were consulted					
5.	Ability to respond to questions on the paper / subject					
6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
2.	Extend of understanding of scope & objectives of the paper by the candidate					

3.	Whether cross-reference have been consulted					
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7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
2.	Extend of understanding of scope &					

	objectives of the paper by the candidate					
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6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor	Below average	Average	Good	Very good
	1	2	3	4	5

S. No	Items for observation during presentation	Faculty score				

1.	Article chosen was					
2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					
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7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

Score value	Poor 1	Below average 2	Average 3	Good 4	Very good 5

S. No	Items for observation during presentation	Faculty score				
1.	Article chosen was					
2.	Extend of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-reference have been consulted					
4.	Whether other relevant publications were consulted					
5.	Ability to respond to questions on the paper / subject					
6.	Audio – video aids used					
7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

**Name of Trainee:**

**Date:**

**Topic:**

<b>Score</b>	<b>Poor</b>	<b>Below average</b>	<b>Average</b>	<b>Good</b>	<b>Very good</b>
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<b>value</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
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<b>S. No</b>	<b>Items for observation during presentation</b>	<b>Faculty score</b>				
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<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
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**Name of Trainee:**

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<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**

**CHECKLIST FOR EVALUATION OF JOURNAL  
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8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

**HOD SIGNATURE**



**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

Name of Trainee:

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Score value	Poor	Below average	Average	Good	Very good
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7.	Ability to defend the paper					
8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						
<b>Faculty signature</b>						

HOD SIGNATURE

**CHECKLIST FOR EVALUATION OF JOURNAL  
REVIEWPRESENTATIONS**

Name of Trainee:

Date:

Topic:

<b>Score value</b>	<b>Poor</b>	<b>Below average</b>	<b>Average</b>	<b>Good</b>	<b>Very good</b>
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

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8.	Clarity of the presentation					
9.	Any other observation					
<b>Total score</b>						

<b>Faculty signature</b>					
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**HOD SIGNATURE**

**JOURNAL CLUB  
ATTENDED**























































# **CONFERENCES/CONVENTIONS/ WORKSHOPS**







# **PUBLICATIONS**





**LIST OF PUBLICATIONS DURING PG TENURE**

<b>S. No</b>	<b>Publication in Vancouver Format</b>	<b>Signature</b>

**PEDAGOGY**

<b>S.No</b>	<b>Topic</b>	<b>Clarity of Presentation</b>	<b>Content of Presentation</b>	<b>HOD Signature &amp; Remark</b>

**THESIS &  
LIBRARY DISSERTATION  
PROGRESS  
EVALUATION**

**THESIS PROGRESS EVALUATION**

**TOPIC :**

**Pilot Study Completed on :**

**Thesis Protocol Submitted on :**

<b>Date</b>	<b>Status of Review of Literature</b>	<b>Status of Sample Preparation</b>	<b>Status of Result Compilation/ Statistical Analysis</b>	<b>Status of Final Write Up</b>	<b>Signature</b>

**Final Submission:**









# **CASE PRESENTATIONS**

**DEPARTMENT OF PROSTHODONTICS, CROWN& BRIDGE DENTISTRY**

**M.D.S. PERFORMANCE CHECK LIST**

**EVALUATION FROM THE CLINICAL CASE PRESENTATION**

Name of the Trainee:

Date:

Sr. No	Items for observation during presentation	Faculty score				
1	Completeness of history					
2	Whether all relevant points elicited					
3	Clarity of presentations					
4	Logical order					
5	Mentioned all positive and negative findings					
6	Accuracy of general physical examination					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required					
	Complete list					
	Relevant order					
	Interpretation of investigations					
9	Ability to react to questioning whether it follows logically from history and findings					
10	Ability to defend diagnosis					
11	Ability to justify differential diagnosis					

11	Others					
	<b>Grand Total</b>					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY**

**M.D.S. PERFORMANCE CHECK LIST**

**EVALUATION FROM THE CLINICAL CASE PRESENTATION**

Name of the Trainee:

Date:

Sr. No	Items for observation during presentation	Faculty score				
1	Completeness of history					
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	<b>Grand Total</b>					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY**

**M.D.S. PERFORMANCE CHECK LIST**

**EVALUATION FROM THE CLINICAL CASE PRESENTATION**

Name of the Trainee:

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Sr. No	Items for observation during presentation	Faculty score				
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9	Ability to react to questioning whether it follows logically from history and findings					
10	Ability to defend diagnosis					
11	Ability to justify differential					

	diagnosis					
11	Others					
	<b>Grand Total</b>					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY**  
**M.D.S. PERFORMANCE CHECK LIST**  
**EVALUATION FROM THE CLINICAL CASE PRESENTATION**

Name of the Trainee:

Date:

Sr. No	Items for observation during presentation	Faculty score				
1	Completeness of history					
2	Whether all relevant points elicited					
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	<b>Grand Total</b>					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY**

**M.D.S. PERFORMANCE CHECK LIST**

**EVALUATION FROM THE CLINICAL CASE PRESENTATION**

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	<b>Grand Total</b>					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY**

**M.D.S. PERFORMANCE CHECK LIST**

**EVALUATION FROM THE CLINICAL CASE PRESENTATION**

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	from history and findings					
10	Ability to defend diagnosis					
11	Ability to justify differential diagnosis					
11	Others					
	<b>Grand Total</b>					

## TEACHING SKILLS



**DEPARTMENT OF PROSTHODONTICS, CROWN& BRIDGE DENTISTRY**

**M.D.S. PERFORMANCE CHECK LIST**

**MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL**

Name of the Trainee:

Date:

Name of the Faculty/Observer

<b>Sr. No</b>		<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Communication of the purpose of the talk					
2	Evokes audience interest in the subject					
3	The introduction					
4	The sequence of ideas					
5	The use of practical examples and/or illustrations					
6	Speaking style (Enjoyable, monotonous, etc. specify)					
7	Attempts audience participation					
8	Summary of the main points at					

	the end					
9	Asks questions					
10	Answers questions asked by the audience					
11	Rapport the speaker with his audience					
12	Effectiveness of the talk					
13	Uses AV aids appropriately					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY****M.D.S. PERFORMANCE CHECK LIST****MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL**

Name of the Trainee:

Date:

Name of the Faculty/Observer

<b>Sr. No</b>		<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Communication of the purpose of the talk					
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**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY****M.D.S. PERFORMANCE CHECK LIST****MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL**

Name of the Trainee:

Date:

Name of the Faculty/Observer

<b>Sr. No</b>		<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
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10	Answers questions asked by the audience					
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13	Uses AV aids appropriately					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY****M.D.S. PERFORMANCE CHECK LIST****MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL**

Name of the Trainee:

Date:

Name of the Faculty/Observer

<b>Sr. No</b>		<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Communication of the purpose of the talk					
2	Evokes audience interest in the subject					
3	The introduction					
4	The sequence of ideas					
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10	Answers questions asked by the audience					
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13	Uses AV aids appropriately					

**DEPARTMENT OF PROSTHODONTICS, CROWN & BRIDGE DENTISTRY****M.D.S. PERFORMANCE CHECK LIST****MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL**

Name of the Trainee:

Date:

Name of the Faculty/Observer

<b>Sr. No</b>		<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Communication of the purpose of the talk					
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11	Rapport the speaker with his audience					
12	Effectiveness of the talk					
13	Uses AV aids appropriately					

# **CLINICAL WORK PROFORMA**





































































































































**MANAGEMENT OF FAILED RESTORATIONS**

*Removable Prosthesis:*

<b>S.No</b>	<b>Date</b>	<b>CR No.</b>	<b>Patient Name</b>	<b>Work Done</b>	<b>Tooth Number</b>	<b>Signature</b>











**MANAGEMENT OF FAILED RESTORATIONS**

*Restoration Failure to Age Changes:*

<b>S.No</b>	<b>Date</b>	<b>CR No.</b>	<b>Patient Name</b>	<b>Work Done</b>	<b>Tooth Number</b>	<b>Signature</b>



# REMARKS

A large, empty rounded rectangular box with a thin black border, intended for writing remarks. The box is centered on the page and occupies most of the middle section.

**HOD**

# PRECLINICAL MANUAL FOR MDS

**Department of Conservative Dentistry  
& Endodontics**

I.T.S. CENTRE FOR DENTAL STUDIES & RESEARCH  
MURAD NAGAR, GHAZIABAD

# INDEX

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# WAX CARVINGS

**Time schedule: 2 Weeks**

1

3

# MAXILLARY TEETH

<b>S. NO.</b>	<b>TOOTH</b>	<b>SIGNATURE</b>
1.	CENTRAL INCISOR	
2.	LATERAL INCISOR	
3.	CANINE	
4.	FIRST PREMOLAR	
5.	SECOND PREMOLAR	
6.	FIRST MOLAR	
7.	SECOND MOLAR	



## MANDIBULAR TEETH

<b>S. NO.</b>	<b>TOOTH</b>	<b>SIGNATURE</b>
1.	CENTRAL INCISOR	
2.	LATERAL INCISOR	
3.	CANINE	
4.	FIRST PREMOLAR	
5.	SECOND PREMOLAR	
6.	FIRST MOLAR	
7.	SECOND MOLAR	

3

7



# SECTION CUTTINGS

**Time schedule: 2 Weeks**

4

8

## MAXILLARY TEETH

S. NO.	TOOTH	VERTICAL		HORIZONTAL		
		MESIO-DISTAL	LABIO-LINGUAL	CERVICAL 3 <sup>RD</sup>	MIDDLE 3 <sup>RD</sup>	APICAL 3 <sup>RD</sup>
1.	CENTRAL INCISOR					
2.	LATERAL INCISOR					
3.	CANINE					
4.	1 <sup>ST</sup> PREMOLAR					
5.	2 <sup>ND</sup> PREMOLAR					
6.	1 <sup>ST</sup> MOLAR					
7.	2 <sup>ND</sup> MOLAR					

5

10

## MANDIBULAR TEETH

S. NO.	TOOTH	VERTICAL		HORIZONTAL		
		MESIO-DISTAL	LABIO-LINGUAL	CERVICAL 3 <sup>RD</sup>	MIDDLE 3 <sup>RD</sup>	APICAL 3 <sup>RD</sup>
1.	CENTRAL INCISOR					
2.	LATERAL INCISOR					
3.	CANINE					
4.	1 <sup>ST</sup> PREMOLAR					
5.	2 <sup>ND</sup> PREMOLAR					
6.	1 <sup>ST</sup> MOLAR					
7.	2 <sup>ND</sup> MOLAR					

## DECIDUOUS TEETH (MOLAR)

S. NO.	TOOTH	VERTICAL	
		MESIO-DISTAL	LABIO-LINGUAL
1.	II MOLAR (MAX.)		
2.	II MOLAR (MAND)		

# EXERCISES ON PLASTER MODELS

**Time schedule: 2 Weeks**



## A. AMALGAM

<b>S. NO.</b>	<b>EXERCISE</b>	<b>SIGNATURE</b>
1.	CLASS II TOOTH PREPARATION THAT INVOLVES BOTH PROXIMAL SURFACES - MAXILLARY SECOND MOLAR WITH CARIES ON DISTAL PORTION OF FACIAL SURFACE	
2.	TOOTH PREPARATION FOR COMPLEX AMALGAM RESTORATION	



## B. CAST METAL RESTORATIONS

S. NO.	EXERCISE	SIGNATURE
<b>TOOTH PREPARATION FOR CLASS II METAL INLAY</b>		
3.	MAXILLARY FIRST MOLAR WITH UNAFFECTED STRONG OBLIQUE RIDGE	
4.	MANDIBULAR FIRST MOLAR, CAPPING CUSPS	
5.	SLICE PREPARATION	
6.	AUXILIARY SLICE	
<b>TOOTH PREPARATION FOR CAST METAL ONLAYS</b>		
7.	MANDIBULAR FIRST MOLAR	
ENHANCEMENT OF RESISTANCE AND RETENTION FORM -		
8.	SKIRT PREPARATION	
9.	COLLAR PREPARATION	
10.	SLOT PREPARATION	

**C. COMPOSITE**

<b>S. NO.</b>	<b>EXERCISE</b>	<b>SIGNATURE</b>
11.	COMBINATION OF CONVENTIONAL AND BEVELED CONVENTIONAL CLASS III TOOTH PREPARATION	

**D. INDIRECT TOOTH COLOURED RESTORATIONS**

<b>S. NO.</b>	<b>EXERCISE</b>	<b>SIGNATURE</b>
12.	MESIO-OCCLUSAL INLAY PREPARATION IN MAXILLARY FIRST PREMOLAR	

**E. ADDITIONAL CONSERVATIVE ESTHETIC PROCEDURES**

<b>S. NO.</b>	<b>EXERCISE</b>	<b>SIGNATURE</b>
<b>FULL VENEER PREPARATION</b>		
13.	WINDOW PREPARATION	
14.	INCISAL LAPPING PREPARATION	



# EXERCISES ON TYPODONT TEETH

**Time schedule: 1 month**



## A. PREPARATIONS FOR SILVER AMALGAM

S.NO.	EXERCISE	TOOTH NO.	CAVITY PREPARATION	BASE APPLICATION	RESTORATION	FINISHING AND POLISHING
1.	CLASS I					
2.	CLASS I with B/L EXTENSION					
3.	CLASS II (CONVENTIONAL)					
4.	CLASS II (CONVENTIONAL)					
5.	CLASS II (MOD CAVITY)					





<b>S.NO.</b>	<b>EXERCISE</b>	<b>TOOTH NO.</b>	<b>CAVITY PREP</b>	<b>BASE APP</b>	<b>RESTORATION</b>	<b>FINISHING &amp; POLISHING</b>
6.	CLASS II (CONSERVATIVE )					
7.	CLASS II (CONSERVATIVE )					
8.	CLASS II (CONSERVATIVE )					
9.	CLASS II (CUSP BUILD UP )					

## B. PREPARATIONS FOR CAST METAL

S.NO.	EXERCISE	TOOTH NO.	CAVITY PREPARATION	WAX PATTERN	CASTING	FINISHING AND POLISHING
1.	CLASS II (MO)					
2.	CLASS II (MO)					
3	CLASS II (DO)					
4	CLASS II (DO)					
5	CLASS II (MOD)					
6	CLASS II (MOD)					

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16

### C. ONLAY PREPARATION ON MOLARS

S.NO.	EXERCISE WITH TOOTH NO.	TOOTH PREPARATION	WAX PATTERN	CASTING	FINISHING & POLISHING
1.					
2.					

26

17

**D. PREPARATIONS FOR FULL COVERAGE RESTORATIONS- ANTERIOR**

<b>S.NO.</b>	<b>TOOTH PREPARATION</b>	<b>TOOTH NO.</b>	<b>CROWN REDUCTION</b>	<b>WAX PATTERN</b>	<b>CASTING</b>	<b>FINISHING AND POLISHING</b>
1.						
2.						

## E. PREPARATIONS FOR FULL COVERAGE RESTORATIONS- POSTERIOR

<b>S.NO.</b>	<b>TOOTH PREPARATION</b>	<b>TOOTH NO.</b>	<b>CROWN REDUCTION</b>	<b>WAX PATTERN</b>	<b>CASTING</b>	<b>FINISHING AND POLISHING</b>
1.						
2.						

19

# EXERCISES ON NATURAL TEETH

**Time schedule: 1 month**

29

20

## INLAY ON MOLARS AND PREMOLARS

(on molars and premolars MO, DO, and MOD )

S.NO	TOOTH NO. &TYPE	CAVITY PREP	WAX PATTERN	REMOVABLE DIE	CASTING	FINISHING & POLISHING
1						
2						
3						
4						
5						

30

21

**B. EXERCISES FOR CLASS II AMALGAM**

<b>S.NO.</b>	<b>TOOTH NO. WITH TYPE</b>	<b>CAVITY PREP</b>	<b>BASE APP</b>	<b>RESTORATION</b>	<b>FINISHING &amp; POLISHING</b>
1.	(CONVENTIONAL )				
2.	(CONVENTIONAL )				
3.	(CONSERVATIVE)				
4.	(CONSERVATIVE)				

31



22

**C. PIN RETAINED AMALGAM ON MOLAR TEETH**

<b>S.NO.</b>	<b>TOOTH NO.</b>	<b>CAVITY PREP</b>	<b>BASE APP</b>	<b>RESTORATION</b>	<b>FINISHING &amp; POLISHING</b>
1.					
2.					

32

23

## D. POST & CORE (ANTERIOR TEETH)

S.NO.	POST SPACE PREPARATION	WAX PATTERN FABRICATION	CASTING	POST & CORE CEMENTATION
1				
2				
3				
4				
5				
6				

<b>7</b>	
<b>8</b>	
<b>9</b>	
<b>10</b>	

24

### **E. POST & CORE (POSTERIOR TEETH)**

<b>S.NO.</b>	<b>TOOTH NO.</b>	<b>POST SPACE PREPARATION</b>	<b>WAX PATTERN FABRICATION</b>	<b>CASTING</b>	<b>POST &amp; CORE CEMENTATION</b>
<b>1</b>					
<b>2</b>					
<b>3</b>					

34

<b>4</b>		
<b>5</b>		

25

## **F. ONLY ON MOLARS**

<b>S.NO.</b>	<b>Exercise with Tooth No.</b>	<b>Tooth Reduction</b>	<b>Wax Pattern</b>	<b>Casting</b>	<b>Finishing &amp; Polishing</b>
<b>1.</b>					
<b>2.</b>					

35

26

**G. PREPARATION FOR FULL COVERAGE RESTORATIONS – ANTERIOR**

<b>S.NO.</b>	<b>EXERCISE &amp; TOOTH NO.</b>	<b>CROWN REDUCTION</b>	<b>WAX PATTERN FABRICATION</b>	<b>CASTING</b>	<b>FINISHING &amp; POLISHING</b>
<b>1</b>	ANTERIOR (PFM)				
<b>2</b>	ANTERIOR (All Ceramic)				

36

3	ANTERIOR (All Ceramic)				
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27

## H. PREPARATION FOR FULL COVERAGE RESTORATIONS – POSTERIORES

S.N O.	EXERCISE & TOOTH NO.	CROWN REDUCTION	WAX PATTERN FABRICATION	REMOVABLE DIE	CASTING	FINISHING & POLISHING
1	ALL METAL (MOLAR)					

2	PFM (PREMOLAR)					
3	ALL METAL (All Ceramic)					
4	PFM (All Ceramic)					

28

### I. ANTERIOR TEETH – VENEERS FOR CERAMIC – (INDIRECT METHOD)

S.NO.	TOOTH NO.	TOOTH PREPARATION	FABRICATION	CEMENTATION	FINISHING
1.					

2.			
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29

## J. COMPOSITE INLAY

S.NO.	Exercise with Tooth No.	Tooth Preparation
1.		

39



2.		
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# PRECLINICAL ENDODONTIC EXERCISES

**Time schedule: 2 Weeks**

## ROOT CANAL TREATMENT ON EXTRACTED TEETH (MAXILLARY)

TOOTH	ACCESS OPENING	DIAGNOSTIC RADIOGRAPH	BIOMECHANICAL PREPARATION	OBTURATION
CENTRAL INCISOR				
LATERAL INCISOR				
CANINE				
1 <sup>ST</sup> PREMOLAR				
2 <sup>ND</sup> PREMOLAR				
1 <sup>ST</sup> MOLAR				
2 <sup>ND</sup> MOLAR				



## ROOT CANAL TREATMENT ON EXTRACTED TEETH (MANDIBULAR)

<b>TOOTH</b>	<b>ACCESS OPENING</b>	<b>DIAGNOSTIC RADIOGRAPH</b>	<b>BIOMECHANICAL PREPARATION</b>	<b>OBTURATION</b>
CENTRAL INCISOR				
LATERAL INCISOR				
CANINE				
1 <sup>ST</sup> PREMOLAR				
2 <sup>ND</sup> PREMOLAR				
1 <sup>ST</sup> MOLAR				
2 <sup>ND</sup> MOLAR				



# DIE CUTTING

S.NO				
1				
2				
3				
4				

# MAGNIFICATION EXERCISES

35



## MICRO ENDODONTICS (HAND)

TOOTH	ACCESS OPENING	DIAGNOSTIC RADIOGRAPH	BIOMECHANICAL PREPARATION

### MICRO ENDODONTICS (ROTARY)

TOOTH	ACCESS OPENING	DIAGNOSTIC RADIOGRAPH	BIOMECHANICAL PREPARATION

# PRE-CLINICAL ESTHETIC EXERCISES (UNDER MAGNIFICATION)

## DIRECT COMPOSITE VENEERS

<b>PREPARATION</b>	<b>RESTORATION</b>	<b>FINISHING &amp; POLISHING</b>

## Composite Filling (Class I,II,III & V) -05 (each)

<b>S.NO.</b>	<b>TOOTH NO. WITH TYPE</b>	<b>CAVITY PREP</b>	<b>ETCHING &amp; BONDING</b>	<b>RESTORATION</b>	<b>FINISHING &amp; POLISHING</b>
1.					
2.					
3.					
4.					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

39

## Diastema Closure

<b>S.NO.</b>	<b>TOOTH NO. WITH TYPE</b>	<b>TOOTH PREP</b>	<b>ETCHING &amp; BONDING</b>	<b>RESTORATION</b>	<b>FINISHING &amp; POLISHING</b>
1.					
2.					

40

52

## Angle Buildups

<b>S.NO.</b>	<b>TOOTH NO. WITH TYPE</b>	<b>TOOTH PREP</b>	<b>ETCHING &amp; BONDING</b>	<b>RESTORATION</b>	<b>FINISHING &amp; POLISHING</b>
1.					
2.					



**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi – Meerut Road, Murad Nagar, Ghaziabad

**Department of Conservative Dentistry &  
Endodontics**

**ACADEMIC & CLINICAL  
LOG BOOK  
FOR MDS**



**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

**DEPARTMENT OF CONSERVATIVE DENTISTRY &  
ENDODONTICS**

# **CERTIFICATE**

*This is to certify that*

*Dr ..... has satisfactorily  
completed the required academic work &  
clinical Conservative Dentistry & Endodontics  
practicals prescribed by Chaudhary Charan*

Singh University, Meerut, for the MDS course during the years 2015 to 2018.

**P.G. Guide**

**Head of the Department**

S. No.	Title	
1	Academic work Record	DCI Requirement
	(i) Seminars (ii) Journal Clubs (iii) Case discussions (iv) Scientific paper/ Poster presented (v) Publications (vi) Workshops and Conferences attended (vii) UG teaching / Lectures	15 15 15 2 Each 1 (Before appearing for Final Exam) - 1 per year

2	Clinical case record	
	(i) Restorative dentistry (ii) Endodontics & Post –endodontic restorations	

# INDEX

# ACADEMIC WORK RECORD

## SEMINARS PRESENTED

S. NO.	SEMINAR TOPIC PRESENTED	DATE	SIGNATURE / REMARKS OF H.O.D.
























### SEMINARS ATTENDED

S. NO.	SEMINAR TOPIC ATTENDED	DATE	SIGNATURE / REMARKS OF H.O.D.


### SEMINARS ATTENDED

S. NO.	SEMINAR TOPIC ATTENDED	DATE	SIGNATURE / REMARKS OF H.O.D.




### SEMINARS ATTENDED

S. NO.	SEMINAR TOPIC ATTENDED	DATE	SIGNATURE / REMARKS OF H.O.D.


### SEMINARS ATTENDED

S. NO.	SEMINAR TOPIC ATTENDED	DATE	SIGNATURE / REMARKS OF H.O.D.






























**JOURNAL CLUBS ATTENDED**

<b>S. NO.</b>	<b>ARTICLE DETAILS ATTENDED</b>	<b>DATE</b>	<b>SIGNATURE OF H.O.D.</b>




**JOURNAL CLUBS ATTENDED**

<b>S. NO.</b>	<b>ARTICLE DETAILS ATTENDED</b>	<b>DATE</b>	<b>SIGNATURE OF H.O.D.</b>


**JOURNAL CLUBS ATTENDED**

<b>S. NO.</b>	<b>ARTICLE DETAILS ATTENDED</b>	<b>DATE</b>	<b>SIGNATURE OF H.O.D.</b>


**JOURNAL CLUBS ATTENDED**

<b>S. NO.</b>	<b>ARTICLE DETAILS ATTENDED</b>	<b>DATE</b>	<b>SIGNATURE OF H.O.D.</b>

















<b>S. NO.</b>	<b>PUBLICATION DETAILS IN VANCOUVER STYLE</b>

## **WORKSHOPS / CONFERENCES ATTENDED**










# CLINICAL WORK RECORD



# RESTORATIVE DENTISTRY

**RESTORATIONS WITH SILVER AMALGAM**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH SILVER AMALGAM**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH SILVER AMALGAM**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH SILVER AMALGAM**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH SILVER AMALGAM**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH SILVER AMALGAM**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


































**RESTORATIONS WITH COMPOSITE RESIN/ GIC**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH COMPOSITE RESIN/ GIC**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH COMPOSITE RESIN/ GIC**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>




**RESTORATIONS WITH COMPOSITE RESIN/ GIC**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RESTORATIONS WITH COMPOSITE RESIN/ GIC**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


































**CROWNS – ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**CROWNS – ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**CROWNS – ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**CROWNS – ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**CROWNS – POSTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>











# ENDODONTICS & POST-ENDODONTIC RESTORATIONS

## ROOT CANAL TREATMENT (ANTERIOR TEETH)

S. NO.	DATE	WORK DONE	SIGNATURE
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**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


































**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>




**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>










**ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>
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**RE-ROOT CANAL TREATMENT (ANTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RE-ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RE-ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**RE-ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>












**SINGLE VISIT ROOT CANAL TREATMENT (POSTERIOR  
TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>




**SINGLE VISIT ROOT CANAL TREATMENT (POSTERIOR TEETH)**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>













**MANAGEMENT OF TRAUMATISED TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>






**PRE-FABRICATED POST & CORE IN ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>










### **CAST POST & CORE IN ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


### **CAST POST & CORE IN ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>


**CAST POST & CORE IN ANTERIOR TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>





















**BLEACHING : VITAL & NON –VITAL TEETH**

<b>S. NO.</b>	<b>DATE</b>	<b>WORK DONE</b>	<b>SIGNATURE</b>






## **I.T.S Centre for Dental Studies & Research**

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# **DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**(2021 - 2024)**

## **M.D.S REGULATION, SYLLABUS & CURRICULUM**



## INSTRUCTIONS TO P.G. STUDENTS

1. Students should attend clinics/radiology/other peripheral posting as per schedule. Maintenance of professional decorum in terms of punctuality with regards to their stipulated duties will be highly appreciated.
2. Students will be allowed to start clinical work only after completion of basic exercises.
3. The time allotted for required work should be strictly adhered.
4. Students not progressing as per schedule will have to meet the HOD regarding permission to continue.
5. No leave shall be taken without the permission of the postgraduate guide/HOD
6. Compulsory attendance required for all the exams (written and viva-voce) as per the schedule of institute/department.
7. The topic for the dissertation has to be selected and finalized and thesis protocol submitted within 6 months after commencement of the course. The completed final dissertation should be submitted 6 months before the final MDS examination.
8. The students should submit in detail the entire seminar to the dept as part of learning resource materials. Seminars & Journal clubs shall be conducted according to the prescribed time table. Seminar & Journal club topics shall be displayed in advance on the department notice board. The seminars should be duly typed and its copies submitted to all the staff members & PG's of the Department. Also the seminar should be approved one week before the actual presentation from respective staff member.
9. Learning in postgraduate programme shall be essentially autonomous and self directed.

## **ORAL MEDICINE AND RADIOLOGY**

Oral Medicine is that area of dentistry which involves the diagnosis and primarily non-surgical treatment of diseases of the oral cavity, including the mucosa, salivary glands, and the surrounding structures. These disorders may involve only the oro-facial structures or they may represent oral manifestations of a systemic disease or a complication of its treatment. A second area of Oral Medicine involves the diagnosis and management of oro-facial sensory disorders and chronic facial pain. Lastly, Oral Medicine is involved in the delivery of comprehensive oral health care services for patients with significant medical illness.

The specialty of Dental and Maxillofacial Radiology involves all aspects of medical imaging which provide information about anatomy, function and diseased states, and those aspects of interventional radiology or minimally invasive therapy which fall under the remit of departments of dental radiology.

Since Oral Medicine and Radiology provides an essential link between dentistry and medicine, practitioners in this field must possess a thorough knowledge of basic physiological and pathological mechanisms which contribute to health and disease. Fellow of this discipline requires a good clinical background in order to work in close collaboration with clinical colleagues in other disciplines. He/she should be demonstrably conversant with the basic sciences; the pathological and functional aspects of disease; current clinical practice related to subject; the full range of topics as indicated in this document; the administration, management and medico-legal aspects; and the basic elements of research in oral medicine and radiology. Some of the areas the trainee must gain a practical knowledge include: head and neck gross anatomy, general and oral pathology, general and oral physiology,

neuroanatomy, pharmacology, immunology, anesthesiology, radiology, general and oral medicine, and laboratory diagnostics.

### **GOALS OF THE CURRICULUM**

The goals of postgraduate training in Oral Medicine & Radiology is to train a graduate who will –

- Practice their specialty efficiently, backed by scientific knowledge and skill.
- Exercise empathy and a caring attitude and maintain high ethical standards.
- Continue to develop keen interest in continuing professional education in the specialty and allied specialties irrespective of whether in teaching or clinical practice.
- Willing to share the knowledge and skills with any learner, junior or a colleague.
- To develop the faculty for critical analysis and evaluation of various concepts and views to adopt the most rational approach.

### **OBJECTIVE**

The objective is to train a candidate so as to ensure higher competence in both general and special area of interest and prepare him for a career in teaching, research and specialty practice. A candidate must achieve the highest degree of clinical proficiency in the subject matter and develop competence in research and its methodology as related to oral medicine and radiology.

The above are to be achieved by the time the candidate completes the course. The objectives may be considered as under:

- Knowledge (Cognitive domain)
- Skills (Psycho motor domain)
- Human values, ethical practice and communication abilities

## **KNOWLEDGE**

Theoretical, Clinical and Practical knowledge of all oral mucosal lesions, skeletal involvement of maxillofacial region, diagnostic procedures pertaining to them and latest information of imaging modules.

## **SKILLS AND ATTITUDE**

Three important skills need to be impart in maxillofacial region

- Diagnostic skill in recognition of oral with radiographic diagnosis and their management.
- Research skills in handling scientific problems pertaining to oral treatment.
- Clinical and Didactic skills in encouraging younger doctors to attain learning objectives.

## **HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES**

- Adopt ethical principles in all aspects of practice.
- Professional honesty and integrity are to be focused.
- Patient care is to be delivered irrespective of social status, caste, creed or religion of the patient.
- Develop communication skills in particular and skill to explain various options available in management and to obtain a true informed consent form the patient.
- Provide leadership and get the best out of his team in a congenial working atmosphere.
- Apply high moral and ethical standards while carrying out human or animal research.
- Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed.
- Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

## **TEACHING AND LEARNING ACTIVITIES**

Candidate registered for MDS (Oral Medicine & Radiology) shall pursue the course for a period of three years as a fulltime student. During this period he / she shall take part actively in learning and teaching activities designed by the institution / university. Following activities are desired to be furnished by postgraduate student.

### **Lecture**

Student has to attend didactic lecture in the specialty or allied subjects arranged by college or department. Attendance in integrated lecture by multidisciplinary team on selected topics will be encouraged.

### **Journal Club**

Student is expected to participate actively in journal review that shall be held once in week. The trainee should make presentations from the allotted journals of selected articles and present at least 10 JC's in a year.

### **Seminars**

Seminars shall be held at least twice a week in the department. Trainee is expected to participate actively and enter relevant details in logbook. Each trainee should present at least 5 seminar presentations in each year.

### **Symposium**

Student is encouraged to attend symposiums on topics covering multiple disciplines.

### **Clinical Postings**

Each trainee shall work in the clinics on regular basis to acquire adequate professional skills and competency in managing various cases to be treated by a specialist.

### **Clinico-pathologic Conference / Interdepartmental Conference**

Students are expected to attend and participate in clinico-pathologic or interdepartmental conferences organized by the institute on regular basis.

### **Teaching Skills**

Student is encouraged to take part in undergraduate teaching programmes either in the form of lectures or group discussion.

### **Continuing Dental Education Programmes / Conference / Workshops / Advance Courses**

Student is encouraged to attend above said programmes organized by the department or parent institute or organized by other institute. Trainee is expected to present at least two papers at state / national specialty conference during their training period.

**Rotation & Posting in Other Department**

A student is expected to attend rotating posting in other department as organized by the department during the period of study. This is to bring in more integration between the specialty and allied fields.

**Dissertation / Thesis**

Trainee shall prepare a dissertation based on the clinical or experimental work or any other study conducted by them under the supervision of the Guide.

**COURSE CONTENTS:****PAPER I: APPLIED BASIC SCIENCES****Applied Anatomy**

- a) Gross Anatomy of the Face
  - 1) Muscles of Facial Expression and Muscles of Mastication
  - 2) Facial Nerve
  - 3) Facial Artery
  - 4) Facial Vein
  - 5) Parotid Gland and Its Relations
- b) Neck region
  - 1) Triangles of the Neck with Special Reference to Carotid, Diaphragmatic Triangles and Midline Structures
  - 2) Facial spaces
  - 3) Carotid System of Arteries, Vertebral Artery and Subclavian Arteries
  - 4) Jugular System
  - 5) Internal Jugular

- 6) External Jugular
- 7) Lymphatic drainage
- 8) Cervical Plane
- 9) Muscles Derived form Pharyngeal
- 10) Infratemporal fossa in detail and Temporomandibular Joint
- 11) Exocrine and Endocrine Glands
- 12) Sympathetic Chain
- 13) Cranial Nerves – V, VII, IX, XI & XII
- 14) Parotid
- 15) Thyroid
- 16) Parathyroid
- c) Oral Cavity
  - 1) Vestibule and Oral Cavity Proper
  - 2) Tongue and Teeth
  - 3) Palate – Soft and Hard
- d) Nasal Cavity
  - 1) Nasal Septum
  - 2) Lateral wall of Nasal Cavity
  - 3) Paranasal air sinuses
- e) Pharynx
  - 1) Gross salient features of brain and spinal cord with reference to attachment of cranial nerves to the brainstem
  - 2) Detailed study of the cranial nuclei of V, VII, IX, X, XI, XII
  - 3) Osteology: Comparative study of fetal and adult skull
  - 4) Mandible: Development, ossification, age changes and evaluation of mandible in detail

### **Embryology**

- 1) Development of Face, Palate, Nasal Septum, Nasal Cavity, Paranasal Sinuses
- 2) Pharyngeal apparatus in detail including the floor of the primitive pharynx
- 3) Development of tooth in detail and the age changes
- 4) Development of Salivary Glands
- 5) Congenital anomalies of face must be dealt in detail

**Histology**

- 1) Study of Epithelium of Oral Cavity and the Respiratory tract
- 2) Connective Tissue
- 3) Muscular Tissue
- 4) Nervous Tissue
- 5) Blood Vessels
- 6) Cartilage
- 7) Bone and tooth
- 8) Tongue
- 9) Salivary Glands
- 10) Tonsils, Thymus, Lymph Nodes

**Physiology**

- 1) General Physiology
- 2) Cell
- 3) Body Fluid Compartments
- 4) Classification
- 5) Composition
- 6) Cellular Transport
- 7) RMP and Action Potential

**Muscle Nerve Physiology**

- 1) Structure of a neuron and properties of nerve fibers
- 2) Structure of muscle fibers and properties of muscle fibers
- 3) Neuromuscular transmission
- 4) Mechanism of muscle contraction

**Blood**

- 1) RBC and Hemoglobin
- 2) WBC – Structure and functions
- 3) Platelets – functions and applied aspects
- 4) Plasma Proteins
- 5) Blood Coagulation with applied aspects
- 6) Blood Groups
- 7) Lymph and applied aspects



**Respiratory System**

- 1) Air passages, composition of air, dead space, mechanism of respiratory with pressure and volume changes
- 2) Lung volumes and capacities and applied aspects
- 3) Oxygen and carbon dioxide transport
- 4) Neural regulation of respiration
- 5) Chemical regulation of respiration
- 6) Hypoxia, effects of increased barometric pressure and decreased barometric pressure

**Cardio-vascular System**

- 1) Cardiac Cycle
- 2) Regulation of Heart rate / Stroke volume / Cardiac output / Blood flow
- 3) Regulation of blood pressure
- 4) Shock, Hypertension, Cardiac failure

**Excretory System**

Renal function tests

**Gastro-Intestinal Tract**

Composition, functions and regulation of:

- 1) Saliva
- 2) Gastric juice
- 3) Pancreatic juice
- 4) Bile and Intestinal juice
- 5) Mastication and Deglutition

**Endocrine System**

- 1) Hormones – Classification and mechanism
- 2) Hypothalamic and Pituitary Hormones
- 3) Thyroid Hormones
- 4) Parathyroid Hormones and Calcium Homeostasis
- 5) Pancreatic Hormones
- 6) Adrenal Hormones

**Central Nervous System**

Ascending tract with special reference to Pain pathway

**Special Senses**

## Gustation and Olfaction

**Biochemistry**

- a) Carbohydrates- Disaccharides specifically Maltose, Lactose, Sucrose
  - 1) Digestion of starch / absorption of glucose
  - 2) Metabolism of glucose, especially glycolysis, TCA cycle, gluconeogenesis
  - 3) Blood sugar regulation
  - 4) Glycogen storage regulation
  - 5) Glycogen storage diseases
  - 6) Galactosemia and Fructosemia
- b) Lipids
  - 1) Fatty acids – Essential / Non-essential
  - 2) Metabolism of fatty acids – oxidation, ketone body formation, utilization ketosis
  - 3) Outline of cholesterol metabolism – synthesis and products formed from cholesterol
- c) Protein
  - 1) Amino-acids – Essential / Non-essential, complete / incomplete proteins
  - 2) Transamination / Deamination (Definition with examples)
  - 3) Urea cycle
  - 4) Tyrosine – Hormones synthesis from tyrosine
  - 5) In born errors of amino acid metabolism
  - 6) Methionine and transmethylation
- d) Nucleic Acids
  - 1) Purines / Pyrimidines
  - 2) Purine analogs in medicine
  - 3) DNA / RNA – Outline of structure
  - 4) Transcription / Translation
  - 5) Steps of protein synthesis
  - 6) Inhibitors of protein synthesis
  - 7) Regulations of gene function
- e) Minerals
  - 1) Calcium / Phosphorous metabolism specifically regulation of serum calcium levels
  - 2) Iron metabolism
  - 3) Iodine metabolism

- 4) Trace elements in nutrition
- f) Energy Metabolism
  - 1) Basal metabolism rate
  - 2) Specific dynamic action (SDA) of foods
- g) Vitamins
 

Mainly these vitamins and their metabolic role – specifically vitamin A, Vitamin C, Vitamin D, Thiamin, Riboflavin, Niacin, Pyridoxine

### **Pathology**

- a) Inflammation
  - 1) Repair and Regeneration, Necrosis and Gangrene
  - 2) Role of Complement System in Acute Inflammation
  - 3) Role of Arachidonic Acid and Its Metabolites In Acute Inflammation
  - 4) Growth Factors in Acute Inflammation
  - 5) Role of Molecular Events In Cell Growth And Intercellular Signaling Cell Surface Receptors
  - 6) Role of NSAIDS in Inflammation
  - 7) Cellular Changes in Radiation Injury And Its Manifestations
- b) Homeostasis
  - 1) Role of Endothelium in Thrombogenesis
  - 2) Arterial and Venous Thrombi
  - 3) Disseminated Intravascular Coagulation
- c) Shock
 

Pathogenesis of Hemorrhagic, Neurogenic, Septic, Cardiogenic Shock, Circulatory Disturbances, Ischemic Hyperemia, Venous Congestion, Edema, Infarction
- d) Chromosomal Abnormalities
  - 1) Marfan's Syndrome
  - 2) Ehler's Danlos Syndrome
  - 3) Fragile X Syndrome
- e) Hypersensitivity
  - 1) Anaphylaxis
  - 2) Type II Hypersensitivity

- 3) Type III Hypersensitivity
- 4) Cell Mediated Reaction and Its Clinical Importance
- 5) Systemic Lupus Erythematosus
- 6) Infection and Infective Granulomas
- f) Neoplasia
  - 1) Classification of Tumors
  - 2) Carcinogenesis & Carcinogens – Chemical, Viral and Microbial
  - 3) Grading and Staging Of Cancer, Tumor Angiogenesis, Paraneoplastic Syndrome
  - 4) Spread of Tumors
  - 5) Characteristics of Benign and Malignant Tumors
- g) Others
  - 1) Sex Linked Agamaglobulinemia
  - 2) Aids
  - 3) Management of Immune Deficiency Patients Requiring Surgical Procedures
  - 4) De George's Syndrome
  - 5) Ghon's Complex, Post Primary Pulmonary Tuberculosis – Pathology and Pathogenesis

### **Pharmacology**

- 1) Definition of Terminologies Used
- 2) Dosage and Mode of Administration of Drugs
- 3) Action and Fate of Drugs in the Body
- 4) Drugs Acting on the CNS
- 5) Drug Addiction, Tolerance and Hypersensitive Reactions
- 6) General and Local Anesthetics, Hypnotics, Antiepileptics and Tranquilizers
- 7) Chemotherapeutics and Antibiotics
- 8) Analgesics and Anti-Pyretics
- 9) Anti-Tubercular and Anti-Syphilitic Drugs
- 10) Antiseptic, Sialogogues and Anti-Sialogogues
- 11) Haematinics
- 12) Anti-Diabetics
- 13) Vitamin – A, B-Complex, C, D, E, K
- 14) Steroids

## PAPER – II: ORAL AND MAXILLOFACIAL RADIOLOGY

Study includes Seminars / Lectures / Demonstrations

- 1) History of Radiology, Structure of X-Ray Tube, Production of X-Rays, Property of X-Rays
- 2) Biological Effects of Radiation
- 3) Filtration, Collimation, Grids and Units of Radiation
- 4) Films and Recording Media
- 5) Processing Of Image in Radiology
- 6) Design of X-Ray Department, Dark Room and Use of Automatic Processing Units
- 7) Localization Techniques
- 8) Faults of Dental Radiographs and Concept of Ideal Radiograph
- 9) Quality Assurance and Audit in Dental Radiology
- 10) Extraoral Imaging Techniques
- 11) OPG and Other Radiologic Techniques
- 12) Advanced Imaging Techniques like CT scan, MRI, Ultrasound and Thermography
- 13) Radionuclide Imaging
- 14) Contrast Radiography in Salivary Glands, TMJ and Other Radiolucent Pathologies
- 15) Radiation Protection and ICRP Guidelines
- 16) Art of Radiographic Report, Writing and Descriptors Preferred In Reports
- 17) Radiographic Differential Diagnosis of Radiolucent, Radiopaque and Mixed Lesions
- 18) Digital Radiology and Its Various Types of Advantages

## PAPER – III: ORAL MEDICINE, THERAPEUTIC AND LABORATORY

### INVESTIGATIONS

Study includes Seminars / Lectures / Discussion

- 1) Methods of clinical diagnosis of Oral and Systemic Diseases as applicable to Oral Tissues
- 2) Laboratory Investigations including special Investigations of Oral and Orofacial Diseases
- 3) Teeth in Local & Systemic Diseases, Congenital and Hereditary Disorders
- 4) Oral Manifestations of Systemic Diseases
- 5) Orofacial Pain

- 6) Psychosomatic Aspects of Oral Diseases
- 7) Management of Medically Compromised Patients Including Medical Emergencies in the Dental Chair
- 8) Congenital and Hereditary Disorders involving tissue of Orofacial region
- 9) Systemic Diseases Due to Oral Foci of Infection
- 10) Hematological, Dermatological, Metabolic, Nutritional & Endocrinal Conditions with Oral Manifestations
- 11) Neuromuscular Diseases Affecting Orofacial Region
- 12) Salivary Gland Disorders
- 13) Tongue in Oral and Systemic Diseases
- 14) TMJ Dysfunction and Diseases
- 15) Concept of Immunity as related to Orofacial lesions including AIDS
- 16) Cysts, Neoplasms, Odontomes and Fibro-osseous Lesions
- 17) Oral Changes in Osteo-dystrophies and Chondro-dystrophies
- 18) Pre-malignant and Malignant Lesions of Orofacial Region
- 19) Allergy and Other Miscellaneous Conditions
- 20) Therapeutics in Oral Medicine – Clinical Pharmacology
- 21) Forensic Odontology
- 22) Computers in Oral Diagnosis and Imaging
- 23) Evidence Based Oral Care in Treatment Planning
- 24) Molecular Biology

## **ESSENTIAL KNOWLEDGE**

Basic Medical Subjects – Oral Medicine, Clinical Dentistry, Management of Medical Emergencies, Oral Radiology, Techniques and Inter-operative, Diagnosis of Orofacial Disorders

## **PROCEDURAL AND OPERATIVE SKILLS**

### **1<sup>st</sup> Year**

- a) Examination of Patients
  - Case History Recording – 100
  - FNAC – 50
  - Biopsy – 50
  - Observe, Assist & Perform Under Supervision
- b) Intraoral Radiograph
  - Perform an Interpretation – 500

### **2<sup>nd</sup> Year**

- a) Dental treatment to Medically Compromised Patients
  - Observe, Assist and Perform Under Supervision
- b) Extraoral Radiographs, Digital Radiography – 100
  - Observe, Assist and Perform Under Supervision

### **Operative Skills**

- a) Giving Intra-muscular and Intravenous Injections
- b) Administration of Oxygen and Life Saving Drugs to the Patients
- c) Performing Basic CPR and Certification by Red Cross

### **3<sup>rd</sup> Year**

All the Above

- a) Performed Independently – Case History: Routine Cases – 100
- b) Interesting Cases – 25
- c) Intraoral Radiographs – 100
- d) Periapical View – 100
- e) Bitewing View – 50
- f) Occlusal View – 50
- g) Extraoral Radiographs of Different View – 100

## **MONITORING LEARNING PROGRESS**

It is essential to monitor the learning progress to each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring 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.

## **SCHEME OF EXAMINATION**

### **Theory**

Theory: Part-I: Basic Sciences Paper - 100 Marks

Part-II: Paper-I, Paper-II & Paper-III - 300 Marks (100 Marks for each Paper)

### **DISTRIBUTION OF MARKS:**

Theory : (Total 400 Marks)

(1) Part I University Examination (100 Marks):-

There shall be 10 questions of 10 marks each (Total of 100 Marks)

(2) Part II (3 papers of 100 Marks):-

(i) Paper-I: 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)

(ii) Paper-II: 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)

(iii) Paper III: 2 out of 3 essay questions (50 x 2 = 100 Marks)

Practical and Clinical Examination : 200 Marks

Viva-voce and Pedagogy : 100 Marks

## **ORAL MEDICINE AND RADIOLOGY**

### **Part-I**

Paper I : Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics



## Part-II:

Paper-I : Oral and Maxillofacial Radiology

Paper-II : Oral Medicine, therapeutics and laboratory investigations

Paper-III : Descriptive and analysing type question.

The topics assigned to the different papers are generally evaluated under these sections.

However a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics.

**Practical / Clinical Examination: 200 Marks**

1<sup>st</sup> Day

a) Clinical Case Presentation

2 Spotters	2 x 10 = 20 Marks
2 Short Cases	2 x 15 = 30 Marks
1 Long Case	1 x 50 = 50 Marks
	Total = 100 Marks

b) Radiology Exercise

One Intraoral Radiograph:	10 Marks
One Occlusal Radiograph:	30 Marks
Two Extraoral Radiograph:	2x30 = 60 Marks
Including Technique and Interpretation	

2<sup>nd</sup> Day

Viva Voce: 100 Marks

*Viva-Voce Examination: 80 Marks*

All examiners will conduct viva-voce conjointly on candidate's comprehension, analytical approach, and expression, interpretation of data and communication skills. It includes all components of course contents. It includes presentation and discussion on dissertation also.

*Pedagogy Exercise: 20 Marks*

A topic will be given to each candidate in the beginning of clinical examination. He/She is asked to make a presentation on the topic for 8 – 10 minutes.

### **Branch VII: Oral Medicine and Radiology**

ACADEMIC YEAR OF ADMISSION: \_\_\_\_\_

NAME OF STUDENT: \_\_\_\_\_

DATE OF ADMISSION: \_\_\_\_\_

NAME OF GUIDE: \_\_\_\_\_

NAME OF CO-GUIDE (If any): \_\_\_\_\_

LIBRARY DISSERTATION \_\_\_\_\_

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TITLE OF DISSERTATION \_\_\_\_\_

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### **Bonafide Certification of Work**

This is to certify that this is a bonafide record of the work carried out by Dr. \_\_\_\_\_ in the department of \_\_\_\_\_ during his / her study period of Master of Dental Surgery (Oral Medicine & Radiology) course. He / She has undergone training for MDS course during academic years from \_\_\_\_\_ 20\_\_ to \_\_\_\_\_ 20\_\_

Date \_\_\_\_\_

Head of Department

## CONTENTS

<b>1.</b>	<b>CHECK LIST – 1</b> Evaluation of Journal Review Presentations	
<b>2.</b>	<b>CHECK LIST – 2</b> Evaluation of Seminar Presentation	
<b>3.</b>	<b>CHECK LIST – 3</b> Evaluation of Clinical Work in OPD	
<b>4.</b>	<b>CHECK LIST – 4</b> Evaluation Form the Clinical Case Presentation	
<b>5.</b>	<b>CHECK LIST – 5</b> Evaluation of Teaching Skill	
<b>6.</b>	<b>CHECK LIST – 6</b> Evaluation of Dissertation Presentation	
<b>7.</b>	<b>CHECK LIST – 7</b> Evaluation of Dissertation Work by Guide / Co-guide	
<b>8.</b>	<b>CHECK LIST – 7</b>	

	Overall Assessment Sheet	
<b>9.</b>	<b>Log Book (Table - 1)</b> Academic Activities Attended	
<b>10.</b>	<b>Log Book (Table - 2)</b> Academic Presentation Made by the Trainee	
<b>11.</b>	<b>Log Book (Table - 3)</b> Diagnostic and Operative Procedure Performed	

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**CHECK LIST – 1: Evaluation of Journal Club**

Date \_\_\_\_\_

Name of the Trainee \_\_\_\_\_

Name of the Faculty / Observer \_\_\_\_\_

Topic of the article: \_\_\_\_\_

Author of the article: \_\_\_\_\_

Name of the journal: \_\_\_\_\_

<b>Poor</b>	<b>Below Average</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>
<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

<b>S. No.</b>	<b>Item for Observation during Presentation</b>	<b>Score</b>
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<b>1</b>	Article chosen was	
<b>2</b>	Extent of understanding of scope & objectives of the paper by the candidate	
<b>3</b>	Whether cross-reference have been consulted	
<b>4</b>	Whether other relevant publications consulted	
<b>5</b>	Ability to respond to questions on the paper / subject	
<b>6</b>	Audio – Visual Aids used	
<b>7</b>	Ability to defend the paper	
<b>8</b>	Clarity of Presentation	
<b>9</b>	Any other Observation	
	<b>Total Score</b>	

Signature of Faculty

Signature of HOD

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**CHECK LIST – 2: Evaluation of Seminar Presentations**

Date \_\_\_\_\_

Name of the Trainee \_\_\_\_\_

Name of the Faculty / Observer \_\_\_\_\_

Topic of the seminar \_\_\_\_\_

<b>Poor</b>	<b>Below Average</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>
<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

S. No.	Item for Observation during Presentation	Score
1	Whether other relevant publications consulted	
2	Whether cross-reference have been consulted	
3	Completeness of preparation	
4	Clarity of presentation	
5	Understanding of the subject	
6	Ability to answer the questions	
7	Time scheduling	
8	Appropriate use of Audio-Visual Aids	
9	Overall performance	
10	Any other observation	
	<b>Total Score</b>	

**Signature of Faculty**

**Signature of HOD**

**Soft/hard copy submitted to department library: yes/no**

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**CHECK LIST – 3: Evaluation of Clinical Work in OPD**

(To be completed once in a month by respective Unit Heads including posting in other department)

**Date** \_\_\_\_\_

**Name of the Trainee** \_\_\_\_\_

**Name of the Unit Head** \_\_\_\_\_

<b>Poor</b>	<b>Below Average</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>
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<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
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S. No.	Item for Observation during Presentation	Score
<b>1</b>	Regularity of attendance	
<b>2</b>	Punctuality	
<b>3</b>	Interaction with colleagues and supportive staff	
<b>4</b>	Maintenance of case records	
<b>5</b>	Presentation of cases	
<b>6</b>	Investigations work-up	
<b>7</b>	Chair-side manners	
<b>8</b>	Rapport with patients	
<b>9</b>	Overall quality of clinical work	
	<b>Total Score</b>	

**Signature of HOD**

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**CHECK LIST – 4: Evaluation of Clinical Case Presentation**

**Date** \_\_\_\_\_

**Name of the Trainee** \_\_\_\_\_

**Name of the Faculty / Observer** \_\_\_\_\_

**Case Details:** \_\_\_\_\_

S. No.	Item for Observation during Presentation	Score
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<b>1</b>	Completeness of history				
<b>2</b>	<b>Poor</b>	<b>Below Average</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>
	Whether all relevant points elicited				
<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
	Clarity of presentation				
<b>4</b>	Logical order				
<b>5</b>	Mentioned all positive and negative				
<b>6</b>	Accuracy of general physical examination				
<b>7</b>	Diagnosis: Whether it follows logically from history and examination findings				
<b>8</b>	Investigations required				
	Complete List				
	Relevant order				
	Interpretation of investigations				
<b>9</b>	Ability to react to questioning: Whether it follows logically from history & findings				
<b>10</b>	Ability to defend diagnosis				
<b>11</b>	Ability to justify differential diagnosis				
<b>12</b>	Others				
	<b>Total Score</b>				

Signature of faculty

Signature of HOD

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**CHECK LIST – 5: Evaluation of Teaching Skill**

Date \_\_\_\_\_

Name of the Trainee \_\_\_\_\_

Name of the Faculty / Observer \_\_\_\_\_

<b>Poor</b>	<b>Below Average</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>
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<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
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<b>S. No.</b>	<b>Item for Observation during Presentation</b>	<b>Score</b>
<b>1</b>	Communication of the purpose of the talk	
<b>2</b>	Evokes audience interest in the subject	
<b>3</b>	The introduction	
<b>4</b>	The sequence of ideas	
<b>5</b>	The use of practical examples and / or illustrations	
<b>6</b>	Speaking style (enjoyable, monotonous etc. Specify)	
<b>7</b>	Attempts audience participation	
<b>8</b>	Summary of the main points at the end	
<b>9</b>	Asks questions	
<b>10</b>	Answers questions asked by the audience	
<b>11</b>	Rapport of speaker with his audience	
<b>12</b>	Effectiveness of the talk	
<b>13</b>	Uses of Audio-Visual Aids appropriately	
	<b>Total Score</b>	

**Signature of the Faculty / Observer**

**Signature of HOD**

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**CHECK LIST – 6: Evaluation of Dissertation Presentation**

**Date** \_\_\_\_\_

**Name of the Trainee** \_\_\_\_\_

Name of the Faculty / Observer \_\_\_\_\_

Poor	Below Average	Average	Good	Very Good
0	1	2	3	4

S. No.	Points to be considered	Score
1	Interest shown in selecting topic	
2	Appropriate review	
3	Discussion with guide and other faculty	
4	Quality of protocol	
5	Preparation of Performa	
	<b>Total Score</b>	

Signature of HOD

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DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

**CHECK LIST – 7: Continuous Evaluation of Dissertation work by  
Guide / Co-guide (At least once in 3 months)**

Date \_\_\_\_\_

Name of the Trainee \_\_\_\_\_

Name of the Faculty / Observer \_\_\_\_\_

Period of Evaluation: \_\_\_\_\_ to \_\_\_\_\_

Poor	Below Average	Average	Good	Very Good
0	1	2	3	4

S. No.	Points to be considered	Score
1	Periodic consultation with guide / co-guide	
2	Regular collection of case material	
3	Depth of analysis / discussion	
4	Department presentation of findings	
5	Quality of final output	
6	Others	
	<b>Total Score</b>	

Signature of Co- Guide:

Signature of Guide:

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**CHECK LIST –8: Overall Assessment Sheet**

Date \_\_\_\_\_

Name of the Trainee \_\_\_\_\_

CheckList								
S. No.	Faculty Member	1	2	3	4	5	6	7

Signature of HOD













Key: O – Washed up and observed – initial 6 months of admission

A – Assisted a more senior surgeon – Ist year MDS

PA – Performed procedure under the direct supervision of a senior surgeon – IInd year MDS

PI – Performed independently – IIIrd year MDS

**Signature of HOD**

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
DELHI-MEERUT ROAD MURAD NAGAR, GHAZIABAD**

**DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY**

**TABLE – 3 [PART 4]**

**RADIOGRAPHIC EXERCISES**

Admission Year \_\_\_\_\_

Name of the trainee \_\_\_\_\_

<b>Date</b>	<b>Name</b>	<b>OPD No.</b>	<b>Type of radiograph</b>	<b>Diagnosis</b>	<b>Signature</b>

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**Signature of HOD**

**I.T. S CENTRE FOR DENTAL STUDIES & RESEARCH**  
Delhi-Meerut Road. Murad Nagar, Ghaziabad  
**Department of Oral Medicine & Radiology**

**List of Seminars:**

**MDS 1 Year**

1. Case History
2. Clinical examinations
3. Allergy
4. Muscles of Head and Neck
5. Blood & nerve supply of face.
6. Immunity
7. Blood
8. Cranial nerves.
9. Endocrinology
10. Saliva & Salivary glands
11. Inflammation
12. Healing of oral wounds
13. NSAIDS
14. Antifungals
15. Antibacterials
16. Saliva as diagnostic tool
17. Haemostasis
18. TMJ Anatomy and physiology of movements

19. Antivirals
20. Carcinogenesis

### **MDS II Year**

1. Lab investigation
2. Radiation physics
3. Radiation Biology
4. Corticosteroids
5. Immunomodulators
6. Image receptor in Dentistry
7. Processing of Image in radiology
8. OSMF
9. Leukoplakia
10. OLP
11. Candidiasis
12. Extra oral imaging
13. OFD
14. D/D of Multilocular lesion of the jaw
15. Cysts of Head and Neck region
16. Radiation Protection
17. Digital Imaging.
18. Ideal Radiograph.
19. Radiographic Contrast Agents.
20. Quality Assurance
21. Pemphigus
22. Erythema multiforme and associated syndromes

### **MDS III Year**

1. Forensic Odontology
2. Oral Cancer
3. Immunologically mediated disease
4. CBCT, CT
5. USD , Nuclear Medicine (PET)
6. MRI
7. TMJ

8. Salivary Gland diseases and disorders
9. Imaging of salivary glands.
10. Systemic diseases affected Oral cavity
11. Tongue – a mirror of systemic diseases
12. Implant Imaging
13. Psychosomatic Disorder affecting Head & Neck region
14. D/D of swelling on the angle of the Mandible
15. Midline swelling of Head and Neck region
16. Vesiculo-bullous lesions
17. Pigmented lesions of oral cavity
18. Oro facial pain
19. TML Disorders
20. Geriatric dentistry

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
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**DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY**

**List of Instruments**

- Mouth Mirror
- Curved Probe
- Straight Probe
- Periodontal probe
- Tweezer
- Cotton holder
- Kidney tray
- Magnifying Glass
- Vernier caliper – 1 no.
- Tracing papers & pencil
- Scale
- X – ray films 1. Intra-Oral - 1packet 2. Occlusal – 1packet 3. Extra – Oral - 1packet (8x10inches) 4. OPG – 1packet (6x12inches)
- Digital Camera (Specifications to be provided by the department)
- Laptop (Check for specifications)





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**DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY**

**List of books to be purchased**

Basic books to be purchased by Students

- i) Burkett's Oral Medicine  
Marten S.Green berg  
Michael Glick  
Jonathan A. ship
- ii) Oral Radiology  
Principles & Interpretation  
Stuart C. white  
Michael J.Pharoah
- iii) Differential Diagnosis of Oral & Maxillofacial lesions  
Norman K.wood  
Paul W. Goaz

Students are expected to refer other books from library

# I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

## DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

### List of Books held in the Departmental Library of Oral Medicine

Borrower Barcode	Name	Resource Barcode	Title	Accession	Issued	Due date
D0M	Oral Medicine, Department	004298	Diagnostic Picture tests in Dentistry	004298	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	002803	Textbook of Oral Medicine	002803	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003415	Oral Radiology : Principles and Interpretations	003415	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	001853	Medical Laboratory Technology	001853	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003631	Basic Pathology	003631	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003418	Oral Radiology : Principles and Interpretations	003418	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004685	Dental differential diagnosis	004685	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003615	Oral Histology : Development Structure and Function	003615	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	001677	Orban's Oral Histology and Embryology	001677	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004917	Oral Development and Histology	004917	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004915	Sicher and Dubrul Oral Anatomy	004915	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	000333	Synopsis of Oral Pathology	000333	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	000748	Cysts of the Oral Regions	000748	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004769	Hutchisons Clinical Methods	004769	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004293	Medical emergencies in the Dental office	004293	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004502	Handbook of Local Anesthesia	004502	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004928	Oral Radiology Principles and Interpret	004928	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	004545	Oral pathology	004545	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	005006	Oral and Maxillofacial Pathology	005006	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	001743	Diagnostic Procedures in Dentistry	001743	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003083	Essentials of dental radiology	003083	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	005078	Differential Diagnosis of Oral Lesions	005078	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003442	Oral Radiology : Principles and Interpretations	003442	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	001645	Fundamental of Dental Radiology	001645	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	002152	Fundamental of Dental Radiology	002152	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003422	Oral medicine ; Colour guide	003422	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003403	Principles and practice of oral Medicine	003403	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003427	Atlas of oral diaghstic imaging	003427	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	001158	Textbook of Oral Medicine	001158	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003104	Essentials of Oral Mediciner	003104	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003404	Burket's Oral Medicine Diagnosis and Treatment	003404	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	001145	Oral Medicine : A Pocket Guide	001145	06/10/2005	06/10/2015
D0M	Oral Medicine, Department	003236	A Text Book of Oral Pathology	003236	11/29/2005	11/30/2015
D0M	Oral Medicine, Department	001032	Essentials of Medical	001032	08/22/2006	08/22/2016

			Pharmacology			
D0M	Oral Medicine, Department	006433	Classification of Drugs Including Dosages	006433	08/22/2006	08/22/2016
D0M	Oral Medicine, Department	004938	Burket's Oral Medicine Diagnosis and Treatment	004938	04/30/2007	05/01/2017
D0M	Oral Medicine, Department	003242	A Text Book of Oral Pathology	003242	07/11/2007	07/11/2017
D0M	Oral Medicine, Department	003116	Review of Radiology	003116	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	003117	Review of Radiology	003117	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	003118	Review of Radiology	003118	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	003120	Review of Radiology	003120	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005868	Principles of Practical Oral Medicine ans Patient Evaluation	005868	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005873	Principles of Practical Oral Medicine ans Patient Evaluation	005873	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005874	Principles of Practical Oral Medicine ans Patient Evaluation	005874	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005875	Principles of Practical Oral Medicine ans Patient Evaluation	005875	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005876	Principles of Practical Oral Medicine ans Patient Evaluation	005876	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005879	Principles of Practical Oral Medicine ans Patient Evaluation	005879	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005881	Principles of Practical Oral Medicine ans Patient Evaluation	005881	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002630	Textbook of Medicine Vol.1	002630	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002663	Textbook of Medicine Vol.1	002663	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002729	Clinical Medicine	002729	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002737	Clinical Medicine	002737	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002751	Bedside Clinical Medicine	002751	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002764	Bedside Clinical Medicine	002764	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002754	Bedside Clinical Medicine	002754	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	002767	Bedside Clinical Medicine	002767	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005635	Fundamentals of Fixed Prostodontics	005635	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005640	Fundamentals of Fixed Prostodontics	005640	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005534	Mosby's Dental Dictionary	005534	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	005285	Differential Dignosis	005285	12/08/2007	12/08/2017
D0M	Oral Medicine, Department	007084	Oral Radiology : Principles and Interpretation	007084	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007109	Dental Radiography : Principles and Techniques	007109	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007102	Dental Secrets	007102	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007104	Dental Secrets	007104	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	005870	Principles of Practical Oral Medicine ans Patient Evaluation	005870	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	005878	Principles of Practical Oral Medicine ans Patient Evaluation	005878	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	005073	Differential Diagnosis of Oral Lesions	005073	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	004639	Sicher and Dubruls Oral Anatomy	004639	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007157	Burket's Oral Medicine	007157	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002481	Jaypee's Review of Medicine	002481	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002480	Jaypee's Review of Medicine	002480	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002465	Oral Radiology	002465	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	006697	Oral Pathology Clinical Pathologic Correlations	006697	01/29/2008	01/29/2018

D0M	Oral Medicine, Department	004402	Guide to radiology Procedures	004402	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	004408	Guide to radiology Procedures	004408	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	001146	Fundamental of Dental Radiology	001146	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	004683	Dental differential diagnosis	004683	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002389	Differential Dignosis	002389	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	000552	Surface and Radiological Anatomy	000552	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	005255	Surface and Radiological Anatomy	005255	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002101	Dental Sciences Review Vol.1	002101	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007185	Park's Textbook of Preventive and Social Medicine	007185	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002918	Clinical Radiology	002918	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002919	Clinical Radiology	002919	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002921	Clinical Radiology	002921	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	002914	Clinical Radiology	002914	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007089	Cawson's Essentials of Oral Pathology and Oral Medicine	007089	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007080	Medical Problems in Dentistry	007080	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007082	Oral and Maxillofacial Pathology	007082	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007099	Differential Diagnosis of Oral and Maxillafacial Lesions	007099	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	007096	Fundamentals of Oral Medicine and Radiology	007096	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	005738	Color Atlas of Oral Manifestations of AIDS	005738	01/29/2008	01/29/2018
D0M	Oral Medicine, Department	004170	Burket's Oral Medicine Diagnosis and Treatment	004170	02/13/2008	02/13/2018
D0M	Oral Medicine, Department	005233	Textbook of Oral Medicine	005233	06/12/2008	06/12/2018
D0M	Oral Medicine, Department	005504	Cysts of the Oral Regions	005504	01/09/2009	01/09/2019
D0M	Oral Medicine, Department	001753	De Giuchy's Clinical Heamatology in Medical Practice	001753	01/09/2009	01/09/2019
D0M	Oral Medicine, Department	005000	Park's Textbook of Priventive and Social Medicine	005000	01/09/2009	01/09/2019
D0M	Oral Medicine, Department	007261	Biostatistics: A Manual of Statistical Methods for Use in Health , Nutrition and Anthropology	007261	01/09/2009	01/14/2019
D0M	Oral Medicine, Department	007107	Oral Cancer	007107	01/09/2009	01/14/2019
D0M	Oral Medicine, Department	005723	Oral Diagnosis, Oral Medicine and Treatment Planning	005723	01/09/2009	01/14/2019
D0M	Oral Medicine, Department	006485	A Text Book of Oral Pathology	006485	01/09/2009	01/14/2019

101 loan(s)

I.T.S. Centre for Dental Studies &amp; Res.

**I.T.S. CENTRE FOR DENTAL STUDIES AND RESEARCH**  
**DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD**

List of Books available in Central Library for Department of Oral Medicine, Diagnosis and Medicine

<b>ORAL MEDICINE, DIAGNOSIS &amp; RADIOLOGY</b>			
<b>S.No.</b>	<b>Author</b>	<b>Title</b>	<b>Copies</b>
1	Ahmad, Irfan	Digital and Conventional Dental Photography	1
2	Bailoor, Durgesh	Biopsychosocial Model of Illness and Oral Medicine	1
3	Bailoor, Durgesh N.	Fundamentals of Oral Medicine and Radiology	5
4	Bengel, Wolfgang	Mastering Digital Dental Photography	1
5	Bennett, Jaffrey D.	Medical Emergencies in Dentistry	2
6	Bhatia, M S; Ed.	MCQs in Radiology: Radiodiagnosis and Radiotherapy	5
7	Brand, Richard W	Anatomy of Orofacial Structures	1
8	Bo, Walter J.	Basic Atlas of Sectional Anatomy With correlated Imaging	1
9	Bricker, S.L.	Oral Med.; Oral Diagnosis and Treatment Planning	1
10	Bricker, S.L.	Oral Med.; Oral Diagnosis and Treatment Planning 2Ed.	2
11	Birnbaum, Warren	Oral Diagnosis: The Clinical Guide	1
12	Browne, Roger M	Atlas of Dental & Maxillofacial Radiology and Imaging	2
13	Bumann, Axel	Color Atlas of Dental Medicine : TMJ Disorders and Orofacial Pain	2
14	Cawson, R.A.	Cawson's Essentials of Oral Pathology and Oral Medicine 7/e	3
15	Chapman, Stephen	Guide to Radiological Procedures 4/e	10
16	Craig, David	Practical Conscious Sedation	1
17	Coulthard, Paul	Master Dentistry: O.S, Radio., Pathology: Vol.1; 1st Ed	1
18	Christen, Arden G.	Tobacco and your Oral Health	1
19	Crean, St-John	Clinical Short Answer Questions for PostGraduate Dentistry	1
20	Dayal, Pramod K	Diagnostic Procedures in Dentistry	5
21	Dayal, Pramod K	Textbook of Oral Medicine 1/e	27
22	Dayal, Pramod K	Textbook of Oral Medicine 3/e	10
23	Eversole, Lewis R	Oral Medicine : Pocket Guide 1/e	10
24	Farthing, Charles F	Colour Atlas of Aids and HIV Disease 2/e	2

25	Frommer, Herbert H	Radiology for Dental Auxillaries 6/e	2
26	Frommer, Herbert H	Radiology fo the Dental Professional: 8th Ed	1
27	Gandolfo, S.	Oral Medicine	1
28	Gardner, Alvin F	Dental Examination Review 4/e	10
29	Garkal, G S	Radiology of Positioning and Applied Anatomy 3/e	10
30	Ghom, Anil Govind Rao	T.B. of Oral Medicine	6
31	Goaz, Paul W	Oral Radiology: Principlesand Interpretation 2/e	10
32	Greenberg, Martin S	Burket's Oral Medicine: Diagnosis and Treatment 10th edition	16
33	Greenberg, Martin S.	Burket's Oral Medicine: Diagnosis and Treatment 11/e	5
34	Greenspan, John S.	Oral Manifestations of HIV Infection	1
35	Gupta, L C	Dental Radiology	10
36	Gupta, L C	Dental Differential Diagnosis	10
37	Gupta, L C	Differential Diagnosis 6th edition	15
38	Gupta, L C	Differential Diagnosis 7th edition	6
39	Glick, Michael	What your Dentist does to keep the dental office care	1
40	Halim, A	Surface and Radiological Anatomy 2/e	14
41	Haring, Joen	Dental Radiology: Principles and Techniques 2/e	4
42	Haring, Joen	Dental Radiography : Principles and Techniques 3/e	3
43	Heasman, Peter	Mater Dentistry: Resto. Dentistry, PaediatricDen:Vol.2	1
44	Henry, John Bernard	Clinical diagnosis and Management 17/e	1
45	Henry, John Bernard	Clinical diagnosis and Management 20/e	2
46	Higashi, Tomomitsu	Atlas of Oral Diagnostic Imaging	2
47	Hine, Maynard K	Review of Dentistry: question and Answer 7/e	6
48	Horner, Keith	21th Century Imaging	1
49	Horner, Keith	Interpreting Dental Radiographs	1
50	Isberg, Annika	Temporomandibular Joint Dysfunction : A Practitioner's Guide	1
51	Jacobson, Alexander	Radiographic Cephalometry	1
52	John R, Pramod	Essentials of Oral Medicine	34
53	John R, Pramod	Essentials of Dental Radiology	21
54	John R, Pramod	Handbook of Oral Medicine	1
55	Kapur, V	Essentials of surface and Radiology Anatomy	5
56	Khosla, S N	Medicine of Dental Students	15
57	Langland, O.E.	Principles of Dental Imaging	1
58	Langlais, R. P.	Color Atlas of Common Oral Diseases	1
59	Larheim, T. A	Maxillofacial Imaging	1
60	Laskaris, Geoge	Color Atlas of Oral Diseases	1
61	Lemey, P J	Diagnostic Picture Tests in Dentistry	5
62	Lynch, Malcom A.	Burket's Oral Medicine: Diagnosis and Treatment 9th edition	3
63	Macleod, Iain	Practical Oral Medicine	1
64	Mason, Rita A	Guide to Dental Radiology	3
65	Merdith, W J	Fundamental of Physics Radiology 3/e	2
66	Miyashita, Kunihiro	Contemporary Cephacometric Radiography	1

67	Myers, Eugene	Cancer of the Head & Neck	1
68	Neville, Brad W.	Oral and Maxillofacial Pathology 2/e	2
69	Okeson, Jeffrey	Management of Temporomandibular : Disorders and Occlusion 6/e	2
70	Okeson, Jeffrey	Bell's Orofacial Pain : The Clinical Management of Orofacial Pain 6/e	2
71	Odell, E. W	Biopsy Pathology of the Oral Tissues	1
72	Orell, Svante	Fine Needle Aspiration Cytology: 4th Ed	1
73	Prabhakar, Vikram	Dental Science Review Vol.1	15
74	Prabhakar, Vikram	Dental Science Review Vol.2	15
75	Pramod, John R.	Principles of Practice Oral Medicine and Patient Evaluation	15
76	Raftery, Andrew	Churchill;s Pocket of Differential Diagnosis	3
77	Regezi, Joseph A.	Oral Pathology : Clinical Pathologic Correlations 5/e	1
78	Reichart, Peter A.	Odontogenic Tumors and Allied Lesions	1
79	Reichart, Peter A.	Color Atlas of Dental Medicine: Oral Pathology	1
80	Rout, P G	Self Assessment Picture Test of Oral Radiology	1
81	Rushton, Vivian E.	Panoramic Radiology	1
82	Sadan, Avishai	Quintessence of Dental Technology 2007	1
83	Scully, Crispian	Handbook of Oral Disease: Diagnosis and Management	1
84	Scully, Crispian	Oral and Maxillofacial Medicine	3
85	Scully, Crispian	Medical Problems in Dentistry 5/e	6
86	Scully, Crispian	Special Care In Dentistry	1
87	Sikri, Vimal K	Fundamental of Dental Radiology 2/e	10
88	Sikri, Vimal K	Fundamental of Dental Radiology 3/e	2
89	Silverman, Sol	Oral Cancer 5/e	3
90	Silverman, Sol	Essentials of Oral Medicine	2
91	Soins, Stephen T	Principles and Practice of Oral Medicine 2/e	2
92	Sonis, Stephen T.	Dental Secrets	5
93	Soames, J. V	Oral Pathology : 5th Ed.	1
94	Touger-Decker, Riva	Nutrition and Oral Medicine	3
95	Tyldesley, W R	Oral Medicine 3/e	2
96	White, Stuarts C	Oral Radiology: Principles and Interpretation 4/e	3
97	White, Stuarts C	Oral Radiology: Principles and Interpretation 5/e	19
98	WHO	Basic Physics of Ultrasonographic Imaging	1
99	Wood, Norman K.	Differential Diagnosis of Oral and Maxillofacial Lesions	5
100	Wright, E.F	Manual of Temporomandibular Disorders	1
101	Wray, David	Oral Medicine: Color Guide 1/e	2
		<b>Total Books</b>	<b>467</b>





**I.T.S. CENTRE FOR DENTAL STUDIES AND RESEARCH**  
DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

**INTERNATIONAL JOURNALS**

**Total no. of Foreign Journals being subscribed: 51**

<b>S. No.</b>	<b>Name of the Journals</b>	<b>Since</b>
1	American Journal of Orthodontics	1980
2	Angle Orthodontist	1987
3	Australian Dental Journal	1997
4	Australian Orthodontic Journal	2006
5	British Dental Journal	2000
6	British Journal of Oral and Maxillofacial Surgery	1993
7	British Journal of Plastic Surgery	2006
8	Caries Research	2006
9	Community Dental Health	2008
10	Community Dentistry and Oral Epidemiology	1973
11	Cancer	2009
12	Dental Abstracts	2000
13	Dental Clinics of North America	2003
14	Dental Traumatology	2000
15	Dental Update	2002
16	Dentomaxillofacial Radiology	2005
17	Dental Materials	1993
18	European Journal of Orthodontics	1996
19	Fluoride	1996
20	Implant Dentistry	2009
21	International Dental Journal	2006
22	International Endodontic Journal	1997
23	International Journal of Oral & Maxillofacial Implants	1997
24	International Journal of Paediatric Dentistry	1997
25	International Journal of Prosthodontics	1993
26	Journal of American Dental Association	1990
27	Journal of Clinical Orthodontics	1967
28	Journal of Clinical Periodontology	1997
29	Journal of Dental Research	2001

30	Journal of Dentistry for Children	2007
31	Journal of Endodontics	2000
32	Journal of Esthetic & Restorative Dentistry	2006
33	Journal of Oral Maxillofacial Surgery	1997
34	Journal of Oral Pathology and Medicine	1997
35	Journal of Oral Science	1998

## I.T.S. CENTRE FOR DENTAL STUDIES AND RESEARCH

DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

### INTERNATIONAL JOURNALS

<b>S. No.</b>	<b>Name of the Journals</b>	<b>Since</b>
36	Journal of Orofacial Pain	2001
37	Journal of Orthodontics	2000
38	Journal of Periodontal Research	2000
39	Journal of Periodontology	1985
40	Journal of Prosthodontics	1992
41	Journal of Prosthodontics Dentistry	1984
42	Lancet	2009
43	Operative Dentistry	2002
44	Oral and Maxillofacial Clinics of North America	2002
45	Oral Diseases	2001
46	Oral Health and Preventive Dentistry	2008
47	Oral Microbiology and Immunology	1999
48	Oral Surgery, Oral Medicine, Oral Path., Oral Radiology and Endodontics	1999
49	Paediatric Dentistry	2006
50	Periodontology 2000	2000
51	WHO Public Health Incl WHO Bulletin Technical Report Series & World Health	2008



**I.T.S. CENTRE FOR DENTAL STUDIES AND RESEARCH  
DELHI-MEERUT ROAD, MURAD NAGAR,  
GHAZIABAD-201206**

**List of e-dental Journal**

<b>S.No.</b>	<b>TITLE OF THE JR.</b>	<b>AVAILABILITY</b>
1	American Journal of Orthodontics & Dentofacial Orthopedics	1980-2006
2	Archives of Oral Biology	1995-2006
3	Atlas of Oral & Maxillofacial Surgery Clinics of North America	2002-2006
4	Australian Endodontic Journal	2006
5	Oral & Maxillofacial Surgery Clinics of North America	2002-2006
6	The Angle Orthodontist	1987-2003
7	British Journal of Orthodontics	1997-2003
8	British Dental Journal	2006
9	British Journal of Oral & Maxillofacial Surgery	1993-2006
10	Clinical Oral Implants Research	1997-2006
11	Community Dentistry & Oral Epidemiology	1973-2007
12	Dental Abstracts	2005-2006
13	Dental Materials	1993-2006
14	Dental Traumatology	2000-2003
15	European Journal of Cancer. Part B: Oral Oncology	1995-1997
16	European Journal of Orthodontics	1996-2006
17	Endodontic Topics	2002-2005
18	European Journal of Dental Education	2000-2006
19	European Journal of Oral Sciences	1998-2006
20	Facial Plastic Surgery Clinics of North America	2002-2005
21	Gerodontology	1997-2006
22	International Journal of Oral & Maxillofacial Surgery	1993-2006
23	International Endodontic Journal	1997-2006
24	International Journal of Dental Hygiene	2003-2006
25	International Journal of Paediatric Dentistry	1997-2006
26	International Journal of Prosthodontics	2001-2006
27	International Journal of Periodontics & Restorative Dentistry	2001-2006
28	International Journal of Oral & Maxillofacial Implants	1997-2006
29	Journal of Cranio-Maxillofacial Surgery	1999-2006
30	Journal of Dentistry	1995-2006
31	Journal of Evidence based Dental Practice	2001-2006
32	Journal of Oral & Maxillofacial Surgery	1997-2006
33	The Journal of Prosthetic Dentistry	1996-2006
34	Journal of Clinical Periodontology	1997-2006
35	Journal of Oral & Pathology Medicine	1997 & 2000-2006

36	Journal of Oral Rehabilitation	1996-2006
37	Journal of Periodontal Research	2000-2006
38	Journal of Prosthodontics	1992-2006
39	Journal of Public Health Dentistry	1997-2008
40	Journal of Adhesive Dentistry	2002-2006
41	Journal of Orofacial Pain	2001-2006
42	Journal of Clinical Orthodontics	1967-2003
43	Journal of Periodontology	1985-1998
44	Journal of American Dental Association	1990-1997
45	Oral Oncology	1997-2006
46	Oral Oncology Extra	2004-2006
47	Oral Surgery, Oral Medicine, Oral Pathology Oral Radiology etc.	1996-2006
48	Orthodontic Waves	2006
49	Oral Diseases	2001-2006
50	Oral Microbiology & Immunology	1999-2006
51	Orthodontics & Craniofacial Research	2000-2006
52	Periodontology 2000	2000-2006
53	Progress in Orthodontics	2001-2002
54	Seminars in Orthodontics	1995-2006
55	World Journal of Orthodontics	2000-2005

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi-Meerut Road, Murad Nagar, Ghaziabad 201206

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[www.itsdentalcollege.com](http://www.itsdentalcollege.com)

E-mail: [dental.gzb@its.edu.in](mailto:dental.gzb@its.edu.in)

**DEPARTMENT OF ORAL & MAXILLOFACIAL  
PATHOLOGY & MICROBIOLOGY****M.D.S  
REGULATION, SYLLABUS & CURRICULUM**

I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

**Department of Oral & Maxillofacial Pathology & Microbiology**

ACADEMIC SETUP  
&  
FACULTY

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi-Meerut Road, Murad Nagar, Ghaziabad

Prof. Devi Charan Shetty -Principal & HOD  
[Oral Pathology]

**HEAD OF THE DEPARTMENTS:**

Prof. Upasana Sethi Ahuja - Oral Medicine & Radiology  
Prof. Sonali Taneja - Conservative Dentistry & Endodontics  
Prof. Sumit Malhotra - Periodontics  
Prof. Soorya Poduwal - Prosthodontics  
Prof. Payal Sharma - Orthodontics  
Dr. Ritu Gupta - Community Dentistry  
Prof. Rahul Kashyap - Oral Surgery  
Prof. Shivani Mathur - Pedodontics and Preventive Dentistry



**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi-Meerut Road, Murad Nagar, Ghaziabad

**Department of Oral & Maxillofacial Pathology & Microbiology****FACULTY**

Professor & HOD	-	Dr. Devi Charan Shetty
Professor	-	Dr. Saurabh Juneja
Readers	-	Dr. Anshi Jain
	-	Dr. Nikita Gulati
Senior Lecturer	-	Dr. Meenakshi Singhal

I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

**Department of Oral & Maxillofacial Pathology & Microbiology**

# INTRODUCTION TO DEPARTMENTS

## **SPECIALITIES FOR THE MDS DEGREE**

- I. Prosthodontics, Crown and Bridge, Aesthetic Dentistry and Oral Implantology
- II. Periodontology and Oral Implantology
- III. Oral Maxillofacial Surgery & Oral Implantology
- IV. Conservative, Endodontics and Aesthetic Dentistry
- V. Orthodontic & Dentofacial orthopedics
- VI. Oral Pathology, Microbiology & Forensic Odontology
- VII. Public Health Dentistry
- VIII. Pedodontics & Preventive Dentistry
- IX. Oral Medicine & Radiology

### **OVERVIEW OF VARIOUS SPECIALTIES**

#### **1. Prosthodontics, Aesthetic Dentistry and Oral Implantology**

The branch of Dental art and science pertaining to be restoration and maintenance of oral function, health, comfort and appearance by the replacement of missing or lost natural teeth and associated tissues either by fixed or removable artificial substitutes.

#### **2. Periodontology and Oral Implantology**

Periodontology and oral Implantology is the science dealing with the health and diseases of the investing and supporting structure of the teeth and oral mucous membrane.

#### **3. Oral Maxillofacial Surgery & Oral Implantology**

Oral & Maxillofacial Surgery & Oral Implantology deals with the diagnosis and surgical intervention in diseases, injuries and defects of the human jaws and associated oral and facial structures.

#### **4. Conservative, Endodontics and Aesthetic Dentistry**

Conservative Dentistry deals with prevention and treatment of diseases and injuries of the hard tissues and the pulp of the tooth and associated periapical lesions.

#### **5. Orthodontics & Dento-facial Orthopedics**

Deals with prevention and correction of oral anomalies and malocclusion and the harmonizing of the structures involved, so that the dental mechanism will function in a normal way.

#### **6. Oral Pathology, Microbiology & Forensic Odontology**

Oral pathology deals with the nature of oral diseases, their causes, processes and effects. It relates the clinical manifestation of oral diseases to the physiologic and anatomic changes associated with these diseases.

#### **7. Public Health Dentistry**

Community Dentistry is the science and art of preventing and controlling, dental diseases and promoting Dental health through organized community efforts.

#### **8. Pedodontics and Preventive Dentistry**

Deals with prevention and treatment of oral and Dental ailments that may occur during childhood.

#### **9. Oral Medicine and Radiology**

Oral Medicine is that specialty of dentistry concerned with the basic diagnostic procedures and techniques useful in recognizing the diseases of the oral and para-oral tissues of local and constitutional origin and their medical management.

Radiology is a science dealing with x-rays and their use in diagnosis and treatment of diseases in relation to orofacial structure.

I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

**Department of Oral & Maxillofacial Pathology & Microbiology**

# INSTRUCTIONS FOR P.G STUDENTS

### **INSTRUCTIONS TO THE P.G. STUDENTS**

1. The course shall have duration of 3 years i.e. 6 semesters.
2. They should possess all the required armamentarium necessary for "BASIC EXERCISES" as they enter the department.
3. The time given for the basic exercises should be strictly adhered, failing which bad remarks shall be entered in their personal files.
4. The student should submit in detail all the seminars to the department as part of learning resource material.
5. A written and practical test will be conducted at regular intervals at the end of semester.
6. No leave shall be taken without the permission of the post -graduate guide/ HOD.
7. Students will be allowed to start clinical work only after the completion of the basic exercises.
8. Students not progressing as per schedule will have to meet the HOD regarding permission to continue.
9. Students should attend clinics as per schedule.
10. The topic for the final dissertation has to be selected and finalized and completed within 5 months after commencement of the course i.e. 31<sup>st</sup> October 2019 and the completed final dissertation should be submitted 6 months before the final MDS examination (i.e.31 October 2021).
11. Seminars and Journal club shall be conducted according to the prescribed time table. Seminar and Journal club topics shall be displayed in advance on the department notice board. The seminars should be duly typed and its copies submitted to all the staff members and P.G's of the department. Also the seminar should be approved one week before the actual presentation from respective staff member.
12. Learning in post -graduate program shall be essentially autonomous and self directed.

I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

**Department of Oral & Maxillofacial Pathology & Microbiology**

GOALS  
&  
OBJECTIVES  
FOR POST GRADUATES

## **Goals & Objective of MDS course**

### **Goals:**

The goals of postgraduate training in various specialties is to train B. D. S. graduates who will, after successful completion of the course:

- Practice respective speciality efficiently and effectively, backed by scientific knowledge and skill.
- Exercise empathy and a caring attitude and maintain high ethical standards.
- Continue to evince keen interest in continuing professional education in the speciality and allied specialities irrespective of whether in teaching or practice.
- Willing to share the knowledge and skills with any learner, junior or a colleague.
- Develop the faculty for critical analysis and evaluation of various concepts and views, to adopt the most rational approach.

### **Objective:**

The objective is to train a candidate so as to ensure higher competence in both general and special area of interest and prepare him for a career in teaching, research and specialty practice. A candidate must achieve a high degree of clinical proficiency in the subject matter and develop competence in research and its methodology as related to the field concerned.

**The above objectives are to be achieved by the time the candidate completes the course.**

**The objectives may be considered as under –**

1. Knowledge ( Cognitive domain)
2. Skills (Psycho motor domain)
3. Human values, ethical practice and communication abilities

### **Knowledge:**

- Demonstrate understanding of basic sciences relevant to specialty.
- Describe etiology, pathophysiology, principles of diagnosis and management of common problems within the specialty in adults and children.
- Identify social, economic, environmental and emotional determinants in a given case and take them into account for planning treatment.
- Recognize conditions that may be outside the area of specialty / competence and to refer them to appropriate specialists.



- Update knowledge by self study and by attending courses, conferences and seminars relevant to specialty.
- Undertake audit, use information technology and carryout research both basic and clinical with the aim of publishing or presenting the work at various scientific gatherings.

**Skills:**

1. Take a proper clinical history, examine the patient, perform essential diagnosis procedures and order relevant test and interpret them to come to a reasonable diagnosis about the condition.
2. Acquire adequate skills and competence in performing various procedures as required in the specialty.

**Human values, ethical practice and communication abilities:**

- Adopt ethical principles in all aspects of practice.
- Professional honesty and integrity are to be fostered.
- Patient care is to be delivered irrespective of social status, caste, creed or religion of the patient.
- Develop communication skills, in particular and skill to explain various options available in management and to obtain a true informed consent from the patient.
- Provide leadership and get the best out of his team in a congenial working atmosphere.
- Apply high moral and ethical standards while carrying out human or animal research.
- Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed.
- Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

# I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

## Department of Oral & Maxillofacial Pathology & Microbiology

### COURSE OUTLINE

**DEFINITION:** Oral & Maxillofacial Pathology and Microbiology deals with the nature of oral diseases, their causes, pathologic processes and effects. It relates to the clinical manifestations of Oral diseases to the physiologic and anatomic changes associated with these diseases.

#### **Objectives :**

- To train a graduate dental surgeon so as to ensure higher competence in both general and special pathology dealing with the nature of oral diseases, their causes, processes and effects.
- An oral pathologist is expected to perform routine histopathological evaluation of specimens relating to oral and perioral tissues, to carry out routine diagnostic procedures including hematological, cytological, microbiological, immunological and ultra structural investigations.
- He/She should also be capable of advising the attendant clinicians regarding the clinico-pathologic aspects of the disease, special investigations as and when necessary and help in the interpretation of collected data.
- He/She is expected to have an understanding of current research methodology, collection and interpretation of data, ability to carry out research projects on clinical and or epidemiological aspects, a working knowledge on current databases, automated data retrieval system, referencing and skill in writing scientific papers.
- He/She is expected to present scientific data pertaining to the field, in the conferences both as poster and verbal presentations and to take part in group discussions etc.

#### ***Broad outline of theoretical, clinical and practical courses***

1. Study of principles of routine and special techniques used for histopathology including principles of histochemistry, immunohistochemistry, applied and theoretical biochemical basis of histochemistry as related to Oral Pathology.
2. Advanced histological and histopathological study of dental and oral tissues including embryonic considerations, clinical considerations, biology, histology, Pathology, prognosis and management of Oral oncology. Concepts of oral premalignancy.
3. Study of special and applied pathology of oral tissues as well as relation of local pathologic and clinical findings to systemic conditions.
4. Oral microbiology and their relationship to various branches of dentistry.
5. Oral microbiology affecting hard and soft tissues. Study of clinical changes and their significance to dental and oral diseases as related to oral pathology.
6. Forensic odontology.
7. Inter institutional postings such as cancer hospital dermatology clinics, regional HIV detection centers, sophisticated instrumentation centers for electron microscopy and other techniques.

8. Maintenance of records of all post graduate activities.
9. Library Dissertation.
10. University Dissertation/ Thesis.

I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

**Department of Oral & Maxillofacial Pathology & Microbiology**

# ACADEMIC SYLLABUS AS PER DCI REGULATIONS

# I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

Delhi-Meerut Road, Murad Nagar, Ghaziabad

## Department of Oral & Maxillofacial Pathology & Microbiology

I year MDS Students

### Module I – A (Duration 6 Months)

#### Applied Basic Sciences

#### 1. **Bio-statistics & Research Methodology**

- Study of bio-statistics as applied to dentistry and research. Definition, aim, characteristics and limitations of statistics.
- Planning of statistical experiments, sampling, collection, classification and presentation of data (tables, graphs, pictograms etc.), analysis of data.
- Introduction to bio-statistics : scope and need for statistical application to biological data.
- Definition of selected terms-scale of measurements related to statistics. Methods of collecting data. Presentation as statistical diagrams and graphs.
- Frequency curves, means, mode and media. Standard deviation and co-efficient of variation, Correlation coefficient and its significance. Binomial distributions, Normal distribution, tests of significance.
- Research methodology

#### 2. **Applied Gross Anatomy of Head & Neck & General Physiology :**

Topics as relevant to Oral Pathology Course.

Embryology:

- Development of face, palate, mandible, maxilla, tongue
- Development of teeth and different tissues, its clinical implications
- Muscles of the maxillofacial region
- Nerve supply, blood supply, lymphatic drainage
- Tongue
- Salivary glands, TMJ
- Maxillary sinus

General Physiology

- Pain, saliva, mastication, taste, deglutition, wound healing, vitamins
- Calcium and phosphorus metabolism
- Theories of mineralization, tooth eruption and shedding, hormones, blood

#### 3. **Cell Biology**

Detailed study of structure and function of the mammalian cell with special emphasis on ultra structural features and molecular aspects. Detailed consideration of intercellular junctions. Cell cycle and division, cell cycle regulators, cell to cell and cell-extra cellular matrix interactions.

#### 4. **Histology (General) – Light microscopic and electron microscopic considerations :**

- Histology of epithelial tissues including glands.

- Histology of general and specific connective tissue including bone.
- Haematopoietic system, lymphatic system etc.
- Muscle and neural tissues
- Digestive system with special reference to stomach, intestine, liver, pancreas etc.
- Urinary system including kidney etc.
- Endocrinal system including thyroid.

#### **5. Biochemistry (General)**

- Chemistry of carbohydrates, lipids and proteins.
- Methods of identification and purification.
- Metabolism of carbohydrates, lipids and proteins
- Biologic oxidation
- Various techniques applied including cell filtration Centrifugation, electrophoresis, spectrophotometer and radioactive techniques.

#### **6. Pathology (General) -**

- Pathogenic mechanism at a molecular level
- Cellular changes following injury – Degeneration, Necrosis & Repair.
- Inflammation and chemical mediators.
- Oedema, Thrombosis & Embolism.
- Haemorrhage & Shock
- Blood Dyscrasias
- Neoplasia in detail
- Degeneration

#### **7. Microbiology (General) – General aspects including molecular structure of selected organisms.**

- Bacteriology .
- Mycology
- Virology
- Parasitology

#### **8. Basic Immunology -**

- Cell mediated and humoral immunity
- Antigen – Antibody reactions
- Graft versus Host reaction, Autoimmunity
- Molecules and their mechanisms involved in defence.

**Module – I – B (Duration 6 months)**

**9. Oral Biology (Oral and Dental Histology including Embryology & Oral Physiology)**

Detailed structural and functional study of the oral, dental and Para Oral tissues with emphasis on ultra structure, molecular and biochemical aspects.

Development of Oral and Para Oral tissues including detailed aspects of tooth, dental hard tissues formation etc.

Study of Morphology of permanent & deciduous teeth

Applied aspects – influence of hormones, nutrients etc. on growth, development & structure of Oral Soft and Hard tissues & Para Oral tissues.

**10. Basic Molecular Biology and Genetics -**

- Detailed molecular aspects of DNA, RNA, golgi apparatus, endoplasmic reticulum and other intracellular organelles, transcription and translation, plasmids and molecular biology techniques. Experimental aspects include: DNA extraction. PCR. Western blotting etc.

**11. Basic Histo Techniques and Microbiology –**

- Theoretical aspects of Microscopy – Light and various other types including electron microscopy.
- Methods of tissue preparation for:- Ground & decalcified sections, light microscopy and electron microscopy.
- Routine staining procedures & theory of staining.

## **Second Year MDS**

### **Module – II**

#### **1. Library dissertation**

Satisfactory completion of library dissertation by the end of six months

**2. Clinical Pathology** including laboratory investigations- hematology, microbiology and urine analysis

#### **3. Commencement of final dissertation**

#### **4. Specialized histo techniques & Special Stains.**

- Special staining techniques for different tissues.
- Histo-chemistry
- Immuno staining
- Frozen Sections staining
- Cytological techniques.

#### **5. Dermatology**

Study of mucocutaneous lesions with oral manifestations – etiopathogenesis, pathology, clinical presentations and diagnosis.

#### **6. Oral Oncology**

Detailed study (including pathogenesis, molecular & biochemical considerations) of various tumours, tumour like lesions and premalignant lesions affecting the hard & soft tissues of oral & para-oral regions.

#### **7. Oral Microbiology and Immunology :**

Study of detailed structure of oral bacteria with molecular & biochemical considerations, microbial genetics and Immunological mechanisms. Detailed study of infections of Oral & Para-Oral regions with emphasis on tropical diseases.

#### **8. Forensic Odontology**

Legal procedures like inquest, medico-legal evidences, postmortem examination of violence around mouth & neck, identification of deceased individual – dental importance. Bite marks, reggae patterns & Lip prints.



**Third Year MDS****Module – III****Other Topics in Oral Pathology.**

1. Developmental disturbances of dental, oral and para oral structures including hereditary disorders.
2. Dental caries
3. Pulpal and periapical pathosis and their sequelae.
4. Environmental lesions of the oral and para oral structures.
5. Defence mechanisms of oral tissues and healing following injuries.
6. Diseases of periodontium.
7. Effects of nutritional disturbances on oral and para oral structures.
8. Non-inflammatory, non neoplastic disorders of the orofacial bones.
9. Cysts of oral and para oral tissues.
10. Oral Premalignant lesions and conditions
11. Neoplasms of oral tissues.
12. Diseases of salivary glands.
13. Diseases of Temporomandibular joint
14. Diseases of nerves, blood and their implications to oral tissues.
15. Effects of radiation on oral and para oral tissues.
16. Infections of oral and para oral tissues.
17. Immunology related to oral diseases.
18. Diseases of maxillary antrum.
19. Changes of teeth regressive
20. Detailed description of diseases affecting oral mucosa, teeth, supporting tissues & jaws.
21. Systemic diseases affecting oral cavity.
22. Experimental aspects of oral diseases –
23. Recent advances in Oral Pathology.

**Forensic Odontology:**

Learning through seminars & Journal club presentations and discussions

Practical:

1. Analysis of ante-mortem records
2. Making of impressions and cast examinations
  - a. Charting of cast
  - b. Rugoscopy
  - c. Photography
3. Learning of radiographic techniques for age estimation
4. Bite mark examination
5. Cheiloscopy

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

**Department of Oral & Maxillofacial Pathology & Microbiology**

**LIBRARY  
&  
E-FACILITIES**

**I.T.S CENTRE FOR DENTAL STUDIES AND RESEARCH**  
DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

**LIBRARY STATISTICS**

<b>Total No. of Books</b>	<b>10012</b>
<b>Total No. of Titles</b>	<b>1979</b>
<b>Total No. of Reference Books</b>	<b>2280</b>

S. No.	Subject	No. of Title	No. of Books
1	Human Anatomy, Embryology, Osteo & Histology	128	1142
2	Physiology	50	450
3	Bio-Chemistry	46	349
4	Pharmacology	73	488
5	Pathology	55	359
6	Microbiology	54	289
7	General Medicine	55	500
8	General Surgery	81	416
9	Dental Material	26	310
10	Community Dentistry	141	603
11	Conservative Dentistry & Endodontics	150	750
12	Oral Pathology & DA, DH	161	879
13	Oral & Maxillofacial Surgery	160	669
14	Orthodontics	116	407
15	Oral Medicine, Diagnosis & Radiology	143	667
16	Periodontics	117	429
17	Prosthodontics	160	523
18	Pedodontics	133	491
19	General Medical/ Dental Books	130	291
<b>Total</b>		<b>1979</b>	<b>10012</b>

**Journals subscribed**

Total No. of International Journals being subscribed		37
Total No. of National Journals being subscribed		26
<b>Total</b>		<b>63</b>

**Total No. of e-Dental Journals**

1	EBSCOhost (Total no. of Journals )		265
2	ADC Dental (Total no. of Journals )		61
<b>Total</b>			<b>326</b>

Total No. of CD's & Floppies [Books]	765
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## I.T.S. CENTRE FOR DENTAL STUDIES & RESEARCH

Delhi-Meerut Road, Murad Nagar, Ghaziabad

### LIST OF BOOKS FOR ORAL PATHOLOGY

S.No	Author/Editor	Title of the Book	Edition/Year	Publisher	No. of Copies	Accession No.
2	Abhaya, Indrayan	Medical Biostatistics	1st	Marcel Dekker	2	6898, 6899
3	Agni, Nisheet Anant	Salivary Gland Pathologies	1st	Jaypee Brothers	1	8446
4	Alberts, Bruce	Molecular Biology of the CELL 4/e	4th	Garland Science	2	6816, 7207
5	Ananthanarayana	Panikar's Text Book of Microbiology	1st	Orient Longman	2	6824, 6825
6	Anderson, William	Boyd's Pathology for the Surgeons	8th	Kothari book	2	8930, 8932
7	Ash, Major M	Wheeler's Dental Anatomy, Physiology and Occlusion; 6/e(12), 7/e(24), 8/e(8), 9/e(02) SAE (12)	6th, 7th, 8th, 9th, 1st SAE	Elsevier	58	4759, 9468, 8680, 6671, 6100, 6101, 6764, 1076-1085, 9381, 1086, 1087, 1236-1245, 1955-1964, 9423, 9989, 9289-9298, 9455, 9456
8	Avery, James k.	Essentials of Oral Histology and Embryology 2/e	2nd	Mosby	4	4913, 6585, 6586, 7249
9	Avery, James k.; Ed.	Oral Development and Histology	1st, 2nd, 3rd	B.C. Decker Elsevier	7	4637, 1060, 1061, 4917, 5003, 6550, 6229
10	Bancroft, John D.	Theory and Practice of Histological Technique; 5/e(1), 6/e(3)	5th, 6th	Churchill Livingstone	4	4734, 6813, 7697, 7698,
11	Berg, Jeremy M.	Biochemistry	1st	WH Freeman	1	7032

12	Berkovitz, B K B	Color Atlas and Text of Oral Anatomy Histology and Embryology 2/e	2nd	Wolfe Medical	1	1511
13	Berkovitz, B K B	Oral Anatomy, Histology and Embryology; 3/e(7), 4/e(3)	3rd, 4th	Edinburgh, Mosby	10	4831,4830, 4488, 4489, 5223, 5964, 5965, 7854, 7855, 5965
14	Bhalajhi, S I	Dental Anatomy, Histology and Development: Graphic Manual 1/e(30), 2/e(2)	1st ,2nd	Arya Medi	32	1601-1610, 1878-1887, 2107-2112, 1056-1057, 6573, 6102
15	Bhaskar, S N Kumar, GS	Orban's Oral Histology and Embryology; 10/e(17), 11/e(30), 12/e(10), 14th ed (12)	10th, 11th, 12th, 14th	Elsevier	70	1676-1685, 6103-6108, 1246-1250, 4549-4555, 6061,8669, 9465,462, 8557,7393, 7351,9377, 1826-1835, 7274-7278, 7618-7622, 9264-9273, 9457,9458, 9772,463
16	Bhasker, S N	Synopsis of Oral Pathology 7/e	7th	CBS Publishers	21	333, 1701-1705, 2501-2515
17	Bhende, Y.M	General Pathology Vol.1 & Vol.2	4th	Popular Prakashan	1	1819, 1820
18	Bibbo, Marluce	Comprehensive Cytopathology	2nd	W.B. Saunder	2	6901, 6902
19	Biviji, A T	Dental Anatomy 1/e	1st	Bhalani Pub	5	1315-1319
20	Bradley, Robert M.	Essentials of Oral Physiology	1st	Mosby	1	6815
21	Brand	Anatomy of Oralfacial Structures 6/e	6th	Mosby	2	4490-4491
22	Burkhardt, A.	A Colour Atlas of Oral Cancers	1st	Medical Pub	1	5883
23	Burkitt, H.G.	Wheater's Basic Histopathology 3/e	3rd	Churchill	1	2008
24	Carlson, E. R.	T.B. & Color Atlas of Salivary Gland Pathology	1st	Wiley-Blackwell	1	7387
25	Cawson, R A	Oral Disease : Clinical &	3rd	Mosby	1	5224

		Pathology Correlation				
26	Cawson, R A	Essentials of Oral Pathology and Oral Medicine; 6/e(3), 7/e(9)	6th, 7th	Churchill Livingston	12	1176,1954, 3281,4936, 4425,4643 4911-4912 4983-4986, 7089-7091,
27	Cawson, R A	Lucas's Pathology of Tumors of the Oral Tissues 5/e	5th	Churchill Livingstone	1	1510
28	Cawson, R A	Oral Pathology: Color Guide 2/e	2nd	Churchill Livingstone	1	3443
29	Cho, C.H.	Alcohol Tobacco and Cancer	1st	Karger	1	6875
30	Curran, R.C.	Curran's Atlas of Histopathology 3/e, (1) 4/e(8)	3rd, 4th	Harvey Miller	9	1875,2015, 6369-6370, 3666-3670
31	Das, Arup K	Dental Anatomy and Oral Histology 1/e	1st	Current Book	22	1015,9417, 1063-1072, 1226-1235
32	Delves Peter J.	Roitt's essential immunology	12th	Ahuja Publishing	1	8,631
33	Devita, Vincent T	Cancer: Principles & Practice of Oncology; 2Vol.	8th	Lippincott Williams and Wilkins	2	7499, 7500
34	Dey, N.C.	A Text Book of Pathology 15/e	15th	New central	4	1062, 1532, 6305,6306
35	Douglas R,Gnepp	Diagnostic Surgical Pathology of the Head And Neck	2nd	Elsevier, Saunder	1	8101
36	DuBrul, E Lioyd	Sicher and DuBrul's Oral Anatomy 8/e	8th	N.D. AITBS	17	708,4989, 4990, 1870-1872, 6098,6099, 4914-4916, 1995-1998, 4638, 4639
37	Elder, David E.	Lever's Histopathology of the Skin 9/e	9th, 10th	Lippincott Williams and Wilkins	3	6819,8583, 8633
38	Ellis	Surgical Pathology of Salivary Gland Tumors	1st		1	7159
39	Eroschenko, Victor P	Diffore's Atlas of Histopathology With Functional Corelation 12 <sup>th</sup> ed.	12th	Wolters Kluwer	1	8635
40	Eversole,Lewin R	Clinical Outline of Oral Pathology: Diagnosis & Teatment; 3/e	3rd	B.C. Deekar Elsevier	2	7851, 7852

41	Eveson, John W	Color Atlas of Oral Pathology	1st	Mosby-Wolfe	4	4972, 3444, 3548,3549
42	Field, Anne	Tyldesley's Oral Medicine	5th	Oxford and IBH	2	6807, 6808
43	Firkin, Frank	De Gruchy's Clinical Haematology in Medical Practice 5/e	5th	Blackwell,	2	1323, 1324
44	Fletcher, C.D.M.	Diagnostic Histopathology of Tumors Vol.1	2nd	Churchill Livingstone	2	7138, 7140
45	Fletcher, C.D.M.	Diagnostic Histopathology of Tumors Vol.2	2nd	Churchill Livingstone	2	7139, 7141
46	Fritz, April	ICD-O International Classification of Diseases for Oncology	1st	A.I.T.B.S.	1	6953
47	Ganong, William	Review of Medical Physiology 22/e	22nd	McGraw Hill	1	6821
48	Garant	Oral Cells and Tissues	1st	Quintessence	2	6904, 7490
49	Girod, S. Christiar	Tumor Suppressor Genes and Cell Proliferation Control in the	1st	Quintessence	1	4513
50	Godkar, Praful B.	Text Book of Medical Laboratory Technology;1/e(2), 2/e(2)	1st, 2nd	Bhalani Pub	4	1011, 1012, 7537,7538, 7905-7909
51	Goldsby, R.A.	Immunology	5th	Freeman and Co	2	6111, 6567
52	Gorlin, Robert J.	Thoma's Oral Pathology	1st	C.V. Mosby,	1	4756
53	Greenberg, Martin	Burket's Oral Medicine Diagnosis 11/e	11th	BC Decker Inc	1	7154
54	Greenspan, John S	Oral Manifestations of HIV Infection	1st	Quintessence	2	7342, 6905
55	Gupta, Robin	Instant Notes on Oral Pathology	1st	Satish Book Enterprise	1	7728
56	Harrison, Louis B	Head & Neck Cancer: A Multidisciplinary Approach	4th	Lippincott Williams and Wilkins	1	10044
57	Ishikawa, Gore	Color Atlas of Oral Pathology 1/e	1st	All india Publishers	3	712, 1747, 1985



58	Ivan, Damjanov	Anderson's Pathology Vol.1 &2	10th	Mosby	4	3753, 3754, 8129, 7975
59	Jain, Nitul	Textbook of Forensic Odontology	1st	Jaypee Brother	1	8357
60	Jordan, Ranald E	Krau's Dental Anatomy and Occlusion 2/e	2nd	Mosby	1	2059
61	Jose, Maji	Manual of Oral Histology & Oral Pathology: Color atlas& text	1st	CBS Publishers	12	7231 -7240, 9534,9819
62	Karp, Gerald	Cell and Molecular Biology	4th	John Wiley and Sons	1	6818
63	Kataoka, Shigeo	Nature's Morphology: An Atlas of Tooth Shape and Form	1st	Quintessence	1	4522
64	Kawthalkar, S. M	Essentials of Haematology	1st	Jaypee Brother	6	7493-7498
65	Kitamura, Hironori	Color Atlas of Human Oral Histology	1st	A.I.T.B.S	2	1748, 1796
66	Khurana , A.K	OPHTHALMOLOG Y	1st	H.S. Poplai	2	8699
67	Koneman, Elmer	Color Atlas and Text Book of Diagnostic Microbiology	4th	Lippincott Williams and Wilkins	1	2011
68	Koss, Leopold G.	Diagnostic Cytology and its Histopathology Bases Vol.1 4/e	4th & 5th	Lippincott	2	3937, 6210
69	Koss, Leopold G.	Diagnostic Cytology and its Histopathology Bases Vol.2 4/e	4th & 5th	Lippincott	2	3938, 6211
70	Kumar, Vinay	Robbins and Cotran Pathologic Basis Disease	7th	Saunders	1	6817
71	Kumar,G.S.	Orban's Oral Histology and Embryology 13th ed	13th	Elsevier	3	8586, 8587, 8634
72	Lamont, Richard J.	Oral Microbiology and Immunology	1st	ASM Press,	2	7150, 7206
73	Langlais, Robert P	Color Atlas of Common Oral Disesses	3rd	Lippincott Williams and Wilkins	1	4487
74	Lavelle, Christopher L	Applied Oral Physiology 2/e	2nd	Wright	1	339

75	Levinson, Waren	Medical Microbiology and Immunology 6/e	6th	Lange Medical Book	1	1600
76	Lewin, Benjamin	Genes IX	1st	Jones and Bartle	2	7333, 7334
77	Livolsi, virginia.A	Pathology	2nd	John Wiley and Sons,	1	8504
78	Lodish, Harvey	Molecular Cell Biology; 6th Ed.	6th	W.H.Freeman	2	7623, 7624
79	Loffler, H.	Atlas of Clinical Hematology; 6th Ed	6th	Springer	1	7335
80	Lucas, R B	Pathology of Tumours of the Oral Tissues	1st	Churcill E	1	4755
81	Macfarlanc, Peter	Pathology Illustrated 5/e	5th	Churchill	8	1331-1336, 6142, 6143
82	Macseen, Rodd	Mur's Text Book of Pathology 13/e	13th	Thomson Press	3	1449,1450, 3944
83	Manjunath, K	Oral Pathology : Exam Prepratory Manual for Undergraduates	1st	Elsevier	11	8209-8217, 8533, 8518
84	Manjunath, K	Textbook of Dental Anatomy and Oral Physiology; Including Occlusion and Forensic Odontolog	1st	Jaypee Brother	1	8525
85	Marx	Oral and Maxillofacial Pathology	1st	Quintessence	1	6908
86	Marx, Robert E.	Oral Pathology in Clinical Dental Practice	1st	Quintessence	1	10052
87	Masthan, KMK	Textbook of Pediatric otal Pathology	1st	Jaypee Brother	1	8545
88	McPhee, Stephen	Pathophysiology of Disease 2/e	2nd	Appleton and Lange	2	1731, 1732
89	Melfi, Rudy C	Permar's Oral Embryology and Microscopic Anatomy 7/e	7th	Lee and febyer	1	1951
90	Mental Dental Sci.	Promoting Dental Care through excellence in Research	1st	Oxford Univ. Press	1	7474
91	Metha, Fali S	Tobacco-related Oral Mucosal Lesions and Conditions in India	1st	Jaypee Brother	2	1156, 1157

92	Miles, Timothy S	Clinical Oral Physiology	1st	Quintessence	2	6906, 7663
93	Mukherjee, K L	Medical Laboratory Technology Vol.1	1st	T.M.H	2	1052, 1198
94	Mukherjee, K L	Medical Laboratory Technology Vol.2	7th	T.M.H	2	1053, 1199
95	Mukherjee, K L	Medical Laboratory Technology Vol.3	7th	T.M.H	2	1054, 1200
96	Myers, Eugene N.	Cancer of the Head and Neck 4/e	4th	Saunders Elsever	2	7383, 8584
97	Nanci, Antonio	Ten Cate's Oral Histology : Developement, Structures and Function 8th ed (17), 6th (1)		Elsevier	18	8588, 8636, 5229, 9274 - 9288
98	Neville, Brad W	Oral & Maxillofacial Pathology; 2/e(21), 3/e(13) SAE (10)	2nd, 3rd, 1st SAE	Elsevier	44	5004 - 5008, 5779 - 5788, 6562 - 6566, 7082, 7083, 7508 - 7519, 9421, 9766, 9254 - 9263
99	Neville, Brad W	Colour Atlas of Clinical Oral Pathology	1st & 2nd	Lee and febyer	2	3456, 6504
100	Neville, Brad W.	Oral and maxillofacial pathology, 3 rd ed.	3rd	Elsevier	3	8580 - 8582
101	Neville, Brad W.	Colour Atlas of Oral and Maxillofacial Diseases	1st	Elsevier	1	10045
102	Nisengard, Russell J.	Oral Microbiology and Immunology; 2/e	2nd	W.B. Saunders,	1	7853
103	Ord	Oral Cancer	1st	Quintessence	1	6903
104	Odell, E.W	Cawson's Essentials of Oral Pathology & Oral Medicine	9th	Elsevier	1	10043
105	Orell, Avante R.	Manaul and Atlas of Fine Needle Aspiration Cytology 3/e	3rd	Churchill Livingstone	1	3940
106	Pillai, K.K.	Biochemistry and Clinical Pathology	1st	CBS Publishers	5	659 - 663
107	Pitot, Henry C.	Fundamentals of Oncology	4th	Marcel Dekker,	1	6876

108	Provenza, D Vineent	Oral Histology 2/e	2nd	Lee and febyer	3	1901 - 1903
109	Purkait, Swapan Kumar	Essentials of Oral Pathology; 1/e, 2/e	1st & 2nd	JAYPEE BROTHER	54	1965, 1966, 3256 - 3562, 2161 - 2173, 3332 - 3344, 5921 -- 5930, 9378, 9403, 9404, 9462, 4730, 4731, 8445, 8754
110	Radhakrishnan, A N	Oral Histology Dental Anatomy & Oral Physiology: Made Easy	1st	Gajanana Book	1	714
111	Rajendran, R	Shafer's Textbook Oral Pathology, 5th (2),7th ed (4)	5th,7th	Elsevier	6	6805, 6806, 8577 -8579, 8632
112	Rajkumar,K	Textbook Oral Anatomy Histology Physiology and Tooth Morphology:	4th	Wolters Kluwer	1	9808
113	Rajkumar,K	Textbook Oral Anatomy Histology Physiology and Tooth Morphology	1st	Wolters Kluwer	2	9839, 8527
114	Rasmi, G.S	Textbook of Dental Anatomy Physiology and Occlusion	1st	Jaypee Brother	2	8,51,08,540
115	Regezi, Joseph A	Oral Pathology : Clinical Pathologic Correlation; 3/e(2), 4/e(10), 5/e(3)	3rd, 4th,5th	Saunders Elsever	15	4987,4988, 6694 - 6698, 6074,6826, 4545, 4829, 3309,3310, 7216,7217, 7111
116	Regezi, Joseph A	Atlas of Oral Maxillofacial Pathology	1st	W.B. Saunder	2	4640, 4641
117	Reichart, Peter A.	Odontogenic Tumors and Allied Lesions	1st	Quintessence	2	7031, 7060
118	Reid, Robin	Pathology Illustrated	5th	Churchill	2	6307, 6308
119	Rensburg, B G Jansen	Oral Biology	1st	Quintessence	1	6705, 4521
120	Riviere	Lab Manual of Normal Oral Histology	1st	Quintessence	1	6907
121	Roitt, Ivan	Immunology	6th	W.B. Saunder	2	6492, 6202

122	Rosai, Juan	Ackerman's Surgical Pathology	19th	Elsevier	2	7977, 7978
123	Rosenthal, Ken S.	Microbiology and Immunology	1st	Mosby	1	2014
124	Sachdev, K.N.	Clinical Pathology and Clinical Bactriology 9/e	9th	Jaypee Brother	2	1415, 1416
125	Sanjaya, PR	Role of Immunofluorence in Skin lesions	1st	Lap Lambert	1	8220
126	Sapp, J. Philip	Contemporary Oral and Maxillofacial Pathology 2/e	2nd	Mosby Elseveier	4	6895,6896, 7394,7395
127	Saraf, Sanjay	Text Book of Oral Pathology	1st	Jaypee Brother	2	6900, 8503
128	Scully, Crispian	Handbook of Oral Disease: Diagnosis and Managemet	1st	Martin Dunitz	1	3435
129	Shafer, William G	Textbook of Oral Pathology; 4/e(24), 5/e(16), 6/e(12)	4th, 5th,6th	Elsevier	52	4975, 6484, 6485, 4974, 7360-7367, 9825,9807, 9383,10000 1058,1801, 1802,9419, 3569 -3572, 3235 - 3244, 3457 -3464, 8485,4869, 7520 - 7531
130	Sharma, Ashwani	Synopsis of Histopathological Techniques	1st	R. Lall Book Depo.	1	6084
131	Shear, Mervyn	Cysts of the Oral Regions	3rd	Varghese Pub	31	748, 6871, 6870, 4120-4122, 4212-4214, 1504-1518, 5960-5963, 7151,7152, 5081-5090
132	Sivapathasundharam, B	Shafer's Textbook Oral Pathology, 8th ed (15), 9th ed (1)	8th, 9th	Elsevier	16	9239 -9253, 10053
133	Silverman, So.; Ed.	Oral Cancer; 2/e(1), 4/e(1)	2nd, 4th	Decker	2	2140, 5957
134	Silverman, Sol	Color Atlas of Oral Manifestations of Aids 2/e	2nd	Mosby	3	3429, 5722, 5738
135	Slots, Jorgen	Contemporary Oral Microbiology and Immunology	1st	Mosby	2	4642, 6679

136	Soames, J.V	Oral Pathology; 4th Ed	4th	Oxford Univ. Press	1	7602
137	Sood, Ramnik	Haematology for Students Practitioner 4/e	4th	Jaypee Brother	7	664,665,769 1297- 1300
138	Stevens, Alan	Wheater's Basic Histopathology 4/e	4th	Churcill	5	3927 - 3929, 6138,6139
139	Sundraram, Soma	Viva in Oral Pathology	1st	A.I.T.B.S	12	1987 ,1988, 3588 - 3597
140	Sundraram, Soma	Viva in Dental Pathology	1st	A.I.T.B.S	10	2191 -- 2200
141	Talwar, G.P.	Hand Book of Practical and Clinical Immunology Vol.1	2nd	CBS Publishers	6	4134 -4135, 1778 - 1781,
142	Talwar, G.P.	Hand Book of Practical and Clinical Immunology Vol.2	2nd	CBS Publishers	6	4136 - 4137, 1782 - 1785
143	Teaching Research	Dental Anatomy: A Self-Instructional Program. 9/e	9th	Appleton and Lange	2	1,85,81,859
144	Tencate, Richard A	Oral Histology ; 3/e(1), 5/e(17), 6/e(16), 7/e(13)	3rd,5th, 6th,7th	Mosby Elseveier	47	8563,3500, 1224, 1225, 5158 - 5162, 3609 - 3617, 5769 - 5778, 9369, 9780, 6811, 6812, 6109, 6110, 7241 - 7248, 7353 - 7357
145	Todd, Ian	Lecture Notes Immunology 5/e	5th	Blackwell Pub	3	6536, 6537, 6685
146	Tyldesley, W.R.	Color Atlas of Oral Medicine	2nd	Mosby	1	4103
147	Van Way III, Charl	Nutrition Secrets	1st	Jaypee Brother	1	3167
148	Vandepitte, J.	Basic Laboratory Procedures in Clinical Bacteriology	2nd	A.I.T.B.S	1	6950
149	Waal, Van Der	Oral Pathology	1st	Quintessence	1	4539
150	Walter, J.B.	Walter and Isarel General Pathology 7/e	7th	Churchill	1	1395
151	Warnakulasuriya, Saman	Textbook of Oral Cancer: Prevention, Diagnosis &	1st	Springer	1	10042

		Management				
152	Warsi, M A Nusrath	MCQs in Oral and Maxillofacial Pathology	1st	Jaypee Brother	2	1977, 1978
153	Wedding, M.E.	Medical Laboratory Procedures	1st	Jaypee Brother	2	1396, 1397
154	Weiss, Sharon W	Enzinger & Weiss's Soft Tissue Tumors; 5th Ed	5th	Mosby Elsevier	1	7658
155	WHO	Laboratory Biosafety Manual	3rd	A.I.T.B.S	1	6954
156	WHO	HIV/AIDS Care and Treatment	1st	A.I.T.B.S	1	7033
157	Woelfel, Julian B Scheid, Rickne C	Woelfel's Dental Anatomy; 5/e(8), 7/e(5), 9th (15)	5th,7th,9th	Williams and Wilkins	28	7603 -7607, 9299 - 9313, 1861 -1863, 2061, 1386, 6287, 6288
158	Woo, Sook-Bin	Oral Pathology : A Complete Atlas and Text	1st	Elsevier, Saunder	1	8845
159	Wood, Norman K.	Differentials Diagnosis of the Oral Lesions	3rd	Mosby	2	5074, 5077
160	Wood, Norman K.	Differentials Diagnosis of Oral and Maxillofacial Lesions 5/e	5th	Mosby	1	7097
161	Yadav, N.S.	Short Question and Answers in Oral Medicine and Oral Pathology	1st	A.I.T.B.S	1	1537
162	Young, Barbara	Wheater's Functional Histology 5/e	5th	Churchill Livingstone	2	6809, 6810
163	Young, Barbara	Wheater's Basic Pathology: A Text, Atlas & review of Histopath.	5th	Churchill Livingstone	2	8039, 8040
164	Young, William G	Atlas of Oral Pathology	1st	Univ. of Minnesota	1	1750
165	Daiya, J.A	A Concise Manual of Dental Anatomy	1st	Perna Publishe	1	9386
166	Berkovitz, B.K.B	Oral Anatomy, Histology & Embryology	5th	Elsevier	2	9910, 9911
167	Nanco, Antonio	Ten Cate's Oral Histology 1st SAE	1st SAE	Mosby Elsevier	2	9920, 9921,
		<b>Total No. of Books</b>			<b>882</b>	

## I.T.S CENTRE FOR DENTAL STUDIES AND RESEARCH

DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

### International Journals

**Total no. of International journals being subscribed :37**

S. No.	Name of Journal	Since
1	American Journal of Orthodontics & Dentofacial Orthodontics	2003
2	Australian Orthodontic Journal	2006
3	British Journal of Oral and Maxillofacial Surgery	2006
4	Cancer	2009
5	Community Dentistry and Oral Epidemiology	2008
6	Dental Abstracts	2000
7	Dental Clinics of North America	2003
8	Dental Update	2002
9	European Journal of Orthodontics	2006
10	Evidence Based Dentistry	2010
11	Fluoride	1996
12	Implant Dentistry	2009
13	International Dental Journal	2006
14	International Journal of Oral & Maxillofacial Surgery	2010
15	Journal of American Dental Association	2001
16	Journal of Clinical Orthodontics	2005
17	Journal of Clinical Pediatric Dentistry	2010
18	Journal of Endodontics	2007
19	Journal of Esthetic & Restorative Dentistry	2006
20	Journal of Oral Pathology and Medicine	2000
21	Journal of Periodontology	2000
22	Journal of Prosthetic Dentistry	1984
23	Operative Dentistry	2002
24	Oral & Maxillofacial Clinics of North America	2006
25	Oral Radiology	2010
26	Oral Surgery, Oral Medi. Oral Path. Oral Rad. & Endo.	2002
27	Pediatric Dentistry	2004
28	Quintessence International	2002
29	Seminar's in Orthodontics	2013
30	Cancer Cytopathology	2018
31	Clinical Advances in Preperiodontology	2018
32	International Dental Journal of Students Research	2015
33	International Journal of Prosthodontics & Restorative Dentistry	2016



34	International Journal of Experimental Dental Science	2016
35	World Journal of Dentistry	2016
36	Caries Research	2018
37	Journal of Cranomaxillofacial Surgery	2018

### **I.T.S CENTRE FOR DENTAL STUDIES AND RESEARCH**

DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

#### **National Journals**

**Total no. of National journals being subscribed :26**

<b>S. No.</b>	<b>Name of Journal</b>	<b>Since</b>
1	Endodontology	2010
2	Famdent	2001
3	Annals of maxillofacial surgery	2015
4	Indian Journal of Dental Research	2000
5	Indian Journal of Medical Microbiology	2011
6	Indian Journal of Pathology and Microbiology	2011
7	Indian Journal of Public Health	2012
8	Journal of Conservative Dentistry	2002
9	Journal of Cytology	2011
10	Journal of Indian Academy of Oral Med. & Radiology	2004
11	Journal of Indian Orthodontics Society	2003
12	Journal of Indian Prosthodontics Society	2008
13	Journal of Indian Society of Pedodontics and Prev. Dent.	2000
14	Journal of Indian Society of Periodontology	2013
15	Journal of Oral and Maxillofacial Pathology	2007
16	Journal of Contemporary Dentistry	2016
17	Indian Dentist Research and Review	2004
18	Journal of Maxillofacial & Oral Surgery	2007
19	Contemporary Clinical Dentistry	2010
20	Indian Journal of Pathology & Oncology	2020
21	International Journal of Clinical Biochemistry	2020
22	New Indian Journal of Surgery	2020
23	Indian Journal of Physiology & Pharmacology	2020
24	Journal of the Anatomical Society of India	2020
25	Indian Journal of Pharmacology	2020
26	Heal Talk	2018

## I.T.S CENTRE FOR DENTAL STUDIES AND RESEARCH

DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

**Current On-Line Journals Specialty & Related in Oral Pathology dept.  
(EBSCO)**

### Specialty Journals:- ( International - 06, National 04)

S. No.	Publication Name	Publisher	Full Text Start	Full Text Stop	Full Text Delay (Months)	Country
1	International Journal of Oral & Maxillofacial Pathology	Celesta Software Private Limited	01/01/2013			India
2	Journal of Oral & Facial Pain & Headache	Quintessence Publishing Company Inc.	01/01/2014			United States of America
3	Journal of Oral & Maxillofacial Pathology (0973029X)	Wolters Kluwer India Pvt Ltd	01/01/2007			India
4	Journal of Oral Diseases	Hindawi Limited	08/01/2015	11/30/2018		United Kingdom
5	Journal of Oral Pathology	Wiley-Blackwell	01/01/1972	12/31/1988		United Kingdom
6	Journal of Oral Pathology & Medicine	Wiley-Blackwell	01/01/1989		12	United Kingdom
7	Journal of Oral Sign	Journal of Oral Sign	01/01/2013			India
8	Oral & Maxillofacial Pathology Journal	Kairali Society of Oral & Maxillofacial Pathologists	01/01/2010			India
9	Romanian Journal of Oral Rehabilitation	Societatea Romana de Reabilitare Orala	01/01/2013			Romania
10	Oral & Craniofacial Tissue Engineering	Quintessence Publishing Company Inc.	04/01/2011	12/31/2012		United States of America

### Related Journals :- ( National - 31, International - 93)

S. No.	Publication Name	Publisher	Full Text Start	Full Text Stop	Full Text Delay (Months)	Country
1	Critical Reviews in Oral Biology & Medicine	International & American Associations for Dental Research	01/01/1990	11/30/2004		United States of America
2	MICRO: The International Journal of Microdentistry	Quintessence Publishing Company Inc.	08/01/2009	08/31/2010		United States of America
3	Molecular Oral Microbiology	Wiley-Blackwell	01/01/2010		12	United Kingdom

4	<b>West China Journal of Stomatology</b>	Sichuan University, West China College of Stomatology	01/01/2011			China
5	<b>Advances in Dental Research</b>	International & American Associations for Dental Research	01/01/1987			United States of America
6	<b>Alpha Omegan</b>	Alpha Omega International Dental Fraternity	03/01/2011	12/31/2015		United States of America
7	<b>Archives of Dental Science / Arquivos em Odontologia</b>	Universidade Federal de Minas Gerais, Faculdade de Odontologia	01/01/2011			Brazil
8	<b>Archives of Orofacial Science</b>	Universiti Sains Malaysia	04/01/2012			Malaysia
9	<b>Asian Journal of Oral Health &amp; Allied Sciences</b>	Saraswati Medical & Dental College Society	12/01/2011			India
10	<b>Australian &amp; New Zealand Journal of Dental &amp; Oral Health Therapy</b>	Australian & New Zealand Journal of Dental & Oral Health Therapy	04/01/2018			Australia
11	<b>Australian Dental Journal</b>	Wiley-Blackwell	12/01/2003		12	United Kingdom
12	<b>Baba Farid University Dental Journal</b>	Dr. Rajeev Manhas, Managing Editor, Baba Farid University Dental Journal	02/01/2014			India
13	<b>Biological Therapies in Dentistry</b>	Decker Publishing	06/01/2004	04/30/2013		Canada
14	<b>BMC Oral Health</b>	BioMed Central	01/01/2001			United Kingdom
15	<b>Brazilian Journal of Oral Sciences</b>	Brazilian Journal of Oral Sciences	10/01/2007			Brazil
16	<b>Brazilian Oral Research</b>	Brazilian Oral Research	01/01/2008			Brazil
17	<b>British Dental Journal</b>	Springer Nature	01/01/1999	11/30/2015		United Kingdom
18	<b>British Dental Nurses Journal</b>	British Association of Dental Nurses	09/01/2007			United Kingdom
19	<b>Case Reports in Dentistry</b>	Hindawi Limited	01/01/2012			United Kingdom
20	<b>CDS Review</b>	Chicago Dental Society	05/01/2006			United States of America
21	<b>Chinese Journal of Dental Research</b>	Quintessence Publishing Company Inc.	12/01/2017			United States of America
22	<b>Clinical Dentistry (0974-3979)</b>	Indian Dental Association	05/01/2012			India
23	<b>Clinical Oral Investigations</b>	Springer Nature	03/01/2000		12	Germany
24	<b>Columbia Dental Review</b>	Columbia University College of Dental Medicine	01/01/2008			United States of America
25	<b>Community Dentistry &amp; Oral Epidemiology</b>	Wiley-Blackwell	10/01/1973		12	United Kingdom
26	<b>Contemporary Clinical Dentistry</b>	Wolters Kluwer India Pvt Ltd	05/01/2010			India
27	<b>CRANIO: The Journal of Craniomandibular &amp; Sleep Practice</b>	Taylor & Francis Ltd	01/01/2005		12	United Kingdom
28	<b>Dental Follicle - The E-Journal of Dentistry</b>	Dental Follicle - The E-Journal of Dentistry	10/01/2011			India
29	<b>Dental Forum</b>	Dental Forum	07/01/2015			Poland

30	<b>Dental Hypotheses</b>	Dental Hypotheses	03/01/2010			Iran (Islamic Republic of)
31	<b>Dental Research Journal</b>	Wolters Kluwer India Pvt Ltd	08/01/2010			India
32	<b>dentalTarget</b>	dentalTarget	11/01/2013			Romania
33	<b>E-Journal of Dentistry</b>	E-Journal of Dentistry	01/01/2011			India
34	<b>European Journal of Oral Sciences</b>	Wiley-Blackwell	02/01/1995		12	United Kingdom
35	<b>Evidence-Based Dentistry</b>	Springer Nature	01/01/2000	09/30/2015		United Kingdom
36	<b>Faculty Dental Journal</b>	Royal College of Surgeons of England	10/01/2013			United Kingdom
37	<b>Gerodontology</b>	Wiley-Blackwell	01/01/1982		12	United Kingdom
38	<b>Guident</b>	Ivory India	07/01/2011			India
39	<b>IDA Times</b>	Indian Dental Association	06/01/2012			India
40	<b>Imaging Science in Dentistry</b>	Korean Academy of Oral & Maxillofacial Radiology	10/01/2012			Korea, Republic of (South)
41	<b>Indian Journal of Comprehensive Dental Care (IJCDC)</b>	Indian Journal of Comprehensive Dental Care	05/01/2011			India
42	<b>Indian Journal of Dental Advancements</b>	National Academy of Dentistry	01/01/2013			India
43	<b>Indian Journal of Dental Research</b>	Wolters Kluwer India Pvt Ltd	04/01/2007			India
44	<b>Indian Journal of Dental Sciences</b>	Himachal Dental College	01/01/2010			India
45	<b>Indian Journal of Stomatology</b>	Indian Journal of Stomatology	12/01/2010			India
46	<b>International Dental Journal</b>	Wiley-Blackwell	01/01/2011		12	United Kingdom
47	<b>International Dental Journal of Students' Research</b>	International Dental Journal of Students' Research	01/01/2015			India
48	<b>International Dentistry South Africa</b>	Modern Dentistry Media	01/01/2013			South Africa
49	<b>International Journal of Clinical Dentistry</b>	Nova Science Publishers, Inc.	10/01/2009			United States of America
50	<b>International Journal of Dental Clinics</b>	Celesta Software Private Limited	01/01/2013			India
51	<b>International Journal of Dentistry</b>	Hindawi Limited	01/01/2008			United Kingdom
52	<b>International Journal of Medical Dentistry</b>	Apollonia University of Iasi, Medical Dentistry Faculty	01/01/2011			Romania
53	<b>International Journal of Orofacial Myology</b>	International Journal of Orofacial Myology	01/01/2006			United States of America
54	<b>International Journal of Public Health Dentistry</b>	Celesta Software Private Limited	01/01/2013			India
55	<b>International Poster Journal of Dentistry &amp; Oral Medicine</b>	Quintessenz Verlags GmbH	09/01/2016			Germany
56	<b>ISRN Dentistry</b>	Hindawi Limited	01/01/2011	06/30/2014		United Kingdom
57	<b>JIDA: Journal of Indian Dental Association</b>	Indian Dental Association	01/01/2013			India

58	<b>Journal of Advanced Dental Research</b>	International Society of Preventive & Community Dentistry	10/01/2010	12/31/2011		India
59	<b>Journal of Advanced Oral Research</b>	Sage Publications Inc.	01/01/2012	12/31/2017		United Kingdom
60	<b>Journal of Clinical Dentistry &amp; Research</b>	Dental Press International	01/01/2016			Brazil
61	<b>Journal of Conservative Dentistry</b>	Wolters Kluwer India Pvt Ltd	01/01/2008			India
62	<b>Journal of Dental Biomechanics</b>	Hindawi Limited	01/01/2010	01/31/2014		United Kingdom
63	<b>Journal of Dental Materials &amp; Techniques</b>	Mashhad University of Medical Science	11/01/2013			Iran (Islamic Republic of)
64	<b>Journal of Dental Medicine</b>	Tehran University of Medical Sciences	12/01/2008			Iran (Islamic Republic of)
65	<b>Journal of Dental Research</b>	International & American Associations for Dental Research	01/01/1919			United States of America
66	<b>Journal of Dental Research, Dental Clinics, Dental Prospects</b>	Tabriz University of Medical Sciences	02/01/2012			Iran (Islamic Republic of)
67	<b>Journal of Dental School, Shahid Beheshti University of Medical Sciences</b>	Shahid Beheshti University of Medical Sciences, School of Dentistry	03/01/2013			Iran (Islamic Republic of)
68	<b>Journal of Dental Science &amp; Research</b>	Sri Sai College of Dental Surgery	01/01/2015			India
69	<b>Journal of Dentistry</b>	Elsevier B.V.	09/01/2012	07/31/2015		United States of America
70	<b>Journal of Dentistry (17283426)</b>	Shiraz University of Medical Sciences	01/01/2010			Iran (Islamic Republic of)
71	<b>Journal of Dentistry of Tehran University of Medical Sciences</b>	Tehran University of Medical Sciences	01/01/2011			Iran (Islamic Republic of)
72	<b>Journal of Forensic Odonto-Stomatology</b>	Journal of Forensic Odonto-Stomatology, International Organisation of Forensic Odonto-Stomatology	07/01/2012			Australia
73	<b>Journal of Interdisciplinary Dentistry</b>	Wolters Kluwer India Pvt Ltd	01/01/2011			India
74	<b>Journal of International Dental &amp; Medical Research</b>	Journal of International Dental & Medical Research	01/01/2009			Turkey
75	<b>Journal of International Oral Health</b>	International Society of Preventive & Community Dentistry	12/01/2009			India
76	<b>Journal of International Society of Preventive &amp; Community Dentistry</b>	Wolters Kluwer India Pvt Ltd	01/01/2011			India
77	<b>Journal of Investigative &amp; Clinical Dentistry</b>	Wiley-Blackwell	05/01/2012		12	United Kingdom

78	<b>Journal of Isfahan Dental School</b>	Isfahan University of Medical Sciences & Health Services, School of Dentistry	08/01/2011			Iran (Islamic Republic of)
79	<b>Journal of Mashhad Dental School</b>	Journal of Mashhad Dental School	08/01/2011	07/31/2013		Iran (Islamic Republic of)
80	<b>Journal of Oral Health &amp; Community Dentistry</b>	Prof. Dr. C.M. Marya	01/01/2013			India
81	<b>Journal of Oral Health &amp; Research</b>	Sharda University, School of Dental Sciences	06/01/2010			India
82	<b>Journal of Oral Health Research</b>	Journal of Oral Health Research	10/01/2010			India
83	<b>Journal of Oral Laser Applications</b>	Quintessence Publishing Company Inc.	01/01/2001	12/31/2010		United States of America
84	<b>Journal of Oral Rehabilitation</b>	Wiley-Blackwell	01/01/1974		12	United Kingdom
85	<b>Journal of Oral Science</b>	Nihon University School of Dentistry	09/01/2008			Japan
86	<b>Journal of Oral Sign</b>	Journal of Oral Sign	01/01/2013			India
87	<b>Journal of Pearldent</b>	Indian Dental Association	04/01/2012			India
88	<b>Journal of Public Health Dentistry</b>	Wiley-Blackwell	01/01/2003		12	United Kingdom
89	<b>Journal of Research in Dental Sciences</b>	Islamic Azad University, Dental Branch	01/01/2013			Iran (Islamic Republic of)
90	<b>Journal of Surgical &amp; Clinical Dentistry</b>	Master Editora	09/01/2014			Brazil
91	<b>Journal of the American College of Dentists</b>	American College of Dentists	01/01/2003			United States of America
92	<b>Journal of the American Dental Association (JADA)</b>	American Dental Association	04/01/2011	07/22/2014		United States of America
93	<b>Journal of the Canadian Dental Association</b>	Canadian Dental Association	07/01/2005			Canada
94	<b>Journal of the Indiana Dental Association</b>	Indiana Dental Association	10/01/2015			United States of America
95	<b>Journal of the Irish Dental Association</b>	Irish Dental Association Limited	01/01/2007			Ireland
96	<b>Journal of the Pakistan Dental Association</b>	Journal of Pakistan Dental Association	04/01/2014			Pakistan
97	<b>Malaysian Dental Journal</b>	Malaysian Dental Association	07/01/2005			Malaysia
98	<b>Marmara Dental Journal</b>	Marmara University	09/01/2014			Turkey
99	<b>Medical Law Cases - For Dentists</b>	Wolters Kluwer India Pvt Ltd	08/01/2011			India
100	<b>MICRO: The International Journal of Microdentistry</b>	Quintessence Publishing Company Inc.	08/01/2009	08/31/2010		United States of America
101	<b>New York State Dental Journal</b>	New York State Dental Journal	11/01/2006			United States of America
102	<b>New Zealand Dental Journal</b>	New Zealand Dental Association Incorporated	12/01/2008			New Zealand
103	<b>Odontology</b>	Springer Nature	09/01/2003		12	Germany

10 4	<b>Oklahoma Dental Association Journal</b>	Oklahoma Dental Association	02/01/2 007			United States of America
10 5	<b>Ontario Dentist</b>	Ontario Dentist	01/01/2 006		9	Canada
10 6	<b>Oral Diseases</b>	Wiley-Blackwell	01/01/2 003		12	United Kingdom
10 7	<b>Oral Health &amp; Preventive Dentistry</b>	Quintessence Publishing Company Inc.	01/01/2 003			United States of America
10 8	<b>Oral Health (0974-3960)</b>	Indian Dental Association	06/01/2 012			India
10 9	<b>Oral Microbiology &amp; Immunology</b>	Wiley-Blackwell	11/01/1 986	12/31/2 009		United Kingdom
11 0	<b>Pakistan Oral &amp; Dental Journal</b>	Knowledge Bylanes	12/01/2 010			Pakistan
11 1	<b>Quintessence International</b>	Quintessence Publishing Company Inc.	01/01/1 978			United States of America
11 2	<b>Romanian Journal of Stomatology</b>	Amaltea Medical Publishing House	06/01/2 007			Romania
11 3	<b>Scandinavian Journal of Dental Research</b>	Wiley-Blackwell	01/01/1 970	12/31/1 994		United Kingdom
11 4	<b>Smile Dental Journal</b>	Smile Dental Journal	03/01/2 014			Jordan
11 5	<b>Special Care in Dentistry</b>	Wiley-Blackwell	01/01/2 008		12	United Kingdom
11 6	<b>Stomatologie</b>	Springer Nature	04/01/2 004	12/31/2 009		Germany
11 7	<b>Arkansas Dentistry</b>	Matthews Publishing Group	03/01/2 011			United States of America
11 8	<b>Dental Economics</b>	PennWell Corporation	05/01/2 007			United States of America
11 9	<b>Dental Practice Management</b>	MJH Life Sciences	11/01/2 002	12/31/2 012		United States of America
12 0	<b>Journal of the Tennessee Dental Association</b>	Tennessee Dental Association	07/01/2 007			United States of America
12 1	<b>NYSDA NEWS</b>	New York State Dental Journal	10/01/2 006			United States of America
12 2	<b>Penn Dental Journal</b>	University of Pennsylvania, School of Dental Medicine	03/01/2 008	08/31/2 013		United States of America
12 3	<b>SAAD Digest</b>	SAAD	01/01/2 007			United Kingdom

**I.T.S CENTRE FOR DENTAL STUDIES AND RESEARCH**

DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

**List of current Journals for Department of Oral & Maxillofacial Pathology**

**International Journals**

<b>S. No.</b>	<b>Name of Journals</b>	<b>Periodicity</b>
1	Journal of Oral Pathology and Medicine*	10 issues
2	Cancer	24 issues
3	Cancer Cytopathology	Quarterly
4	Oral Surgery, Oral Medi. Oral Path. Oral. Rad.	Monthly

**National Journals**

<b>S. No.</b>	<b>Name of Journals</b>	<b>Periodicity</b>
1	Journal of Oral and Maxillofacial Pathology	Quarterly
2	Indian Journal of Pathology and Microbiology	Quarterly
3	Journal of Cytology	Quarterly
4	Indian Journal of Medical Microbiology	Quarterly



**I.T.S. CENTRE FOR DENTAL STUDIES AND RESEARCH**  
DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD

**List of back volumes of Journals for Department of Oral & Maxillofacial Pathology**

**International Journals**

<b>S. No.</b>	<b>Name of Journals</b>	<b>Availability</b>	<b>Dept.</b>
1	Cancer*	2009-2018	Specialty
2	Oral Surgery, Oral Medi. Oral Path. Oral. Rad. & Endo.*	2002-2018	Specialty
3	Cancer Cytopathology	2018	Specialty
4	Oral Disease	2007-2015	Specialty
5	Journal of Maxillofacial and Oral Surgery*	2007-2018	Related
6	Oral & Maxillofacial Clinics of North America*	2006-2018	Related
7	Dental Clinics of North America *	2003-2018	Related
8	International Journal of Oral & Maxillofacial Surgery *	2010-2018	Related
9	British Dental Journal	2000-2015	Related
10	British Journal of Oral and Maxillofacial Surgery *	2000-2018	Related
11	Australian Dental Journal	1998-2015	Related
12	Evidence based Dentistry *	2010- 2018	Related
13	Journal of Dental Education	2010-2015	Related
14	Quintessence International *	2002-10, 2012-18	Related
15	Dental Abstract*	2000-2003, 2005-2018	Related
16	Dental Update*	2002-2003, 2005-2018	Related

17	Journal of Esthetic & Restorative Dentistry*	2006-2018	Related
18	International Dental Journal*	1992-2018	Related
19	Journal of American Dental Association*	2000-2018	Related

(\* ) International Journals with 10 year back volumes in hard copy

#### National Journals

S. No.	Name of Journals	Availability	Dept.
1	Journal of Cytology	2011-2018	Specialty
2	Indian Journal of Pathology and Microbiology *	2001-2018	Specialty
3	Indian Journal of Medical Microbiology	2011-2018	Specialty
4	Journal of Oral Pathology and Medicine*	2000-2018	Specialty
5	Journal of Oral and Maxillofacial Pathology*	2007- 2018	Specialty
6	Famdent *	2001-2018	Related
7	Indian Dentist Research and Review*	2004-2016	Related
8	World Journal of Dentistry	2016-2018	Related
9	International Dental Journal of Students Research	2015-2018	Related
10	International Journal of Experimental Dental Science	2016-2018	Related
11	Indian Journal of Hematology and Blood Transfusion	2011-2017	Related
12	Indian Journal of Dental Research *	2000-2018	Related
13	Heal Talk	2018	Related
14	Contemporary Clinical Dentistry	2010-2018	Related

I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

**Department of Oral & Maxillofacial Pathology & Microbiology**

# EXAMINATION PATTERN & PAPERS

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi-Meerut Road, Murad Nagar, Ghaziabad

**Scheme of Theory Examination :**

The university examination shall consist of theory, practical and clinical examination and viva-voce

and Pedagogy

**(i) Theory:**

**Part-I:** Shall consist of one paper

There shall be a theory examination in the Basic Sciences at the end of 1st year of course.

The question papers shall be set and evaluated by the concerned Department/Specialty. The candidates shall have to secure a minimum of 50% in the Basic Sciences and shall have to pass the **Part-I** examination at least six months prior to the final (Part-II) examination.

**Part-II:** Shall consist of three papers, namely:

**Paper-I :** Oral pathology, Oral Microbiology and Immunology and Forensic Odontology

**Paper-II :** Laboratory techniques and Diagnosis and Oral Oncology

**Paper-III :** Descriptive and analysing type question

Practical and Clinical Examination

(iii) Viva-voce; and

(iv) Pedagogy.

## **Oral Pathology M.D.S. Exam Theory Syllabus**

### **Part-I**

**Paper-I :** Applied Basic Sciences: Applied anatomy, Physiology (General and oral), Cell Biology, General Histology, Biochemistry, General Pathology, General and Systemic Microbiology, Virology, Mycology, Basic Immunology, Oral Biology (oral and dental histology), Biostatistics and Research Methodology

### **Part-II:**

**Paper-I :** Oral pathology, Oral Microbiology and Immunology and Forensic Odontology

**Paper-II :** Laboratory techniques and Diagnosis and Oral Oncology

**Paper-III :** Descriptive and analysing type question

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

**Department of Oral & Maxillofacial Pathology & Microbiology**

# **TIME TABLE**

**DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY**

**Time Table for I Semester Batch 2021 - 24**  
**October 2021– January 2022**

<b>Time Day</b>	<b>8.30am - 10.30am</b>	<b>10.30am – 1.30pm</b>	<b>1.30pm - 2.00pm</b>	<b>2.00pm - 3.00pm</b>
<b>Monday</b>	Seminar	Practical Work Basic Histology	<b>LUNCH BREAK</b>	Basic Sciences Discussion / Didactic Lecture Gen. Pathology
<b>Tuesday</b>	Ground Section / Carving	Journal club		Under Graduate Teaching Program/ Lab Work
<b>Wednesday</b>	Seminar	Lab Work		Basic Sciences Discussion / Didactic Lecture Gen. Microbiology & Immunology
<b>Thursday</b>	Hospital Posting			Bio - Statistics Lecture
<b>Friday</b>	Lab Work	Journal club		Basic Sciences Discussion/ Didactic Lecture Gen. Biochemistry
<b>Saturday</b>	Hospital / Camp Posting			Case Presentation

**DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY**

**Scheduled Time Table for IInd Semester Batch 2020 - 23**  
**February – June 2022**

<b>Time Day</b>	<b>8.30am - 10.30am</b>	<b>10.30am – 1.30pm</b>	<b>1.30pm - 2.00pm</b>	<b>2.00pm - 3.00pm</b>
<b>Monday</b>	Seminar	Practical Work Basic Histology	<b>LUNCH BREAK</b>	Basic Sciences Discussion / Didactic Lecture Gen. Pathology
<b>Tuesday</b>	Oral Histology	Journal Club		Lab Work
<b>Wednesday</b>	Seminar	Lab Work		Basic Sciences Discussion / Didactic Lecture Gen. Microbiology & Immunology
<b>Thursday</b>	Clinical Posting			Journal Club
<b>Friday</b>	Lab Work	Bio - Statistics Lecture		Basic Sciences Discussion/ Didactic Lecture Gen. Biochemistry
<b>Saturday</b>	Clinical Posting			Case Presentation



**DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY**

**Scheduled Time Table for IIIrd Semester Batch 2020 - 23**  
**July – December 2022**

<b>Time Day</b>	<b>8:30am – 10:00am</b>	<b>10:00am -12:30pm</b>	<b>12:30pm – 1:30pm</b>	<b>1:30pm – 2:00pm</b>	<b>2:00pm-3:00pm</b>
<b>Monday</b>	Seminar	Oral Medicine Posting	Slide Viewing	<b>LUNCH BREAK</b>	Thesis work
<b>Tuesday</b>	Discussion	General Pathology / Biochemistry	General Pathology Posting		Laboratory Training
<b>Wednesday</b>	Seminar	Histopathology Lab	General Pathology Posting		Thesis work
<b>Thursday</b>	Discussion	Microbiology / Hospital Posting	Microbiology/ Haematology Posting		UG Practicals
<b>Friday</b>	Thesis Work	Oral Pathology Basics	Slide Viewing		Dermatology/ Forensic Odontology
<b>Saturday</b>	Discussion	Histopathology Lab			Journal Club

**DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY**

**Scheduled Time Table for MDS IV th Semester Batch 2020-23**

**January – June 2023**

<b>Time Day</b>	<b>8:30am – 10:00am</b>	<b>10:00am - 12:30pm</b>	<b>12:30pm – 1:30pm</b>	<b>1:30pm – 2:00pm</b>	<b>2:00pm- 4:00pm</b>
<b>Monday</b>	Seminar	Oral Medicine Posting	Slide Viewing	<b>LUNCH BREAK</b>	Thesis work
<b>Tuesday</b>	Discussion	Slide Discussion	General Pathology Posting		Laboratory Procedure
<b>Wednesday</b>	Seminar	Histopathology Lab	General Pathology Posting		Thesis
<b>Thursday</b>	Discussion	General Pathology / Microbiology	Microbiology/ Haematology Posting		UG Theory Class
<b>Friday</b>	Thesis Work	Slide Discussion	Slide Viewing		Dermatology/ Forensic Odontology
<b>Saturday</b>	Discussion	Histopathology Lab			Journal Club

**Scheduled Time Table for MDS Vth Semester Batch 2020- 23**

**Jul – Dec 2023**

<b>Time Day</b>	<b>8:30am – 10:00am</b>	<b>10:00am – 12:30pm</b>	<b>12:30pm – 1:30pm</b>	<b>1.30pm - 2.00pm</b>	<b>2:00pm – 4:00pm</b>
<b>Monday</b>	Seminar	Clinical Posting Oral Medicine/ Oral Surgery/ Dharamshila Cancer Hospital	Slide viewing & reporting	<b>LUNCH BREAK</b>	Thesis
<b>Tuesday</b>	Discussion	Clinical Posting Oral Medicine/ Oral Surgery/ Dharamshila Cancer Hospital	Thesis		UG Classes
<b>Wednesday</b>	Seminar	Histopathology Lab Work	Oral Immunology/ Biotechnology		Slide discussion and reporting on Archival material
<b>Thursday</b>	Discussion	Clinical Posting Oral Medicine/ Oral Surgery/ Dharamshila Cancer Hospital	Oral Immunology		Experimental Pathology
<b>Friday</b>	Thesis Work	Clinical Posting Oral Medicine/ Oral Surgery/ Dharamshila Cancer Hospital	Slide viewing & reporting		Forensic Odontology
<b>Saturday</b>	Discussion	Histopathology Lab Work			Journal Club

## **I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

### **Department of Oral & Maxillofacial Pathology & Microbiology**

#### **I Year**

1. To complete the basic sciences subject before the completion of I year
2. To finish all the discussion of I year BDS topics
3. To prepare the record book of I year BDS
4. To prepare 20 ground section of teeth
5. To collect normal tissue specimen from the human beings
6. To complete 5 tooth Decalcification
7. To present synopsis for the main dissertation and complete the library dissertation
8. Carving of the deciduous and permanent dentition
9. Proper maintenance of the records
10. Prepare neutral buffered formalin
11. To receive biopsy specimen from various Department
12. To help in I year BDS practical
13. To present 10 anomalies with case report radiograph and photograph
14. Poster presentation in the national conference
15. To prepare smear from various normal and abnormal tissues
16. To prepare 20 slide of cytology with reporting of the same
17. To study the microtome, microscope.
18. To prepare 10 slide of abnormal blood picture
19. To know about the sharpening of the microtome knife
20. To prepare 10 slide of bone ground section

## Discussion I year Topics

- Cell Biology : Ultrastructural features  
: Molecular aspects  
: Intercellular junction  
: Cell cycle & cell division  
: Cell cycle regulators  
: Cell to cell & cell –ultracellular interactions
  
- Histological of epithelial tissues & glands : Epithelial & non epithelial  
: Glands
  
- General connective tissue
- Specific connective tissue
- Haematopoietic system
- Muscle & neural tissue
- Digestive system with stomach, liver, pancreas & intestine
- Urinary system : Kidney
- Endocrine system : Hormones
  
- Biochemistry : Carbohydrates  
: Lipids  
: Cell filtration & Centrifugation  
: Electrophoresis  
: Spectrophotometer  
: Radioactive techniques
  
- General Pathology : Cellular changes  
: Degeneration & necrosis  
: Repair  
: Inflammation & Chemical mediators  
: Edema, thrombosis & embolism  
: Hemorrhage & shock  
: Blood dyscrasias  
: Neoplasia
  
- Microbiology : Immunity  
: Ag – Ab reactions  
: Graft vs host reaction (Autoimmune)

- Embryology of the head, Face and Oral Cavity,
- Structure of the Oral Tissues
- Development of the tooth and its Supporting Tissues
- Fibroblasts and Their Products
- Epithelial – Mesenchymal Relations
- Hard Tissue formation and destruction
- Bone
- Dentinogenesis
- Dentin pulp complex
- Amelogenesis
- Enamel Structure
- Periodontium
- Physiological Tooth Movement : Eruption and Shedding
- Surface Coatings of the Teeth
- Salivary Glands
- Oral Mucosa
- Temporomandibular Joint
- Repair and Regeneration of Dental tissue

## I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

### Department of Oral & Maxillofacial Pathology & Microbiology

#### II Year MDS

#### List of submission

1. Assisting III BDS Practicals
2. II Year lecture – 02 topics
3. 15 cases to be presented of Premalignant & Benign lesions
4. Preparation of ground section : 10 Teeth with pathology & 05 Bone
5. Decalcified Section :- 05 Bone 05 Tooth
6. Tissue processing :- 05 Per month
7. Special stain slides of various stains :- 02 per month (any 01 stain)
8. Cytology slides :- 02 slides / Week
9. Microbial staining :- 10 per stain (ZN and gram)
10. III BDS slides diagram
11. Carving of permanent and deciduous teeth
12. 01 caries activity test
13. Discussion on pathology topics
14. Slide discussion once per week
15. Posting in following Department
  1. Biochemistry
  2. Oral Diagnosis
  3. Microbiology
  4. General Pathology

## **I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

### **Department of Oral & Maxillofacial Pathology & Microbiology**

#### **III Year MDS**

#### **List of submission**

1. Assisting III BDS Practicals
2. III Year lecture – 02 topics
3. 15 cases to be presented of Malignant & Benign lesions
4. Preparation of ground section : 10 Teeth with pathology & 05 Bone
5. Decalcified Section :- 05 Bone        05 Tooth
6. Tissue processing :- 02 Per month
7. Special stain slides of various stains    :-        02 per month (any 01 stain)
8. Cytology slides :-        02 slides / Week
9. Microbial staining        :-        10 per stain (ZN and Gram's)
10. 01 caries activity test
11. Discussion on pathology topics with recent advances
12. Slide discussion twice per week
13. Histopathology reporting



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**Department of Oral & Maxillofacial Pathology & Microbiology**

# LIST OF SEMINARS

## List of Seminars

Development of maxilla  
 Development of alveolar bone  
 Development of lip  
 Maxillary nerve  
 Development of tongue  
 Development of tooth  
 Amelogenesis  
 Disorders of enamel  
 Dentin  
 Disorders of dentin  
 Cementogenesis  
 Dental pulp  
 Periodontal ligament  
 Salivary glands  
 Bone  
 Oral mucous membrane  
 Diseases of desmosomes and hemidesmosomes  
 Basement membrane in skin diseases  
 Vesiculobullous diseases  
 Non-neoplastic gingival enlargement  
 Aggressive periodontitis  
 Reactive lesions  
 Structure of basement membrane  
 Basement membrane in health & diseases  
 Hemidesmosomes Intercellular junctions  
 Dentogingival junction  
 Keratinization in health  
 Histology of tooth eruption  
 Physiology of tooth eruption  
 Microcirculation of gingiva & periodontal ligament  
 Microcirculation of pulp  
 Gingival crevicular fluid part  
 Structure of keratin  
 Cleft lip and cleft palate  
 Oral soft tissue anomalies  
 Etiopathogenesis of osmf  
 Oral sulomucous fibrosis  
 Etiopathogenesis of osmf  
 Regressive alterations  
 General characteristics of oral bacterial lesions  
 Oral mycotic lesion  
 Osteomyelitis of jaw bones  
 Orofacial pigmentation  
 Fibro-osseous lesions  
 Cherubism  
 Osseous dysplasia  
 Ossifying fibroma of jaws  
 Epithelial mesenchymal interactions in odontogenic tumours

Desmoplastic ameloblastoma  
Unicystic ameloblastoma  
Squamous odontogenic tumor  
Adenomatoid odontogenic tumor  
Calcifying epithelial odontogenic tumor  
Odontogenic fibroma  
Calcifying odontogenic cyst and dentinogenic ghost cell tumor  
Odontome  
Hamartomatous lesions  
Odontogenic cysts  
Pediatric cysts  
Non neoplastic salivary gland lesions  
Benign salivary gland tumors  
Salivary gland lesion  
Soft tissue malignancies in children  
Lymphoma  
Chondroid tumors of oral cavity  
Connective tissue  
Norma cell  
Endoplasmic reticulum  
Characteristics of cell membrane  
Epithelium  
Junctions in oral epithelium  
Extracellular matrix  
Ground substance  
Melanocytes  
Antigen presenting cell  
Merkel cells  
Langerhan's cell in health & disease  
Structure of lymph node  
Chronic inflammation  
Healing of oral wounds  
Apoptosis and necrosis  
Apoptosis  
Necrosis  
Degeneration  
Degeneration  
Keratinization in disease  
Mechanism of metastasis  
Hematogenous spread of tumor  
Vascular dissemination  
Invasion and metastasis  
Oral microbial flora  
Classification of micro organisms  
General characteristics of bacteria  
Gram negative micro organisms  
Oral biopsy  
Streptococcus mutans  
Lactobacillus  
Staphylococcus  
Retrovirus

Candida  
 Human oncogenic viruses  
 Herpes viruses  
 Lab diagnosis of viral lesions  
 General characteristics & pathogenesis of viral lesions  
 Colorimetry  
 Dna microarray  
 Radio – immunoassay  
 Stains & staining technique  
 Haematoxylin stain  
 Haematoxylin and eosin stain  
 H & e staining in frozen section  
 Eosin  
 Staining of Cytoplasmic granules and organelles  
 Protein & nucleic acid stain  
 Romanowsky stain  
 Pas and pap staining  
 Special stains in odontogenic tumors  
 Stains for mucin  
 Museum techniques  
 Fixation  
 Tissue processing for soft structures  
   Tissue processing for hard structures  
 Soft tissue processing for light microscopy  
 Tissue processing for electron microscopy  
 Embedding technique  
 Microtomy  
 Artifacts in routine histopathology  
 Photomicrography  
 Immunohistochemistry in Odontogenic tumors  
 Biopsy  
 Fine needle aspiration cytology  
 Spectrophotometry  
 Centrifugation & filtration technique  
 Polymerase chain reaction  
 Frozen section technique  
 Autofluorescence  
 Electrophoreses  
 Nucleic acid hybridization methods  
 Blood as a diagnostic fluid  
 Lab diagnosis of anemia  
 The concept of sentinel lymph node Biopsy  
 Components of light microscope  
 Microscope part I  
 Light and its properties  
 Properties of light & its applications  
 Theory & practice of light microscopy  
 Light microscopy  
 Principles of electron microscopy  
 Microscope part 4  
 Transmission electron microscopy

Scanning electron microscopy  
Structure of the normal human cell under different magnification  
Phase contrast microscopy  
Dental agenesis  
Role of calcium & phosphorus in oral cavity  
Calcium & phosphorus metabolism  
Mastication  
Methods of estimation and its disorders  
Pain  
Speech  
Deglutition  
Psychosomatic disorders of oral tissues  
Radioactive techniques  
Tumour angiogenesis  
Carcinogenesis  
Tumour immunology  
Field cancerization  
Antigen antibody reactions  
Carcinogenesis  
Radiation carcinogenesis  
Telomeres & telomerase  
Integrins  
Tumor necrosis factor  
P53  
M-r n a and its role in normal cell function

I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

**Department of Oral & Maxillofacial Pathology & Microbiology**

# MODEL CHECK LISTS FOR P.G. ACTIVITIES

## CHECK LIST AND LOG BOOKS

### CHECK LIST – 1

#### MODEL CHECK LIST FOR EVALUATION OF JOURNAL REVIEW PRESENTATIONS

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S/No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chose was					
2	Extent of understanding of scope & objective of the paper by the candidate					
3	Whether cross – reference have been consulted					
4	Whether other relevant publications consulted					
5	Ability to respond to question on the paper / subject					
6	Audio – Visual aids used					
7	Ability to defend the paper					
8	Clarity to presentation					
9	Any other observation					
	<b>Total Score</b>					

CHECK LIST – 2  
MODEL CHECK LIST FOR EVALUATION OF SEMINAR PRESENTATIONS

*Name of the trainee:*

*Date:*

*Name of the Faculty / Observer:*

S/No.	Items for Observation During Presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted					
2	Whether cross-references have been consulted					
3	Completeness of preparation					
4	Clarity of presentation					
5	Understanding of subject					
6	Ability to answer the questions					
7	Time scheduling					
8	Appropriate use of audio – visual aids					
9	Over all performance					
10	Any other observation					
<b>Total Score.</b>						



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### CHECK LIST – 3

#### MODEL CHECK LIST FOR EVALUATION OF CLINICAL WORK IN OPD

(To be completed once a moth by respective Unite Heads including posting in other department)

Name of the Trainee:

Date:

Name of the Faculty/ Observer:

S/No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
11	Completeness of History					
12	Whether all relevant points elicited					
13	Clarity of presentation					
14	Logical order					
15	Mentioned all positive and negative					
16	Accuracy of general physical examination					
17	Diagnosis: Whether it follows logically from history and findings					
18	Investigations required					
19	Ability to react to questioning whether it follows logically from history and findings					
20	Ability to defend diagnosis					
21	Ability to justified differential diagnosis					
22	Others					
	<b>Grand Total</b>					

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**CHECK LIST – 4**

**MODEL CHECK LIST FOR EVALUATION OF CLINICAL CASE  
PRESENTATION**

Name of the Trainee:

Date:

Name of the Faculty/ Observer:

S/No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of History					
2	Whether all relevant points elicited					
3	Clarity of presentation					
4	Logical order					
5	Mentioned all positive and negative					
6	Accuracy of general physical examination					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required					
9	Ability to react to questioning whether it follows logically from history and findings					
10	Ability to defend diagnosis					
11	Ability to justified differential diagnosis					
12	Others					
	<b>Grand Total</b>					

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**CHECK LIST – 5**

**MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL**

Name of the Trainee:

Date:

Name of the Faculty/ Observer:

S/No.		Strong Point	Weak Point
1	Communication of the purpose of the talk		
2	Evokes audience interest in the subject		
3	The introduction		
4	The sequence in ideas		
5	The use of practical examples and / or illustrations		
6	Speaking style (enjoyable, monotonous, etc, specify)		
7	Attempt audience participation		
8	Summary of the main points at the end		
9	Ask questions		
10	Answer questions asked by the audience		
11	Rapport of speaker with his audience		
12	Effectiveness of the talk		
13	Uses AV aids appropriately		

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**CHECK LIST – 6**

**MODEL CHECK LIST FOR DISSERTATION PRESENTATION**

Name of the Trainee:

Date:

Name of the Faculty/ Observer:

S/No.	Prints to be considered	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Interest shown in selecting topic					
2	Appropriate review					
3	Discussion with guide and other faculty					
4	Quality of protocol					
5	Preparation of proforma					
	<b>Total Score</b>					

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**CHECK LIST – 7**

**CONTINUOUS EVALUATION OF DISSERTATION WORK BY GUIDE / CO-GUIDE**

Name of the Trainee:

Date:

Name of the Faculty/ Observer:

S/No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Periodic consultation with guide / co-guide					
2	Regular collection of case material					
3	Depth of analysis / Discussion					
4	Department presentation of findings					
5	Quality of final output					
6	Others					
	<b>Total Score</b>					

**Signature of HOD**

The above overall assessment sheet used along with the logbooks should form the basis for certifying satisfactory completion of course of study, in addition to the attendance requirement.

K.E.Y:

**Faculty member:** Name of the faculty doing the assessment.

**Mean Score:** Is the sum of all the scores of checklist 1 to 7.

A.B, ..... Name of the trainees.

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**CHECK LIST – 8**

**OVERALL ASSESSMENT SHEET**

Date:

S.No.	Faculty Member	Name of the trainee and mean score									
		A	B	C	D	E	F	G	H	I	J
1											
2											
3											
4											
5											
6											

**Signature of HOD  
Principal**

**Signature of**

# **I.T.S CENTRE FOR DENTAL STUDIES AND RESEARCH**

**Delhi – Meerut Road, Muradnagar, Ghaziabad 201206**

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## **DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY AND ORAL IMPLANTOLOGY**

**M.D.S  
REGULATION, SYLLABUS AND CURRICULUM**

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH  
MURADNAGAR, GHAZIABAD**

Department of Oral and Maxillofacial Surgery

**FACULTY**

Dr. Rahul Kashyap	Professor & Head
Dr. Aakash Arora	Professor
Dr. Amit Gupta	Reader
Dr. Vidhi C Rathi	Reader
Dr. Suman Yadav	Reader
Dr. Mimansha Bhoj	Reader
Dr. Pallavi Srivastava	Sr. Lecturer
Dr. Shivam Agarwal	Sr. Lecture
Dr. Birsubhra Roy	Sr. Lecturer
Dr. Varun Kochar	Sr. Lecturer
Dr. Pallav Raj	Sr. Lecturer
Dr. Niharika Jain	Tutor



## POST GRADUATE TRAINING PROGRAMME

### MDS – ORAL & MAXILLOFACIAL SURGERY

#### OBJECTIVE OF COURSE

The training programme in oral and maxillofacial surgery is structured to achieve the following objectives –

1. Knowledge
2. Skills
3. Attitude
4. Communicative skills and ability
5. Research

#### **Knowledge:**

- ❑ To have acquired adequate knowledge and understanding of the etiology, pathophysiology, diagnosis and treatment planning of various common oral and maxillofacial surgical problems.
- ❑ To have understood the general surgical principles in patient management
- ❑ Understanding of basic sciences relevant to practice of oral and maxillofacial surgery.
- ❑ To identify social, cultural, economic, genetic and environmental factors and their relevance to the disease process.
- ❑ Essential knowledge of personal hygiene infection control, prevention of cross infection, safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.

#### **Skills:**

- ❑ To obtain proper clinical history with methodical examination of the patient, perform essential diagnostic procedures and relevant laboratory tests As to arrive at a reasonable diagnosis about the surgical condition. To perform with competence minor & major oral surgical procedures,
- ❑ Capable of providing care for maxillofacial surgery patients.

**Attitudes:**

- ❑ Develop attitude to adopt ethical principles in all aspects of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.
- ❑ Willing to share the knowledge and clinical experience with professional colleagues.
- ❑ Willing to adopt new methods and techniques of surgical management developed from time to time based on scientific research, which are in the best interest of the patient.
- ❑ Respect patient's rights and privileges, including patients right to information and right to seek a second opinion.
- ❑ Develop attitude to seek opinion from allied medical and dental specialists as and when required.

**Communication skills:**

- ❑ Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time.
- ❑ Develop the ability to communicate with professional colleagues.
- ❑ Develop ability to teach undergraduates.

## INSTRUCTIONS TO M.D.S. STUDENTS

10. They should possess all the required armamentarium necessary for “PRE-CLINICAL EXERCISES” as well as “MINOR SURGERY” when they report to the department. This includes:

General Requirements	Wiring Exercises	Suturing Techniques	Plating Exercises	Minor Surgery Kit
Steel Tray with cover (12in X 8in.) -02	Wire twisters - 02	Needle Holder (8 in.)-01	Skull-01 Mandible-01	BP handle No. 3-01 Howarth's periosteal elevator-01
Green cloth drapes (3ftX3ft) – 06	Wire cutter (surgical)-01	Suture-cutting scissors-01	Stainless steel plates with screws : 1.5 mm R & L L-shaped 4-hole with gap-02	Moon's probe-01 Dial's periosteal elevator-01 Austin's flap retractor-01
Digital Camera	26 G wire loop-01	Toothed dissecting forceps (8 in.)-01	1.5 mm straight 4-hole plates with gap- 02	Mouth prop set-01
Lap-top	Erich's arch-bar-02	Black braided silk roll (3-0)-01	1.5 mm straight 4 hole plate without gap-02	Straight hand-piece with Lubricating Oil-01
Clean Apron		Small Pillow-01	2.0 mm straight 2.0 mm	Steel/Carbide burs round No. 8 and tapered fissure No. 702- 10 each
Stethoscope			2.0 mm straight 4 hole plates with gap -04	Coupland Elevators set of 3 sizes. Cryer's elevators set of 02 instruments Apexo elevators set of 02 instruments Warwick-James elevators set of 02 instruments.
Torch				Double-ended curette-01 Non-toothed tissue holding forceps-01 Bone File-01 Rongeurs-01

11. The time given for the pre-clinical exercises should be strictly adhered to, failing which adverse remarks shall be entered in their personal files and logbook.

12. Written tests will be conducted at regular intervals to assess the progress of the student.

13. No leave shall be taken without **prior** permission of the HOD, Oral & Maxillofacial Surgery. In case of medical leave, a medical certificate will have to be submitted.

14. Students will be allowed to start clinical work only after completion of basic exercises.

15. Students not progressing as per schedule will have to meet the Principal regarding permission to continue.

16. Students shall not use “Departmental Instruments” as far as possible for their preclinical or minor surgical work.
17. Students should attend clinics/ postings/ basic subject classes as per Time-table.
18. A “Library Dissertation” topic should be submitted within one month of commencement and the completed dissertation should be submitted by the end of second year of the course.
19. The topic for the main dissertation has to be selected and finalized within 4 months after commencement of the course and the completed final dissertation should be submitted 6 months before the final MDS examination.
20. Seminars & Journal clubs shall be conducted according to the prescribed time table. Seminar & Journal club topics shall be displayed in advance on the department notice board.
21. Also the seminar format should be approved one week before the actual presentation from respective guide. The students should submit in writing all seminars (05 per year) to the department after approval from his/her guide within a week after presentation.
22. All G.A. cases will be presented by the postgraduates within one week of surgery.
23. All PGs are expected to become student-members of AOMSI as soon as possible if they desire to present papers/ posters in National or State-level conferences.

***Learning in postgraduate programme shall be essentially autonomous and self directed.***

## **POSTGRADUATE COURSE IN ORAL & MAXILLOFACIAL SURGERY**

### **The course shall be given in the following forms**

1. Didactic lectures, seminars and demonstrations. The students will follow the accepted training path of observation, assisting and performing surgeries under supervision.
2. Didactic lectures will be taken only in Basic Medical subjects in the first term of first year. Attendance will be compulsory.
3. Seminars will be distributed according to the syllabus to be covered in each year and it will be held once a week for each year.
4. There will be journal club once a week for each year starting from second year. Each student will be assigned a journal of Oral & Maxillofacial Surgery or of allied sciences for this purpose of Oral & Maxillofacial Surgery or of allied sciences for this purpose to review the more important articles that have appeared in current journals irrespective of topic to give practice to the student in comprehension and presentation of the data and his own views before a group.
5. Clinical case presentation prior to OT – the student will present all data for discussion in the morning of the surgery to assembled faculty and students.
6. The students will work on patients in the clinics, both in the mornings and in the afternoons under the supervision of the teachers.
7. Peripheral postings – each student will be required to undergo compulsory peripheral posting for in anesthesia, orthopaedics, neurosurgery, otolaryngology and oncosurgery etc (see below) in the first term of second year as per the time-table.
8. Training in methodology of teaching – the postgraduate will attend the undergraduate classes to learn the methodology of teaching and they will be encouraged to teach the undergraduate students under supervision.
9. Internal assessment examination will be conducted after every 6 months.

## COURSE PLAN

MDS in Oral and Maxillofacial Surgery would be a 3 Year program divided into 6 terms of 6 months each. The candidate is required to furnish :

1. All pre-clinical exercises along with written description of each exercise
2. Library dissertation
3. Log-book containing the details of the operative procedures and clinical postings
4. Main dissertation

before writing the final examinations.

### 1<sup>ST</sup> YEAR

#### **1<sup>st</sup> Term**

Submission of library dissertation within one month of joining

Submission of main dissertation protocol within 4 months of joining the course

Preclinical exercises on models /pillow/skull within 6 months of joining the course

Dissection for anatomy of face, head and neck

Understanding basic surgical procedures.

Attending ward rounds / OT

Preliminary care of inpatients.

Emergency Department (15 days)

Seminar presentations

#### **2<sup>nd</sup> Term**

Minor oral surgical procedures including Basic Exodontia

Performing procedures under local Anaesthesia independently.

Supervising exodontias for 3<sup>rd</sup> and final year students.

In patients ward duties.

At the end of 1<sup>st</sup> year the candidate is required to furnish work details duly signed by the allied department's in-charge .

**2<sup>ND</sup> YEAR****1<sup>st</sup> Term**

In patient ward duties.

Presentation of seminars

Lectures for third year students as part of curriculum

Dissertation & research work

Clinical case discussion

Peripheral postings in :Orthopedic (15days), Neurosurgery (15days), ENT (15 days),

Cancer hospital (1 month), General surgery(15 days),General medicine(15 days)

Anesthesia (15 days)

**2<sup>nd</sup> Term**

Minor oral surgeries

Major OT postings

Seminar Presentations

Theory Lectures for III BDS students

Dissertation discussion

**3<sup>RD</sup> YEAR****1<sup>st</sup> term**

Oral and maxillofacial surgical procedures

Submission of dissertation

**2<sup>nd</sup> Term** - Submission of logbook for assessment

Library dissertation.

Routine clinical activities

Besides above curriculum the candidate will be encouraged to present two scientific papers/posters in the national / international conference during the program tenure.

The candidate is required to keep the case records (history, photographs, follow- up records) of all the procedures undertaken by him/her during the program to be submitted for final assessment at the end of academic year every year.

## **COURSE CONTENT**

### **Biostatistics**

Introduction, collection, classification and presentation, averages (mean, median, mode), dispersion, skewness and kurtosis, correlation, regression, binomial, poisson and normal distribution, tests of significance (large samples),  $\chi^2$  t and p test, clinical trials principles of research methodology types of research: basic or fundamental, applied, clinical, experimental, open trials, double blind, cross over methods, qualification in research methodology, records, protocols and analysis.

### **Applied Human Anatomy / Physiology / Pharmacology/ Pathology**

Head and neck anatomy, with special reference to surgical anatomy of head and neck. Anatomy of the flaps used in facial reconstruction. Cardiovascular system, respiratory system, nervous system, physiology of blood and components. Pharmacology of analgesics antibiotics, hypnotics local anaesthetics, general anaesthetics, chemotherapeutics for oral cancers, antihypertensive drugs.

### **Allied subject of medicine/ surgery ENT/ plastic/ orthopaedics:**

Materials and content related to oral and Maxillofacial surgery

### **ANAESTHESIA & PAIN CONTROL.**

Evaluation monitoring and ICU workup.

Local anaesthesia.

Parenteral sedation.

Pharmacology – sedation for paediatric patients.

General anaesthesia for out patient.

Complication of anaesthesia

Management of acute post operative pain.

Chronic head and neck pain.

Medical and surgical management of orofacial pain.



## **DENTO ALVEOLAR SURGERY**

Basic Exodontia.

Complicated Exodontia.

Surgical management of impacted teeth.

Ectopically erupted teeth, tooth reimplantation and transplantation.

Surgical up righting.

Paediatric dentoalveolar surgery.

## **PRACTICE MANAGEMENT SYSTEMS IN ORAL MAXILLOFACIAL SURGERY OFFICE.**

### **1. MANAGEMENT OF INFECTIONS**

Diagnosis and management of Odontogenic infections of head and neck.

Osteomyelitis – various types – diagnosis and management,

Osteoradionecrosis.

### **2. TRAUMA**

Diagnosis and management of complex maxillofacial injuries. Dentoalveolar injuries, mandibular fractures, maxillary fractures, Zygomatic complex fractures, orbital trauma. Naso-orbito-ethmoidal fracture.

### **3. ORTHOGNATHIC SURGERY**

Diagnosis and treatment planning

Patient selection and application of VTO to orthognathic surgery.

Orthognathic model surgery.

Scientific bases for orthognathic surgery.

### **Maxillary and Midfacial Procedures**

Surgical assisted maxillary expansion, LeFort I osteotomy, anterior and posterior maxillary segmental osteotomies, maxillary quadrangular LeFort I and quadrangular LeFort II osteotomy.

### **Mandibular Procedures**

Bilateral sagittal split osteotomy: advancement and setback, vertical rams osteotomy and inverted L osteotomy. Anterior mandibular subapical osteotomy, genioplasty.

### **Bi Jaw Surgery**

Combined maxillary and mandibular surgery.

### **Special Consideration.**

Functional outcomes following orthognathic surgery. Soft tissue changes associated with orthognathic surgery, psychological ramifications of orthognathic surgery. Surgery before and completion of growth. Obstructive sleep apnoea syndrome management, Rehabilitation after orthognathic surgery.

### **DISTRACTION OSTEOGENESIS**

Basic procedures and application in maxillofacial surgery-intraoral / extraoral distraction.

### **TEMPOROMANDIBULAR JOINT DISORDERS**

#### **Principles of TMJ Management**

- Developmental and clinical anatomy and physiology, congenital and developmental TMJ disorders. Masticatory myalgias, pathophysiology of articular disk displacement of TMJ, arthritis.
- Clinical evaluation for TM disorders and orofacial pain.
- Extrajoint Therapy
- Role of splint therapy in treatment of TMJ disorders. physical therapy, management of TMJ disorders.
- Arthroscopy, surgery for internal derangement, autogenous TMJ replcement, alloplastic reconstruction, tumors of TMJ, ankylosis, dislocations.

### **SURGICAL PATHOLOGY**

Odontogenic cysts & tumours, Non Odontogenic tumours Diagnostic and surgical considerations, head and neck medical oncology.

### **CLEFT / CRANIOFACIAL / COSMETIC SURGERY**

- **Cleft Lip and Palate**  
Embryogenesis and comprehensive management of the cleft patient. Use of orthopaedic appliances in growth modification, Alveolar bone grating Orthognathic surgery in cleft patients.
- **Craniofacial Surgery**  
Classification & management of craniofacial dysmorphogenesis. Craniosynostosis and craniofacial dysostosis. Orbital hypertelorism, facial microsomia.
- **Cosmetic Surgery**  
Rhinoplasty, Rhytidectomy, Facial suction surgery and lipectomy, Alloplastic augmentation of maxillofacial region.

## **RECONSTRUCTIVE AND IMPLANT SURGERY**

- **Preprosthetic Surgery**

Physiology and pathology of prosthetic ridges and basic prosthetic surgical operation including vestibuloplasty, ridge augmentation. Reconstruction of edentulous maxilla and rehabilitation of edentulous mandible.

- **Implantology.**

Principles of surgical placement of endosseous implants, Soft tissue consideration in implants, Guided tissue regeneration, Maxillary sinus grafts Implant retained facial prosthesis, implant failures

Reconstruction of Maxillofacial defect following ablative surgeries with local & Regional flaps.

## EXAMINATION

### There would be 4 theory papers

Paper I	Applied human anatomy, surgical anatomy, physiology. General and surgical pathology, statistics, basic oral surgery,
Paper II	Trauma, infections, preprosthetic, oral oncology-benign and malignant.
Paper III	TMJ, cleft, implantology, orthognathic surgery
Paper IV	Essay

### Practical / Clinical

#### 1. Procedure:

- a. Surgical extraction of deeply placed impacted molar under general anaesthesia.

#### 2. Long Case

Complete work-up, history with detailed examination and differential diagnosis and management.

#### 3. Short Case

Diagnosis & Management + Viva

#### 4. Viva

There would be oral viva on the procedure and the long case. Grand viva on dissertation and the subject.

## **PRECLINICAL EXERCISES**

### **1. Suturing Techniques**

- ❖ Simple interrupted
- ❖ Continuous
- ❖ Locking continuous
- ❖ Mattress
  - Horizontal
  - Vertical
- ❖ Figure of eight

### **2. Wiring Techniques on Casts**

- ❖ Direct wiring
- ❖ Eyelet wiring
- ❖ Arch bar
  - Williams
  - Modified Williams
- ❖ Essig's wiring
- ❖ Risdon's wiring
- ❖ Figure of eight

### **3. Acrylic Splint Fabrication**

### **4. Mouth Opening Exerciser**

### **5. Mock Surgery & Cephalometric Analysis for Orthognathic surgical procedures**

## INTERNAL EXAMINATION SCHEDULE

### ❖ FIRST YEAR 1<sup>st</sup> TERM.

- Theory paper- 3 hr. duration including Basic Sciences (100 Marks)
- Practical exam- \* surgical removal of tooth – 1 hr. (50 Marks )  
\* VIVA in Applied Basic Sciences (50 Marks )

### ❖ FIRST YEAR 2<sup>nd</sup> TERM

- Theory paper: on previous seminar topics ( 3 hr.)
- Practical Exam : Complicated Exodontia
- VIVA – \* Basic local anesthesia  
\* Basic Exodontia  
\* Impaction
- Minor Case Presentation.

### ❖ SECOND YEAR 1<sup>st</sup> TERM END

- Theory Exam (100 marks) : on previous seminar topics held – (3 hr.)
- Practical Exam: \*Surgical removal of impacted lower third molar (1 hr.)  
\* VIVA on Minor Surgical Procedures

### ❖ SECOND YEAR 2<sup>nd</sup> TERM

- Theory Exam (100 marks): on previous seminar topics held – (3 hr.)
- Practical Exam: \*Impaction procedures – 1 hr.  
- Case history – 15 min.  
- VIVA – 15 min.  
\* Minor case discussion  
- Case history and examination – 30 min.  
- Viva on management of the case – 30 min.

### ❖ THIRD YEAR 1<sup>st</sup> TERM

Theory: 3 hr. duration on spectrum of Maxillofacial Surgery

Practical: VIVA: Dissertation discussion

Clinical: Surgical removal of difficult impaction – Class II/ III,

Position B / C

: Minor case presentation

: Major case discussion

❖ END OF THIRD OF YEAR – UNIVERSITY EXAMINATION

○ **Theory**

Paper I. Basic sciences applied

Paper II. Trauma and Anesthesiology

Paper III. Minor Oral surgery

Paper IV. Major surgery & recent advances

○ **Practical**

- (DAY 1) Surgical removal of impacted mandibular III molar (class II/III& Position B/ C)  
 Major Case – Case presentation & VIVA on Case history, Clinical examination, diagnosis & Management .  
 Minor Case - Case presentation & VIVA on Case history, Clinical examination, diagnosis & Management.
- (DAY 2) Dissertation presentation

Grand VIVA

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**  
MURADNAGAR, GHAZIABAD

**DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY**

**PERIPHERAL POSTINGS FOR PG STUDENTS**

ONCOLOGY	DHARMSHILA HOSPITAL / RGCI
NEUROSURGERY	NARENDER MOHAN HOSPITAL
ENT, ANESTHESIA, PLASTIC SURGERY, EMERGENCY, GENERAL SURGERY.	I.T.S SURYA HOSPITAL

**TIME TABLE (subject to change 4 monthly)**

**NOTE:**

- Emergency and night duties will be notified on monthly duty roster basis.
- Emergency OT duties will be performed on day to day need basis
- Academic work for PGs is to be supervised between 8.30 A.M and 10.30 A.M and between 2.00 and 3.00 P.M.
- PGs posted in PG clinic/OT will report to OPD between 10.30 A.M and 2.00 P.M, if there is no pending clinical work.
- OPD PGs can take patients for treatment in PG clinic with permission of their unit faculty as well as faculty posted in PG clinic.
- Recall patients will be called only on allotted PG clinic days
- Emergency duties will commence from 8.30 A.M to 8.30 A.M. Post-op. duties will commence from end of OT to 8.30 A.M next day.
- Handing-over of admitted cases shall take place at 8.00 A.M in morning.
- Emergencies admitted during the night will be managed initially by PG-on-emergency duty but shall be handed over to PG on OPD duty next day for definitive management.
- Cases admitted during the weekend will be handed over to PG on OPD duty on Monday for definitive management.
- No exchange of duties will be permitted under normal circumstances. In pressing circumstances, exchange of duties will be permitted ONLY with prior permission of Unit head limited to once/month.
- Rotation for PGs will be on a monthly basis. However, admitted cases will be continued to be seen by PGs who have assisted in surgery until the patient is discharged.
- NOT RESPONDING TO CALL WHILE ON DUTY WILL BE VIEWED VERY SERIOUSLY



## **PG STUDENTS LOG BOOK**

### **CONTENTS**

- 1. PROFILE**
- 2. CLINICAL WORK DONE**
  - a. Major OT Cases**
  - b. Minor Surgery Cases**
  - c. Emergency Duty Cases**
- 3. ACADEMIC ACTIVITIES**
  - a. Seminars presented**
  - b. Journals presented**
  - c. Classes taken for undergraduates**
  - d. Presentations in conference**
  - e. Conferences attended**
  - f. CME/ workshops attended**
  - g. Peripheral postings**
- 4. CERTIFICATES PROCURED**

**MINOR SURGICAL PROCEDURES**

❖ Impaction surgeries.	-	70 Cases
❖ Alveoplasties.	-	50 Cases
❖ Biopsy.	-	20 Cases
❖ Trauma cases.	-	20 Cases
❖ Miscellaneous.	-	

**IMPACTIONS**

Date	O.P. No.	Patient's Name	Diagnosis	Procedures	Category P/A	Signature

**MAJOR SURGICAL PROCEDURES**

Date	O.P. No.	Patient's Name	Diagnosis	Procedures	Category O / A / PI	Surgeon	Anaesthetist	Signature

O– Observed

A – Assisted

PI – Performed independently

**MAJOR SURGERIES ATTENDED**

Date	O.P. No.	Patient's Name	Diagnosis	Procedures	Signature

## LIST OF SEMINARS PRESENTED

S.No.	SEMINAR TOPIC PRESENTED	DATE	GUIDE'S REMARKS	HOD
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				

### BASIC SEMINAR TOPICS

S.No.	Topics
1	Surgical anatomy of the Mandible
2	Surgical anatomy of the maxilla
3	Applied anatomy of cranial bones
4	Surgical anatomy of the orbit
5	Anatomy of naso-orbito-ethmoid complex
6	Surgical anatomy of maxillary sinus
7	TMJ Surgical Anatomy
8	Venous drainage of Head & neck - Surgical Implications
9	Arterial supply of Head & neck with surgical implications
10	Lymphatic drainage of Head & Neck with surgical implicaton.
11	Muscles of mastication & their role in TMJ function
12	Muscles of facial expression
13	Applied anatomy of cranial nerves-I& II
14	Applied anatomy of cranial nerves - III, IV & VI
15	Trigeminal nerve - Clinical applications.
16	Facial nerve & It's clinical implications
17	Applied anatomy of cranial nerves VIII, IX & X
18	Applied anatomy of cranial nerves - XI, & XII
19	Applied anatomy of facial spaces
20	Surgical anatomy of tongue
21	Surgical anatomy of Scalp
22	Anatomy of eye ball with emphasis on ocular musculature
23	Dural venus sinuses with emphasis on cavernous sinus
24	Submandibular gland - Applied anatomy
25	Parotid gland - Applied anatomy
26	Surgical anatomy of soft palate
27	Pharngeal musculature
28	Laryngeal cartilages & musculature
29	Triangles of Head & Neck – Anterior triangle
30	Posterior Triangle contents implications
31	Hyoid bone & its muscle attachments
32	Styloid apparatus - Applied anatomy
33	Thyroid gland with its surgical anatomy
34	Lateral wall of Nose - applied anatomy
35	Development of Pharyngeal arches
36	Development of Mandible & anomalies
37	Development of Midface & anomalies
38	Developmet of Tongue & anomalies

39	Basic physiology of nerve conduction & its application to local anesthesia
40	Pathophysiology of pain
41	Mechanism of Hemostasis & hemostatic agents
42	Bloods & its components
43	Blood groups
44	Blood transfusion in maxillofacial procedures
45	Regulation of blood pressure
46	control of respiration
47	Regulation of blood sugar - hormonal control
48	Physiology of Adrenal cortex with emphasis on Adrenal Insufficiency
49	Regulation of Thyroid hormonal secretions
50	H.P.A. Axis
51	Formation of urine
52	Calcium & Phosphorous metabolism
53	Iron Metabolism
54	Fluid & Electrolyte balance
55	Hemorrhage
56	Pathophysiology of shock
57	Temperature regulation
58	Pharmacological management of orofacial pain
59	Role of corticosteroids in OMFS
60	Principles of antibiotic therapy
61	Muscle relaxants in OMFS
62	Complications of General anesthesia in OMFS
63	Role of Coagulants & Anticoagulants in OMFS

### CLINICAL SEMINAR TOPICS

S.No.	Topics
1	General & radiological assessment of Impacted teeth.
2	Principles of suturing & suturing techniques
3	Role of HBO in the management of ORN
4	Surgical approaches to the TMJ
5	Management of TMJ Ankylosis
6	Internal Derangement of TMJ
7	Management of Facial paralysis
8	CSF Rhinorrhea - Diagnosis & Management
9	Various approaches to the facial skeleton
10	Diagnosis & management of middle third fractures
11	Diagnosis & Management of fracture mandible
12	Management of orbital blow out fractures
13	Classification of nasoethmoid complex fractures
14	Role of semirigid fixation in maxillofacial trauma



15	Xerostomia diagnosis & management
16	Surgical management of Submandibular claculi
17	Benign tumors of the salivary gland
18	Malignant tumous of the salivary gland
19	Surgical management of ameloblastoma
20	Classification of fibro-osseous & giant cell lesions
21	Management of Fibro-osseous lesions
22	Management of Giani cell lesions
23	Maxillary sinus & its implications in OMFS
24	Principles of radiotherapy
25	Role of chemotherapy in OMFS
26	Premalignant lesions/conditions their management
27	Neck surgery various modificationsin radical
28	Various incisions for RND
29	Local flaps in OMFS
30	Distant flaps in OMFS
31	Free vascular osteocutaneous flaps in OMFS
32	Evalucation of patient with maxillary excess
33	Evaluation of patient with maxillary difeciency
34	Evaluation of patient with mandibular excess
35	Management of maxillary excess
36	Management of Mandibular excess & deficiency
37	Evaluation & management of apertognathia
38	Surgical anatomy of cleft lip & palate
39	Classification & management of cleft lip
40	Classification & management of cleft palate
41	Management of trigeminal neuralgia
42	Bone grafts in OMFS
43	Role of lasers in OMFS
44	TMJ arthroscopy & arthrocentesis
45	Soft tissue pre-prosthetic surgery
46	Ridge Augmentatin Techniques
47	Preoperative evaluation of patients for dental implants
48	Various implant systems
49	Sinus lift procedure
50	Concept of osseointegration
51	Surgical consideration for implant placement
52	Biological considerations of distraction osteogenesis

## EVALUATION OF WORK

### 1. LIBRARY DISSERTATION EVALUATION

(Topic to be selected and presented within 1 month of joining course)

Presentation Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Points to be considered.	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Interest shown in selecting topic					
2	Appropriate review.					
3	Discussion with guide and other faculty.					
4	Quality of protocol.					
5	Preparation of Proforma					
	<b>Total Score</b>					

### WORK DONE

(To be completed by end of 1<sup>st</sup> term of 2<sup>nd</sup> academic year)

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Periodic consultation with guide / co-guide.					
2	Regular collection of case material					
3	Depth of analysis / Discussion.					
4	Department presentation of findings.					
5	Quality of final output.					
6	Other					
	<b>Total Score</b>					

## 2. MAIN DISSERTATION EVALUATION

(Topic to be selected and synopsis prepared & presented within 4 months of joining course)

Presentation Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Points to be considered.	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Interest shown in selecting topic					
2	Appropriate review.					
3	Discussion with guide and other faculty.					
4	Quality of protocol.					
5	Preparation of Proforma					
	Total Score					

### WORK DONE

(To be completed by end of 1<sup>st</sup> term of 3<sup>rd</sup> academic year)

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Periodic consultation with guide / co-guide.					
2	Regular collection of case material					
3	Depth of analysis / Discussion.					
4	Department presentation of findings.					
5	Quality of final output.					
6	Other					
	<b>Total Score</b>					

### 3. SEMINAR EVALUATION

**1.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**2.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**3.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**4.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**5.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**6.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**7.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**8.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**9.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**10.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					



**11.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**12.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**13.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**14.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**15.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

**16.Topic:** \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted.					
2	Whether cross-references have been consulted.					
3	Completeness of Preparation.					
4	Clarity of presentation.					
5	Understanding of subject.					
6	Ability to answer the questions.					
7	Time scheduling.					
8	Appropriate use of Audio-Visual aids					
9	Overall performance.					
10	Any other observation.					
	<b>Total Score</b>					

#### 4. JOURNAL CLUB EVALUATION

##### INDEX

S.No.	ARTICLE DETAILS PRESENTED	DATE	REMARKS
1.			
2.			
3.			
4.			
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<b>S.No.</b>	<b>ARTICLE DETAILS PRESENTED</b>	<b>DATE</b>	<b>REMARKS</b>
14.			
15.			
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27.			

**1. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_

Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					

**2. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_

Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					

**3. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_  
 Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					

**4. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_  
 Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					

**5. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_  
 Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					

**6. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_  
 Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					



**7. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_  
 Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					

**8. Article Name:** \_\_\_\_\_

Journal \_\_\_\_\_ Issue No. \_\_\_\_\_ Vol. No. \_\_\_\_\_ Year \_\_\_\_\_  
 Date: \_\_\_\_\_ Evaluator \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Article chosen was					
2	Extent of understanding of scope & objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/ subject.					
6	Audio-Visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation.					
9	Any other observation.					
	<b>Total Score</b>					

## 5. TEACHING SKILLS EVALUATION

(Two topics will be allotted for BDS Teaching during the MDS course)

Topic 1: \_\_\_\_\_

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. NO.		Strong Point	Weak Point
1	Communication of the purpose of the talk		
2	Evokes audience interest in the subject.		
3	The introduction.		
4	The sequence of ideas.		
5	The use of practical examples and /or illustrations.		
6	Speaking style (enjoyable, monotonous, etc. Specify)		
7	Attempts audience participation.		
8	Summary of the main points at the end.		
9	Asks questions.		
10	Answer questions asked by the audience <sup>3</sup> .		
11	Rapport of speaker with his audience.		
12	Effectiveness of the talk.		
13	Use AV aids appropriately.		

Topic 2: \_\_\_\_\_

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. NO.		Strong Point	Weak Point
1	Communication of the purpose of the talk		
2	Evokes audience interest in the subject.		
3	The introduction.		
4	The sequence of ideas.		
5	The use of practical examples and /or illustrations.		
6	Speaking style (enjoyable, monotonous, etc. Specify)		
7	Attempts audience participation.		
8	Summary of the main points at the end.		
9	Asks questions.		
10	Answer questions asked by the audience <sup>3</sup> .		
11	Rapport of speaker with his audience.		
12	Effectiveness of the talk.		
13	Use AV aids appropriately.		

**6. CASE PRESENTATION EVALUATION  
INDEX**

<b>S.No.</b>	<b>CASE DESCRIPTION</b>	<b>DATE</b>	<b>REMARKS OF GUIDE</b>	<b>HOD</b>
1				
2				
3				
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7				
8				
9				
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11				
12				
13				
14				

S.No.	CASE DESCRIPTION	DATE	REMARKS OF GUIDE	HOD
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28.				

**CASE 1**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 2**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 3**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 4**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 5**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 6**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 7**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 8**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					



**CASE 9**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 10**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 11**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 12**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 13**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 14**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 15**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 16**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 17**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 18**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 19**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

**CASE 20**

Date: \_\_\_\_\_ Name of the Faculty/ Observer: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Completeness of history.					
2	Whether all relevant points elicited.					
3	Clarity of presentation.					
4	Logical order.					
5	Mentioned all positive and negative.					
6	Accuracy of general physical examination.					
7	Diagnosis: Whether it follows logically from history and findings					
8	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation investigations.					
9	Ability to react to questioning Whether it follows logically from history and findings.					
10	Ability to defend diagnosis.					
11	Ability to justify differential diagnosis.					

# CLINICAL POSTING (PERIPHERAL)

(To be completed in the 2<sup>nd</sup> Term of 1<sup>st</sup> Year)

## CLINICAL WORK IN OPD EVALUATION

(To be completed by respective Heads including posting in other department)

Department: ONCOLOGY

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					

Department: EMERGENCY

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					

Department: **GENERAL MEDICINE**

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

<b>Sl. No.</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					

Department: **GENERAL SURGERY/ANAESTHESIA**

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

<b>Sl. No.</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					



Department: **OPHTHALMOLOGY**

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

<b>SI. No.</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					

Department: **NEUROLOGY**

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

<b>SI. No.</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					

Department: ENT

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					

Department: ORTHOPEDIC

Posting from: \_\_\_\_\_ To: \_\_\_\_\_ Signature of the Faculty: \_\_\_\_\_

SI. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Regularity of attendance.					
2	Punctuality.					
3	Interaction with colleagues and supportive staff.					
4	Maintenance of case records.					
5	Presentation of cases.					
6	Investigations work up.					
7	Chair-side manners.					
8	Rapport with patients.					
9	Over all quality of clinical work					
	<b>Total Score</b>					

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi- Meerut Road, Murad Nagar, Ghaziabad

Ph: 01232-225380, 225381, 225382

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# P.G. LOG BOOK

DEPARTMENT OF  
ORTHODONTICS

&

# DENTOFACIAL ORTHOPAEDICS

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**  
**Delhi- Meerut Road, Murad Nagar, Ghaziabad**

***DEPARTMENT OF ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS***

**CERTIFICATE**

This is to certify that Dr.....has satisfactorily completed the required academic work, pre-clinical and clinical work in the DEPARTMENT OF ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS prescribed by the Ch. Charan Singh University, Meerut, for the MDS course during the year 2021 to 2024.

**Professor/Guide**

**Head of the Department**

## I.T.S Centre for Dental Studies & Research

Delhi Meerut Road, Murad Nagar, Ghaziabad 201206

### *Department of Orthodontics & Dentofacial Orthopaedics*

#### Faculty

- Dr. Payal Sharma - Professor & HOD
- Dr. Piush Kumar - Professor
- Dr. Divya Shetty - Professor
- Dr. Rishibha Bhardwaj - Reader
- Dr. Monis Raza - Sr. Lecturer
- Dr. Shubhangi Jain - Sr. Lecturer
- Dr. Ridhi Tyagi - Sr. Lecturer
- Dr. Bhupender - Sr. Lecturer

# I.T.S. CENTRE FOR DENTAL STUDIES & RESEARCH

DELHI-MEERUT ROAD MURAD NAGAR, GHAZIABAD

Department of Orthodontics & Dentofacial Orthopedics

Weekly Distribution of Teaching / Clinical / Seminar / Lecture Session

## MDS Ist Semester

Day	8:30 to 10:00	10:00 to 1:00	1:00 to 1:30	1:30 to 2:30	2:30 to 4:00
Monday	Basic Science	Pre- Clinical / OPD	L U N C H	Pre- Clinical/ OPD	Preclinical / OPD
Tuesday	Seminar	Pre- Clinical/ OPD		Pre- Clinical/ OPD	Thesis Protocol / L.D. Topic
Wednesday	Seminar	Pre- Clinical/ OPD		Pre- Clinical/ OPD	Basic Science
Thursday	Basic Science	Pre- Clinical/ OPD		Pre- Clinical/ OPD	Basic Science
Friday	Journal Club	Pre- Clinical/ OPD		Pre- Clinical/ OPD	Basic Science
Saturday	Journal Club	Pre- Clinical/ OPD		Pre- Clinical/ OPD	Pre- Clinical/ OPD

## MDS IInd Semester

Day	8:30 to 10:00	10:00 to 1:00	1:00 to 1:30	1:30 to 2:30	2:30 to 4:00
Monday	Case Discussion	Clinical / OPD	L U N C H	Clinical / OPD	Clinical / OPD
Tuesday	Seminar	Clinical / OPD		Clinical / OPD	Thesis /L.D. evaluation
Wednesday	Seminar	Clinical / OPD		Clinical / OPD	Clinical / OPD
Thursday	Case Discussion	Clinical / OPD		Clinical / OPD	Clinical / OPD
Friday	Journal Club	Clinical / OPD		Clinical / OPD	Clinical / OPD
Saturday	Journal Club	Clinical / OPD		Clinical / OPD	Clinical / OPD



**I.T.S. CENTRE FOR DENTAL STUDIES & RESEARCH**  
 DELHI-MEERUT ROAD MURAD NAGAR, GHAZIABAD  
 DEPARTMENT of Orthodontics & Dentofacial - Orthopedics  
 Weekly Distribution of Teaching / Clinical / Seminar / Lecture Session

**MDS IIIrd Semester**

Day	8:30 to 10:00	10:00 to 1:00	1:00 to 1:30	1:30 to 2:30	2:30 to 4:00
Monday	Case Discussion	Clinical / OPD	L U N C H	Clinical / OPD	Clinical / OPD
Tuesday	Seminar	Clinical / OPD		Clinical / OPD	Thesis /L.D. evaluation
Wednesday	Seminar	Clinical / OPD		Clinical / OPD	Clinical / OPD
Thursday	Case Discussion	Clinical / OPD		Clinical / OPD	Clinical / OPD
Friday	Journal Club	Clinical / OPD		Clinical / OPD	Clinical / OPD
Saturday	Clinical / OPD	Clinical / OPD		Clinical / OPD	Clinical / OPD

**MDS IVth Semester**

Day	8:30 to 10:00	10:00 to 1:00	1:00 to 1:30	1:30 to 2:30	2:30 to 4:00
Monday	Case Discussion	Clinical / OPD	L U N C H	Clinical / OPD	Clinical / OPD
Tuesday	Seminar	Clinical / OPD		Clinical / OPD	Thesis evaluation
Wednesday	Seminar	Clinical / OPD		Clinical / OPD	Clinical / OPD
Thursday	Case Discussion	Clinical / OPD		Clinical / OPD	Clinical / OPD
Friday	Journal Club	Clinical / OPD		Clinical / OPD	Clinical / OPD
Saturday	Clinical / OPD	Clinical / OPD		Clinical / OPD	Clinical / OPD

# I.T.S. CENTRE FOR DENTAL STUDIES & RESEARCH

DELHI-MEERUT ROAD MURAD NAGAR, GHAZIABAD

DEPARTMENT of Orthodontics & Dentofacial - Orthopedics

Weekly Distribution of Teaching / Clinical / Seminar / Lecture Session

## MDS Vth Semester

Day	8:30 to 10:00	10:00 to 1:00	1:00 to 1:30	1:30 to 2:30	2:30 to 4:00
Monday	Case Discussion	Clinical / OPD	L U N C H	Clinical / OPD	Clinical / OPD
Tuesday	Seminar	Clinical / OPD		Clinical / OPD	Thesis evaluation
Wednesday	Seminar	Clinical / OPD		Clinical / OPD	Clinical / OPD
Thursday	Case Discussion	Clinical / OPD		Clinical / OPD	Clinical / OPD
Friday	Journal Club	Clinical / OPD		Clinical / OPD	Clinical / OPD
Saturday	Clinical / OPD	Clinical / OPD		Clinical / OPD	Clinical / OPD

## MDS VIth Semester

Day	8:30 to 10:00	10:00 to 1:00	1:00 to 1:30	1:30 to 2:30	2:30 to 4:00
Monday	Case Discussion	Clinical / OPD	L U N C H	Clinical / OPD	Clinical / OPD
Tuesday	Seminar	Clinical / OPD		Clinical / OPD	Clinical / OPD
Wednesday	Seminar	Clinical / OPD		Clinical / OPD	Clinical / OPD
Thursday	Case Discussion	Clinical / OPD		Clinical / OPD	Clinical / OPD
Friday	Journal Club	Clinical / OPD		Clinical / OPD	Clinical / OPD
Saturday	Clinical / OPD	Clinical / OPD		Clinical / OPD	Clinical / OPD

**I.T.S CENTRE FOR DENTAL STUDIES AND RESEARCH**

Delhi- Meerut Road Murad Nagar Ghaziabad

**Department of Orthodontics & Dentofacial Orthopaedics**

**Academic Program for M.D.S [Batch 2021 – 2024]**

	Lectures: (Basic sciences)	Dissertation	Library Dissertation	Pre-clinical work	Seminars and Journal club	Clinical work
<b>Semester – 1</b>	<ul style="list-style-type: none"> <li>• Anatomy</li> <li>• Physiology</li> <li>• Biochemistry</li> <li>• Pharmacology</li> <li>• Pathology</li> <li>• Microbiology</li> <li>• Biostatistics</li> </ul>	Dissertation Protocol to be submitted by 31/05/2022	Library dissertation: selection of topic by 31/05/2022	Pre- Clinical work	2/2	–
<b>Semester – 2</b>	–	Dissertation work in progress- Submission of report	Library Dissertation work in progress- Submission of report	–	2/2	15-20 cases after clinical presentation
<b>Semester – 3</b>	–	Dissertation work in progress-Submission of report	Submission of LD by 31/05/2023	–	3/3	25-30 cases after clinical presentation
<b>Semester – 4</b> Theory exam date:	–	Data Collection / Analysis and review articles – Submission of reports	–	–	3/3	5-10 cases after clinical presentation
<b>Semester – 5</b> Theory exam date:	–	Results, Discussion & Completion of Dissertation – to be submitted by 30/04/2024	–	–	3/3	Existing Self started cases and Addition of transferred cases
<b>Semester – 6</b> Mock Exam University Exam	–	–	–	–	2/2	Existing Self started and transferred cases
CDE Programme	4					
Conference / PG Convention	3					
Poster Presentation	2					
Paper Presentation	1					
Publications	1					

End Semester Practical / Clinical examination dates shall be intimated by the Department.

**List of Basic Books to be Referred by the student**

1. Textbook of Orthodontics (Bishara, Samir E)
2. Contemporary Orthodontics (Profit) 5/e
3. Hand Book of Orthodontics (Moyers, R.E.)
4. Removable Orthodontic Appliances (Isaacson, K.G.)
5. Management of Temporomandibular Disorder & Occlusion 5/e (Okeson, Jeffrey P.)
6. Orthodontics Diagnosis and Management of Malocclusion and Dentofacial Deformities 2/e (O P Kharbanda )
7. Radiographic Cephalometry from Basic to 3D imaging (Jacobson, Alexander)
8. Dentofacial Orthopedics with Functional Appliances 2/e (Graber, TM)
9. Twin Block Functional Therapy 2/e (Clark, William J.)
10. Biomechanics in Clinical Orthodontics (Nanda, R.)
11. Temporary Anchorage Devices in Orthodontics (Nanda, R.)
12. Systemized Orthodontics Treatment Mechanics (McLaughlin, Richard P)
13. Orthodontics: Current Principles and Tech. 2/e(4)  
(Graber, TM)
14. Orthodontics: Current Principles and Tech.4/e(2) (Graber, TM)
15. Orthodontics: Current Principles and Tech 5/e(2) (Graber, TM)
16. Clinical Orthodontics Vol. I

## 17. Begg Orthodontic theory and technique (Begg & Kesling)

<b>List of Instruments to be procured by P.G. Students</b>		
1	Pliers stand	1
2	Heavy wire cutter	1
3	Distal end cutters with safety lock	1
4	Pin and ligature cutter	1
5	Archwire cutter	1
6	Bird beak (139) pliers	1
7	De la Rossa pliers	1
8	Tweed's Pliers	1
9	Weingart Pliers	1
10	Johnson's Band contouring Pliers	1
11	Artery forceps- small	1
12	Mathieu forceps	1
13	Straight Howe Pliers	1
14	Curved Howe Pliers	1
15	Ribbon Arch Pliers	1
16	Adams Pliers	1
17	Young's Universal pliers	1
18	Half Round Pliers	1
19	Peak Pliers- Rt & Lt	1
20	Posterior Band Removing Pliers	1
21	Debonding Pliers	1
22	Bracket Placing Tweezers	
23	MBT Bracket Positioning Gauge with Lead Marker	1
24	Torquing Key	1
25	Ligature Tucker	1
26	3-Prong Pliers	1
27	Face Bow Bending Pliers	1
28	Separator placing Pliers	1
29	Crimping pliers	1
30	Canine contouring (Hollow chop) pliers	1

31	Band Pusher	1
32	Band Seater	1
33	Band-Cutting scissors	1
34	Orthodontic Impression Trays- high flange	1
35	Plaster spatula	2
36	Steel Spatula	1
37	Plastic Spatula	1
38	Wax knife	1
39	Lecron carver	1
40	Glass slab	1
41	Full Cheek retractors (small & large)	1
42	Half Cheek retractors- (small & large)	1
43	Photography mirror- metal	1
44	Rubber bowl	2
45	Spirit lamp/ blow torch	1
46	S.S. Surgical tray with lid- large	4
47	S.S. Surgical tray with lid- small	2
48	S.S. Surgical drum	2
49	Spot welder	1
50	L.E.D Light cure gun	1
51	Digital SLR camera	1
52	Tongue guard	1
53	Flask	1
54	Clamp	1
55	PMT sets	10
56	Cotton holder/ Dispenser	1
57	Lab micro-motor with straight and contra-angle handpiece	1
58	Base formers- small, medium, large	3sets
59	Air-rotor handpiece	1

**List of Stationary Items to be Procured by P.G. Students**

<b>S. No.</b>	<b>Material</b>	<b>Qty.</b>
1.	Pair of Set Squares	1
2	Divider	1
3	Metal Scale 6” with Gradations	1
4	Paper Cutting Scissor	1
5	Pencil Sharpener	1
6	Eraser	1
7	Pencil 05mm HB, 6H, H, HB	1
8	Glass Marking Pencil (White & Red)	1
9	Metal Marker	1
10	OHP Pen Set	1
11	Hand Mirror	1
12	Acetate Tracing Paper	1
13	Millimeter Graph Paper	1
14	Paper Cutter	1
15	Appointment Diary	1



# Basic Pre – clinical exercise work

## for the MDS students:

### First 6 Months

#### 1. NON – APPLIANCE EXERCISES

INCHARGE OF THE EXERCISES: Dr Payal Sharma/ Dr. Divya Shetty

Date of Start	Duration	Date of Completion
10– 11 – 2021	Two Weeks	24-11-2021

S. No.	Exercise	No.	Signature
1	Straightening of 6” long wire	1	
2	Straightening of 8” long wire	1	
3	Square	1	
4	Rectangle	1	
5	Triangle of 1” side	1	
6	Circle of 2” diameter	1	
7	Bending of 5U’s	1	
8	Bending of 5V’s	1	

## **2. CLASPS**

**INCHARGE OF THE EXERCISES: Dr Piush Kumar/ Dr. Divya Shetty**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
25 – 11 – 2021	One Week	01-12-2021

S. No.	Exercise	No.	Signature
1	$\frac{3}{4}$ clasps	2	
2	Full clasps	2	
3	Triangular clasps	2	
4	Adam's clasp – upper molar	2	
5	Adam's clasp – lower molar	2	
6	Adam's clasp – pre-molar	2	
7	Adam's clasp – incisor	2	
8	Modification of Adam's – with helix	2	
9	Modification of Adam's – with distal extension	2	
10	Modification of Adam's – with soldered tube	2	
11	Duyzing Clasps on molars	2	
12	Southend clasp	1	

### **3. LABIAL BOWS**

**INCHARGE OF THE EXERCISES: Dr Piush Kumar/ Dr. Divya Shetty**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
02 – 12 – 2021	One Week	09-12-2021

S. No.	Exercise	No.	Signature
1	Short labial bow (upper & lower)	1	
2	Long labial bow (upper & lower)	1	
3	Robert's retractor	1	
4	High labial bow- with apron spring's	1	
5	Mill's labial bow	1	
6	Reverse loop labial bow	1	
7	Retention labial bow soldered to Adam's clasp	1	
8	Retention labial bow extending distal to second molar	1	
9	Fitted labial bow	1	
10	Split high labial bow	1	

**4. SPRINGS****INCHARGE OF THE EXERCISES: Dr. Piush Kumar/Dr. Divya Shetty**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
09 – 12 – 2021	One Week	16 – 12 – 2021

S. No.	Exercise	No.	Signature
1	Finger spring – mesial movement	2	
2	Finger spring – distal movement	2	
3	Double cantilever spring	2	
4	Flapper spring	2	
5	Coffin spring	2	
6	T spring	2	

**5. CANINE RETRACTORS****INCHARGE OF THE EXERCISES: Dr Divya Shetty/ Dr. Monis Raza**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
17– 12 – 2021	One Week	23-12-2021

S. No.	Exercise	No.	Signature
1	U loop canine retractor	2pairs	
2	Helical canine retractor	2pairs	
3	Palatal canine retractor	2pairs	
4	Self- supporting canine retractor	2pairs	

## **6. APPLIANCES**

**INCHARGE OF THE EXERCISES: Dr. Divya Shetty/ Dr Shubhangi Jain**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
24 – 12 – 2021	Four Weeks	31-12-2021

S. No.	Exercise	Signature
1	Hawley's retention appliance with anterior bite plane	
2	Upper Hawley's appliance with posterior bite plane	
3	Upper expansion appliance with coffin spring	
4	Upper expansion appliance with expansion screw	
5	Habit braking appliance with tongue crib	
6	Oral screen	
7	Lip bumper- fixed	
8	Splint for bruxism	
9	Catalans appliance	
10	Activator	
11	Bionator	
12	Frankel – FR 2 appliance	
13	Twin block (Heat-cured)	
14	Lingual arch	
15	TPA	
16	Quad helix	
17	Bi-helix	
18	Utility arches-3	
19	Pendulum appliance	

## **7. SOLDERING EXERCISES**

**INCHARGE OF THE EXERCISES: Dr. Piush Kumar/ Dr. Divya Shetty**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
01-01 2022	One Week	07-01-2022

<b>S. No.</b>	<b>Exercise</b>	<b>No.</b>	<b>Signature</b>
1	Star	1	
2	Comb	1	
3	Christmas tree	1	
4	Soldering buccal tube on molar bands	1	

## **8. WELDING EXERCISES**

**INCHARGE OF THE EXERCISES: Dr. Payal Sharma/Dr. Piush Kumar**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
08-01-2022	One Week	14-01-2022

<b>S. No.</b>	<b>Exercise</b>	<b>Signature</b>
1	Pinching and welding of molar, premolar, canine and incisor bands	
2	Welding of buccal tubes and brackets on molar bands and incisor bands	

## **9. IMPRESSION OF UPPER AND LOWER ARCHES IN ALGINATE**

**INCHARGE OF THE EXERCISES: Dr Piush Kumar/ Dr. Shubhangi Jain**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
15-01-2022	Two Days	21-01-2022

<b>Exercise</b>	<b>Signature</b>
Impression of upper and lower dental arches	

## **10. STUDY MODEL PREPARATION**

**INCHARGE OF THE EXERCISES: Dr Divya Shetty/ Dr. Ridhi**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
22-01-2022	One week	29-01-2022

<b>Exercise</b>	<b>Signature</b>
Preparation of study model -1	
Preparation of study model -2	
Preparation of study model -3	

## **11. MODEL ANALYSIS**

**INCHARGE OF THE EXERCISES: Dr. Piush Kumar/ Dr. Divya Shetty**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
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30-01-2022	One Week	06-02-2022
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<b>S. No.</b>	<b>Exercise</b>	<b>Signature</b>
1	Study Model Analysis -1 All the permanent dentition analyses to be done	
2	Study Model Analysis -2 All the permanent dentition analyses to be done	
3	Study Model Analysis -3 All the permanent dentition analyses to be done	



## **12. CEPHALOMETRIC ANALYSES**

**INCHARGE OF THE EXERCISES: Dr. Payal Sharma/Dr. Piush Kumar**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
07-02-2022	One Week	14-02-2022

<b>S. No.</b>	<b>Exercise</b>	<b>Signature</b>
1	Lateral cephalogram to be traced in five different colors and superimpose to see the accuracy of tracing	
2	Steiner's analysis	
3	Down's analysis	
4	Tweed analysis	
5	Rickett's analysis	
6	Burstone analysis	
7	Rakosi's analysis	
8	Mc Namara analysis	
9	Harvold's analysis	
10	Soft tissue analysis – Holdaway and composite	
11	COGS analysis-	
12	P.A cephalometric analysis	

## **13. BASICS OF CLINICAL PHOTOGRAPHY INCLUDING DIGITAL PHOTOGRAPHY**

**INCHARGE OF THE EXERCISES: Dr Payal Sharma/ Dr. Bhupender**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
15-02-2022	One Week	22-02-2022

<b>S. No.</b>	<b>Exercise</b>	<b>Signature</b>
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1	Extra-oral Photographs	
2	Intra-oral Photographs	

#### **14. TYPODONT EXERCISES: ( P.E.A. METHOD)**

**INCHARGE OF THE EXERCISES: Dr. Payal Sharma/ Dr. Piush Kumar**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
23-02-2022	Four Weeks	23-03-2022

<b>S. No.</b>	<b>Exercise</b>	<b>Signature</b>
1	Setting of teeth in class II Div I Malocclusion	
2	Banding of first and second molars with welding of tubes	
3	Fabrication of Trans-palatal arch on upper first molars	
4	Placement of brackets according to bracket placement chart	
5	Stage I: Alignment and leveling – .016” NiTi with lacebacks and bendbacks	
6	Stage I: Alignment and leveling contd. – .018” S.S	
7	Stage I: Alignment and leveling contd. –.019x.025” NiTi	
8	Stage II: Overbite control – .019x .025” S.S with soldered hooks and placement of bite opening curves a) Upper arch wire with 15 to 20° labial root torque b) Lower arch wire with 10° to 15° labial root torque	
9	Stage III: Overjet reduction with active tiebacks and placement of head-gear	
10	Stage IV: Finishing: .016” S.S upper and .014” NiTi lower	

## **15. LIGHT WIRE BENDING EXERCISES FOR THE BEGG TECHNIQUE**

**INCHARGE OF THE EXERCISES: Dr Piush Kumar/ Dr. Divya Shetty**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
24-03-2022	Four Weeks	23-04-2022

S.	Exercise	Signature
1	Straight length with 6 vertical loops in- .016” wire	
2	Straight length with horizontal inter-cuspid circles- .016” wire	
3	Straight length with boot legs	
4	4 – spur torquing auxiliary- .012”	
5	Rotating springs - one pair- .014”	
6	Uprighting springs – one pair- .014”	
7	Reciprocal torquing auxiliary- .012”	
8	Udder arch - .012”	
9	U/L stage 1 arch wires – .016”	
10	U/L stage II arch wires- .018”	
11	U/L stage III arch wires- .020”	

## **16. BASIC WIRE BENDING EXERCISES- EDGEWISE TECHNIQUE**

**INCHARGE OF THE EXERCISES: Dr. Payal Sharma/ Dr. Divya Shetty**

<b>Date of Start</b>	<b>Duration</b>	<b>Date of Completion</b>
24-04-2022	Four weeks	23-05-2022

S. No.	Exercise	Signature
1	Construction of Bonwill- Hawley diagram	
2	Fabrication of U/L arch wire using the Bonwill – 016 S.S	
3	Fabrication of first order bends in U/L arch wire- .019x025 S.S	
4	Fabrication of second order bends in U/L arch wire- .019x025 S.S	
5	Fabrication of third order bends in U/L arch wire- .019x025 S.S	
6	15° lingual root torque in the anterior section of the upper arch wire	
7	10° labial root torque in the anterior section of the lower arch wire	
8	5° lingual crown torque in the posterior sections of upper arch wire	

9	5° lingual crown torque in the posterior sections of the lower arch wire	
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# ACADEMIC ACTIVITIES

## SEMINARS PRESENTED

S. NO.	SEMINAR PRESENTED	DATE	SCORE	SIGNATURE
1				
2				
3				
4				
5				

<b>S. NO.</b>	<b>SEMINAR PRESENTED</b>	<b>DATE</b>	<b>SCORE</b>	<b>SIGNATURE</b>
<b>6</b>				
<b>7</b>				
<b>8</b>				
<b>9</b>				

<b>10</b>				
<b>11</b>				
<b>S. NO.</b>	<b>SEMINAR PRESENTED</b>	<b>DATE</b>	<b>SCORE</b>	<b>SIGNATURE</b>
<b>12</b>				
<b>13</b>				
<b>14</b>				
<b>15</b>				



<b>16</b>				
<b>17</b>				

## **ACADEMIC ACTIVITIES**

### *JOURNAL CLUB PRESENTED*

<b>S. NO.</b>	<b>JOURNAL CLUB PRESENTED</b>	<b>DATE</b>	<b>SCORE</b>	<b>SIGNATURE</b>
<b>1</b>				
<b>2</b>				

<b>3</b>				
<b>4</b>				
<b>5</b>				

<b>S. NO.</b>	<b>JOURNAL CLUB PRESENTED</b>	<b>DATE</b>	<b>SCORE</b>	<b>SIGNATURE</b>
<b>6</b>				

7				
8				
9				
10				
11				
<b>S. NO.</b>	<b>JOURNAL CLUB PRESENTED</b>	<b>DATE</b>	<b>SCORE</b>	<b>SIGNATURE</b>
12				

<b>13</b>				
<b>14</b>				
<b>15</b>				
<b>16</b>				
<b>17</b>				










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S. NO.	PATIENT'S NAME & OPD NO.	TECHNIQUE AND Rx-PLAN	SIGNATURE
<b>FIXED MECHANOTHERAPY</b>			

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S. NO.	PATIENT'S NAME & OPD NO.	TECHNIQUE AND Rx-PLAN	SIGNATURE
<b>FIXED MECHANOTHERAPY</b>			













**PAPER / POSTER PRESENTED; ARTICLES SUBMITTED FOR  
PUBLICATION / PUBLISHED**

<b>S. NO.</b>	<b>TOPIC OF PAPER / POSTER</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b>S. NO.</b>	<b>TOPIC OF PAPER / POSTER</b>	<b>DATE</b>	<b>SIGNATURE</b>







**CHECK LIST- 1****EVALUATION OF JOURNAL REVIEW RESENTATIONS***Name of the trainee:**Date:**Topic:**Name of the Faculty / Observer:*

<b>S. No.</b>	<b>Items for Observations During Presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	Article chosen was					
2.	Extent of understanding of scope & objectives of the paper by the candidate.					
3.	Whether cross – reference have been consulted.					
4.	Whether other relevant publications consulted					
5.	Ability to respond to question on the paper / subject.					
6.	Audio- visual aids used.					
7.	Ability to defend the paper.					
8.	Clarity of presentation					
9.	Any other observation					
<b>Total Score</b>						

**CHECK LIST- 2**  
**EVALUATION OF SEMINAR PRESENTATIONS**

*Name of the trainee:*

*Date:*

*Topic:*

*Name of the Faculty / Observer:*

<b>S. No.</b>	<b>Items for Observations During Presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	<b>Whether other relevant publications consulted.</b>					
2.	<b>Whether cross-references have been consulted.</b>					
3.	<b>Completeness of preparation</b>					
4.	<b>Clarity of presentation</b>					
5.	<b>Understanding of subject</b>					
6.	<b>Ability to answer the question</b>					
7.	<b>Time schedule</b>					
8.	<b>Appropriate use of audio visual aids.</b>					
9.	<b>Any other observation</b>					
<b>Total Score</b>						

**CHECK LIST- 3****EVALUATION OF CLINICAL WORK IN OPD**

*(To be completed once a month by respective unit heads including posting in other department)*

***Name of the trainee:***

***Date:***

***Name of the Unit Head:***

<b>S. No.</b>	<b>Items for Observations During Presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	<b>Regularity of attendance.</b>					
2.	<b>Punctuality</b>					
3.	<b>Interaction with colleagues and supportive staff.</b>					
4.	<b>Clarity of presentation</b>					
5.	<b>Presentation of cases.</b>					
6.	<b>Investigations work up.</b>					
7.	<b>Chair side manners.</b>					
8.	<b>Rapport wit patients</b>					
9.	<b>Over all quality of clinical work.</b>					
<b>Total Score</b>						



**CHECK LIST- 4****EVALUATION FROM THE CLINICAL CASE PRESENTATION***Name of the trainee:**Date:**Name of the Unit Head:*

S. No.	Items for Observations During Presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness of history					
2.	Whether all relevant points elicited.					
3.	Logical order					
4.	Logical order.					
5.	Mentioned all positive and negative.					
6.	Accuracy of general physical examination					
7.	Diagnosis: whether it follows logically from history and findings.					
8.	Investigations required. Complete list Relevant order. Interpretation of investigations.					
9.	Ability to react to questioning whether it follows logically from history and findings.					
10.	Ability to defend diagnosis					
11.	Ability to justify differential diagnosis.					
12.	Others					
<b>Total Score</b>						

*Please use a separate sheet for each faculty member.*

**CHECK LIST- 5**  
**EVALUATION OF TEACHING SKILL**

*Name of the trainee:*

*Date:*

*Name of the Faculty / Observer:*

<b>S. No.</b>	<b>Items for Observations During Presentation</b>		
1.	<b>Communication of the purpose of the talk</b>		
2.	<b>Evokes audience interest in the subject. The introduction.</b>		
3.	<b>The sequence to ideas</b>		
4.	<b>The use of practical examples and / or illustrations.</b>		
5.	<b>Speeking style (enjoyable, monotonous, etc. specify)</b>		
6.	<b>Attempts audience participation</b>		
7.	<b>Summary of the main points at the end.</b>		
8.	<b>Asks questions.</b>		
9.	<b>Answers questions asked by the audience.</b>		
10.	<b>Rapport of speaker with his audience.</b>		
11.	<b>Effectiveness of the talk</b>		
12.	<b>Use AV aids appropriate</b>		

**CHECK LIST- 6**  
**DISSERTATION PRESENTATION**

*Name of the trainee:*

*Date:*

*Name of the Faculty / Observer:*

<b>S. No.</b>	<b>Prints to be considered</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	<b>Interest shown in selecting topic.</b>					
2.	<b>Appropriate review.</b>					
3.	<b>Discussion with guide and other faculty</b>					
4.	<b>Quality of protocol</b>					
5.	<b>Preparation of Performa</b>					
<b>Total Score</b>						

**CHECK LIST- 7**  
**CONTINUOUS EVALUATION OF DISSERTATION WORK**  
**BY GUIDE / CO-GUIDE**

*Name of the trainee:*

*Date:*

*Name of the Faculty / Observer:*

<b>S. No.</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	<b>Periodic consultation with guide/ co-guide.</b>					
2.	<b>Regular collection of case material.</b>					
3.	<b>Depth of analysis / discussion.</b>					
4.	<b>Department presentation of findings.</b>					
5.	<b>Quality of final output.</b>					
6.	<b>Others.</b>					
<b>Total Score</b>						

**CHECK LIST- 8**  
**OVERALL ASSESSMENT SHEET**

S. No.	Faculty Member	NAME OF TRAINEE AND MEAN SCORE									
		A	B	C	D	E	F	G	H	I	J
1.											
2.											
3.											
4.											
5.											
6.											

**Signature of HOD**

The above overall assessment sheet used along with the logbook should form the basis for certifying satisfactory completion of course of study, in addition to the attendance requirement.

**Key**

**Faculty Member:** Name of the faculty doing the assessment

**Mean Score:** Is the mean value of all the scores of checklists 1 to 7.

**A,B.....:** Name of the trainee.

**I.T.S. CENTRE FOR DENTAL STUDIES AND RESEARCH  
DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD**

**List of Books available in Central Library for Department of Orthodontics**

S. No	Title of the Book	Author/Editor	Edition/Year	Publisher
1	Enhancement Orthodontics: Theory & Practice	Ackerman, M.G	1st	Blackwell,
2	Design, Construction and use of Removable Orthodontics Application	Adams, C Philip	1st	Varghese Pub
3	The Design, Construction and use of Removable Orthodontics Appliances	Adams, C. Philip	5th	Wrifht
4	The 20 Principles of the Alexander Discipline	Alexander, R.G.W	1st	Quintessence
5	Facial and Dental Planning for Orthodontics and Oral Surgery	Arnett, William	1st	Mosby;
6	Esthetics in Dentistry	Aschheim	2nd	Mosby,
7	Orthodontics Cephalometry	Athanasίου, E Athanas	1st	Mosby;
8	Handbook of Orthognathic Treatment	Ayoub, A	1st	Wiley-Blackwell,
9	Orthodontic Treatment of	Backer, Adrian	2nd	INFORMA Health Care

	impacted Teeth			
10	New Trend in Orthodontics	Baek, Seung-Haek	2nd	Shinhung International
11	Orthodontic Treatment of Impacted Teeth	Becker, Adrian	3rd	Wiley-Blackwell
12	Orthodontic Management of the Dentition with the Preadjusted App.	Bennett, John C.	1st	Mosby;
13	Orthodontic Management of Uncrowded Class II Division one Malocclusion in Children	Bennett, John C.	1st	Mosby Elseveier
14	Orthodontics:The art and Science 2/e(24), 6/e(21), 3rd ed (6),4th (1),7/e (7)	Bhalajhi, SI	2/e(24), 6/e(21), 3rd ed (6),4th (1),7/e (7)	
15	Textbook of Orthodontics	Bishara, Samir E	1st	AITBS
16	Orthodontics Material Scientific and Clinical	Brantley, William	1st	Thieme,
17	Facial Harmony	Brons, Rijnko	1st	Quintessence
18	A Dental Treasure Chest, April 2006	Bucking, W.	1st	Quintessence
19	Problem Solving in Orthodontics	Burstone, Charles	1st	Quintessence
20	Inverse Anchorage Technique in Fixed Orthodontics Treatment	Carriere, Jose	1st	Quintessence
21	Twin Block Functional Therapy 2/e	Clark, William J.	2nd	Mosby
22	Handbook of Orthodontics	Cobourne, Martyn T.	1st	Mosby Elseveier
23	The Orthodontic Mini-Implant Clinical Handbook	Cousley, Richard	1st	Wiley-Blackwell

24	Garden of Orthodontics	Cozzani, Giuseppe	1st	Quintessence
25	Glossary of Terms	Daskalogiannakis, J.	1st	Quintessence
26	Self-Ligation in Orthodontics	Eliades, Theodore	1st	Wiley-Blackwell
27	Self-Ligation in Orthodontics	Eliades, Theodore	1st	Wiley-Blackwell
28	Mosby's Orthodontic Review	English, Jeryld	1st	Mosby Elsevier
29	Dentofacial Deformities Vol.1 2/e	Epkar, Bruce N.	2nd	Baltimore Mosby
30	Dentofacial Deformities : Integrated Orthodontics & Surgical Vol.4	Epkar, Bruce N.	2nd	Mosby
31	Orthodontics Concepts and Strategies	Frans & Linden	14th	Mosby
32	Orthodontics for Dental Students	Gardiner, J H	4th	Oxford University Press
33	Orthodontics for Dental Students	Gardiner, J.H.	3rd	Macmillan
34	Imaging in Esthetic Dentistry	Goldstein, Cary E.	1st	Quintessence
35	Esthetics Dentistry Vol.1	Goldstein, R.	1st	Decker B.C
36	Esthetics Dentistry Vol.2	Goldstein, R.	1st	Decker B.C
37	Orthodontics; current principles and techniques	Graber	1st	W.B. Saunder Co
38	Orthodontics: Principles and Practice 3/e	Graber, T M	3rd	W.B. Saunders
39	Orthodontics: Current Principles and Tech. 2/e(4), 4/e(2), 5/e	Graber, T M	2nd, 4th, 5th,1st SAE	



	(2),1st SAE (2)			
40	Dentofacial Orthopedics with Functional Appliances 2/e	Graber, T M	2nd	Mosby
41	Risk Management in Orthodontics	Graber, T M	1st	Quintessence
42	Orthodontics Current principles and Practice	Graber, Thomas M.	3rd	W.B. Saunde
43	Dentofacial Orthopedics with Functional Appliances	Graber,Tomas.M	2nd	Mosby
44	Orthodontics & Orthognathic Surgery	Gregoret, Jorge	2003	ESPAXS Publishing
45	Oral Health for the Orthodontic Patient	Heintze, Siegward D	1999	Quintessence
46	Colour Atlas and Textbook of Orthodontic Surgery	Henderson, Derek	1st	Wolfe Medical Pub
47	Textbook of Orthodontics	Houston, W J B	2nd	London : Wright
48	Removable Orthodontics Appliances	Isaacson, K.G.	2006	Elsevier
49	Radiographic Cephalometry from Basic to Dimaging	Jacobson, Alexander	2nd	Quintessence
50	Reviews in Orthodontics	Jena, Ashok Kumar	1st	Jaypee Brother
51	W & H Orthodontic	Jones, Maleolm L;Ed.	6th	Wright,Oxford,
52	New Vistas in Orthodontics	Jonhston, Lysle E	1985	Lee and febyer
53	Clinical Orthodontics :Current Concepts, Goals And Mechanics	Karad, Ashok	2010	Elsevier
54	THREE-	Kau, Chung How	2010	Wiley-Blackwell

	Dimensional Imaging for Orthodontics And Maxillofacial Surgery			Publishing
55	ORTHODONTICS Diagnosis And Management of Malocclusion and Dentofacial Deformities	Kharbanda	2/e (2), 3/e (2)	Elsevier
56	Clinical Success in Surgical & Orthodontic treatment of impacted teeth	Korbendau, Jean-M	2006	Quintessence
57	Integrated Clinical Orthodontics	Krishnan, Vinod	2012	Wiley-Blackwell
58	Application of Orthodontic Mini-Implants	Lee, Jong Suk	2007	Quintessence
59	The Master of Functional Orthodontics	Levrini, Aurelio	2003	: Quintessence
60	Facial Growth and Facial Orthodontics	Linden, Van Der	1996	Quintessence
61	Orthodontics with Fixed Appliances	Linden, Van Der	1997	Quintessence
62	Problems and Procedures in Dentofacial Orthopedics	Linden, Van Der	1990	Quintessence
63	Practice Dentofacial Orthopedics	Linden, Van Der	1st/1996	Quintessence
64	Excess Face Height Malocclusion	Linder-Aronson, Sten	2000	Quintessence
65	Diagnosis of the Orthodontic Patient	McDonald	2010	Jaypee Brother
66	Systemmized Orthodontics Treatment Mechanics	McLaughlin, Richard P	2001	Mosby

67	Science and Practice of Occlusion	McNeill, Charles	1997	Quintessence
68	Current Controversies in Orthodontics	Melsen, Birte	1991	Jaypee Brother
69	Adult Orthodontics	Melsen, Birte	2012	Wiley-Blackwell,
70	An Introduction to Orthodontics	Mitchell, Laura	3rd	Oxford University Press
71	Orthodontics Pearls: A Selection of practical tips	Mizrahi, Eliakim	2004	Taylor & Francis
72	Hand Book of Orthodontics	Moyers, R.E.	1998	Year Book Medical; Chicago
73	Introduction to Bioprogressive Therapy	Nakajima, Ellchiro	1987	Quintessence
74	Temporary Anchorage Devices in Orthodontics	Nanda, R.	2009	Elsevier(Mosby)
75	Retention & Stability in Orthodontics	Nanda, R.	1993	W.B. Saunder
76	Biomechanics in Clinical Orthodontics	Nanda, R.	2nd	Saunder,
77	Current Therapy in Orthodontics	Nanda, R.	5th (2). 1st (1)	B.C. Decker Elsevier
78	Biomechanics and Esthetic Strategies in Clinical Orthodontics	Nanda, R.	2005	Elsevier
79	Esthetics and Biomechanics in Orthodontics	Nanda, Ravindra	2nd	Elsevier
80	Atlas of Complex Orthodontics	Nanda, Ravindra	1st	Elsevier
81	Bioengineering Analysis of Orthodontics Mechanics	Nikolai, Robert J.	1985	Lea and Fibirger

82	Management of Temporomandibular Disorder & Occlusion	Okeson, Jeffrey P.	6th	Mosby Elsevier,
83	Functional Appliances in Orthodontics Treatment	Orton, Harry S	1990	Quintessence
84	Orthodontics Miniscrew Implants: Clinical Applications	Paik, Cheol-Ho...et al	2009	Elsevier(Mosby
85	Orthodontic Treatment of the Class-II Noncomplaint Patient Current Principles & Tech.	Papadopoulos, M.A.	2006	Mosby
86	Tip-Edge Orthodontics	Parkhouse, R.	2003	Elsevier
87	Clinical success in Early Orthodontic treatment	Patti, Antonio	2005	Quintessence
88	Understanding of Orthodontics	Perry, Harold T.	1997	Quintessence
89	History Of Orthodontics	Phulari, Basavaraj SC	2013	aypee Brother
90	Contemporary Orthodontic 3/e	Proffit, William R	3rd	Mosby- Wolfe,
91	Contemporary Treatment of Dentofacial Deformity	Proffit, William R	2002	Mosby
92	Contemporary Orthodontics 5/e	Proffit, Willim.R	5/e	Elsevier
93	Contemporary Orthodontics 4/e	Proffit	4th	Mosby
94	An Atlas and Manual of Cephalometric Radiography	Rakosi, Thomas	1982	Wolfe Medi Pub
95	Color Atlas of Dental Medicine:	Rakosi, Thomas	2nd	Thieme Medical Pub

	Orthodontic Diagnosis			
96	Removable Orthodontics Appliances	Rani, M S	1997	AITBS
97	Textbook of Orthodontics	Rani, M S	3rd	AITBS
98	Orthodontics Pedodontics Oral Medicine & Radiology: Pre Exa	Ravikumar, V	2001	W.B. Saunders
99	Introduction to Orthognathic Surgery A Color Atlas	Reyneke, John	1991	Ishiyaku EuroAmerica,
100	Essentials of Orthodontic Surgery	Reyneke, John	2003	Quintessence
101	Tip -EDGE Orthodontics And The Plus Bracket	Richard, Parkhouse	2003	Elsevier(Mosby)
102	Interdisciplinary Dentofacial Therapy	Roblee, Richard D.	1994	Quintessence
103	Orthodontic Surgical treatment of dentofacial anomalies	Ronchi, Paolo	2007	Quintessence
104	Orthodontics: Short Notes and Mcq's	Sanjay Kumar	2009	PeePee Publishers
105	Esthetic Orthodontics and Orthognathic Surgery	Sarver, David	1998	Elseveier
106	Lingual Orthodontics :A new Approach Using STb Light L.Sy	Scuzzo, Giuseppe	2010	Quintessence
107	Invisible Orthodontics Current Concepts and Solutions in Lingual Orthodontics	Scuzzo, Giuseppe	2003	Quintessence

108	Textbook of orthodontics	Singh, Gurkeerat	3rd	Jaypee Brother
109	Textbook of Craniofacial Growth	Sridhar, Prem Kumar	2011	Jaypee Brother
110	The Principles & Practice of Dentofacial Orthopaedics	Stockfish, Hugo	1995	Quintessence
111	Viva Orthodontics	Sundraram, Soma	1st	AITBS
112	The Invisalign System	Tuncay, Orhan C	2006	Quintessence
113	Atlas of Advanced Orthodontics	Viazis, Anthony D.	1998	W.B. Saunder Co
114	Clinical Photography in Dentistry	Vyas.M.B	2008	Jaypee Brother
115	Management of Cleft Lip and Palate	Watson, A.C.H.	2005	Whurr Pub
116	Removable Appliance Fabrication	Witt, Emil	1988	Quintessence
117	1,001,TIPS for Orthodontics And its Secrets	Yanez,Rodriguez	2013	Scientific International
118	Contemporary Orthodontics 6th ed.	Proffit, William R	6th	Elsevier

**DELHI-MEERUT ROAD, MURAD NAGAR, GHAZIABAD**

**List of Books available in Department Library**

<b>S.No</b>	<b>Author</b>	<b>Title</b>
1	Gardiner, J.H.	Orthodontics for Dental Students
2	Bishara, Samir E	Textbook of Orthodontics
3	Graber, T.M.	Orthodontics principles and practice
4	Jones, Malcol L.	W and H Orthodontics notes
5	Johnstone, Lysle E.	New Vistas in Orthodontics
6	Adams, C. Philip	The Design, Construction and use of Removable Orthodontics Appliances
7	Houston, WPB	Text book of Orthodontics
8	Gardiner, J.H	Orthodontics for Dental Students
9	Anusavice, Kenneth J	Philips Science of Dental Materials
10	Proffit, William R.	Contemporary Orthodontics
11	Viazis, Anthony D	Atlas of Advanced Orthodontics
12	Graber, Tomas.M	Dentofacial Orthopedics with Functional Appliances
13	Graber, T.M	Orthodontics; current principles and techniques
14	Brons, Rijnko	Facial Harmony; standard for Orthognathic surgery and Orthodontic
15	Orton, Harry S	Functional Appliances in orthodontics treatment
16	Mclaughlin,	Systemized Orthodontics Treatment Mechanics
17	Linden,	Practical Dento-facial orthopedics
18	Nakajima, Ellchiro, West	Introduction to Bioprogressive Therapy
19	Stockfisch, Hugo	The Principles and Practice of Dentofacial Orthopaedics
20	Reed, R.T, Isaacson	Removable Orthodontic Appliances
21	Linder, Sten	Excess Face Height Malocclusion; Etiology Diagnosis and Treatment
22	Goldstein, Ronald	Esthetics in Dentistry principles communication Vol.1 &Vol.2.

23	Linden,Vander	Problem and procedures in dentofacial orthopedics
24	Rakosi, Thomas	An Atlas and Manual of Cephalometric Radiography
25	Aschheim,Dale	Esthetic Dentistry
26	Bennett, John C.	Orthodontic Management of the Dentition with the Pre-adjusted Appliance
27	Moyers, Robert E.	Hand Book of Orthodontics
28	Heintze, Siegward	Oral Health for the Orthodontics Patient
29	Zwemer, Thomas	Dental Dictionary



# I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

Delhi- Meerut Road, Murad Nagar, Ghaziabad

## Department of Orthodontics

### List of Specialty Journals available in Central Library

#### International Journals

S.No.	Name of the Journals	Since
1	American Journal of Orthodontics and Orthopedics	1980
2	Australian Orthodontics	2006
3	European Journal of Orthodontics	1996
4	Journal of Clinical Orthodontics	1967
5	Journal of Orthodontics	2000
6	The Angle Orthodontics	1987

#### National Journals

S.No.	Name of the Journals	Since
1	Journal of Indian Orthodontic Society (JIOS)	2003

**I.T.S. CENTRE FOR DENTAL STUDIES AND RESEARCH**  
**DELHI-MEERUT ROAD, MURAD NAGAR,**  
**GHAZIABAD-201206**  
**List of Journals**

Sr.No.	Title of the Journal	Available back issues
1	American Journal of Orthodontics and Dentofacial Orthopedics*	2003-2019
2	The Angle Orthodontics*	2006-2016
3	Australian Orthodontics Journal*	2006-2019
4	European Journal of Orthodontics*	2006-2019
5	Journal of Clinical Orthodontics*	2003 -2019
6	Journal of Orthodontics*	2000 -2016
7	Seminars in Orthodontics	2013-2019
8	Australian Dental Journal*	1998 -2015
9	British Dental Journal*	2000-2015
10	Dental Absrtracts*	2000-2019
11	Dental Update*	2002-2019
12	Evidence based Dentistry	2010-2019
13	International Dental Journal*	2006-2019
14	Journal of American Dental Association*	2000-2019
15	Journal of Dental Education	2010-2015
16	Oral Diseases	2001-2015
17	Quintessence International Journal*	2002-2019
18	Journal of Indian Orthodontic Society*	2003-2021
19	Indian Journal of Dental Research*	2000-2020
20	International Dental Journal of Students Research	2015-2021
21	International Journal of Experimental Dental Science	2016-2019
22	World Journal of Dentistry	2016-2019

23	Indian Dentist Research & Review	2004-2019
24	Contemporary Clinical Dentistry	2010-2019
25	Heal Talk	2018-2020

M.D.S  
REGULATION, SYLLABUS & CURRICULUM

## INSTRUCTIONS TO P.G. STUDENTS

1. The course shall have duration of 3 years i.e. 6 semesters.
2. They must possess all the required armamentarium necessary for “BASIC EXERCISES” as they enter the department.
3. The time given for the basic exercises should be strictly adhered, failing which remarks shall be entered in their personal files.
4. Time allotted for completion of all Pre- Clinical exercises is 6 months.
5. The students should submit in detail all the seminars to the department as part of learning resource materials.
6. A written & practical test will be conducted at regular intervals at the end of semester.
7. No leave shall be taken without the permission of the HOD.
8. Students will be allowed to start clinical work only after completion of pre-clinical exercises.
9. Students not progressing as per schedule will have to meet the HOD regarding permission to continue.
10. Student shall not use “departmental instruments”
11. Students should attend clinics as per schedule.

12. The topic for the final dissertation has to be selected and finalized & completed within 6 months after commencement of the course and the completed final dissertation should be submitted 6 months before the final MDS examination.
13. Seminars & Journal clubs shall be conducted according to the prescribed time table. Seminar & Journal club topics shall be displayed in advance on the department notice board. The seminars should be duly typed and its copies submitted to all the staff members & PG's of the Department. Also the seminar should be approved one week before the actual presentation from respective staff member.
14. Learning in postgraduate program shall be essentially autonomous and self directed.

## **ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS**

### **OBJECTIVES:**

The training program in Orthodontics is to structure and achieve the following four objectives

### **KNOWLEDGE**

1. The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment.
2. The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problems.
3. Various treatment modalities in Orthodontics Preventive interceptive and corrective.
4. Basic sciences relevant to the practice of orthodontics.
5. Interaction of social, cultural, economic, genetic and environmental factors and their relevance to management of oro – facial deformities.
6. Factors affecting the long-range stability of orthodontic correction and their management.
7. Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of hepatitis and HIV and other highly contagious diseases.

### **SKILLS:**

1. To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dentofacial deformities.
2. To be competent to fabricate and manage the most appropriate appliance – intra or extra oral, removable or fixed, mechanical or functional, and active or passive – for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of orofacial deformities.

### **ATTITUDES:**

1. Develop an attitude to adopt ethical principles in all aspects of Orthodontic Practice.
2. Professional honesty and integrity are to be fostered.
3. Treatment care is to be delivered irrespective of the social status, cast, creed or colleagues.

4. Willingness to share the knowledge and clinical experience with professional colleagues.
5. Willingness to adopt, after a critical assessment, new methods and techniques of orthodontics management developed from time base on scientific research, which are in the best interest of the patient.
6. Respect patient's rights and privileges, including patients right to information and right to seek a second opinion.
7. Develop attitude to seek opinion from allied medical and dental specialists as and when required.

### **COMMUNICATION SKILLS:**

1. Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular Dentofacial problem and to obtain a true informed consent from them for the most appropriate treatment available at that point of time.
2. Develop the ability to communicate with professional colleagues, in Orthodontics or other specialties through various media like correspondence, internet, e- video, conference, etc. To render the best possible treatment.

### **COURSE CONTENT:**

The program outlined, addresses both the knowledge needed in Orthodontics and allied medical specialties in its scope. A minimum of three years of formal training through a graded system of education as specified, will equip the trainee with skill and knowledge at its completion to be able to practice basic Orthodontics and have the ability to intelligently pursue further apprenticeship towards advanced Orthodontics.

#### **I. APPLIED ANATOMY:**

- Prenatal growth of head:  
Stages of embryonic development, origin of head, origin of face, origin of teeth.
- Postnatal growth of head:  
Bones of skull, the oral cavity, development of chin, the hyoid bone, general growth of head face growth.
- Bone growth:  
Origin of bone, composition of bone, units of bone structure, schedule of Ossification, mechanical properties of bone, roentgen graphic appearance of bone

- Assessment of growth and development:  
Growth prediction, growth spurts, the concept of normality and growth increments of growth, differential, growth, gradient of growth, methods of gathering growth data, theories of growth and recent advances, factors affecting physical growth.
- Muscles of mastication:  
Development of muscles, muscles change during growth, muscles function and facial development, muscles function and malocclusion.
- Development of dentition and occlusion:  
Dental development periods, order of tooth eruption, chronology of permanent tooth formation, periods of occlusal development, pattern of occlusion.
- Assessment of skeletal age:  
The carpal bones, carpal x –Ray, cervical vertebrae



## II PHYSIOLOGY:

- **Endocrinology and its disorders**  
(Growth hormone, thyroid hormone, parathyroid hormone, ACTH) pituitary gland hormones, thyroid gland hormones, parathyroid gland hormones
- **Calcium and its metabolism**
- **Nutrition- metabolism and their disorders:** proteins, carbohydrates, fats, vitamins and minerals.
- **Muscle physiology**
- **Craniofacial biology:** cell adhesion molecules and mechanism of adhesion
- **Bleeding disorders in orthodontics:** Hemophilia etc

## III DENTAL MATERIALS:

- **Gypsum products:** dental plaster, dental stone and their properties, setting reaction etc.
- **Impression materials:** impression materials in general and particularly of alginate impression material.
- **Acrylics:** chemistry, composition physical properties.
- **Composites:** composition types, properties setting reaction
- **Banding and bonding cements:**  $Zn(PO_4)_2$  zinc silicophosphate, Zinc polycarboxylate, resin cements and glass ionomer cements
- **Wrought metal alloys:** deformation, strain hardening, annealing, recovery, recrystallization grain growth, properties of metal alloys
- **Orthodontic arch wires:** stainless steel gold, wrought cobalt chromium nickel alloys, alpha & beta titanium alloys.
- **Elastics:** latex and non – latex elastics.
- **Applied physics:** bioengineering and metallurgy.
- **Specification and tests methods:** used for materials used in orthodontics.
- **Survey of all contemporary literature and recent advances:** in above – mentioned materials.

## IV. GENETICS:

- Cell structure, DNA, RNA, protein synthesis, cell division
- Chromosomal abnormalities
- Principles of or facial genetics
- Genetics in malocclusion
- 5 molecular basis of genetics
- Studies related to malocclusion
- Recent advances in genetics related to malocclusion
- Genetic counseling
- Bioethics and relationship to Orthodontics management of patients.

**V. PHYSICAL ANTHROPOLOGY:**

- Evolutionary development of dentition
- Evolutionary development of jaws

**VI. PATHOLOGY:**

- Inflammation
- Necrosis

**VII BIOSTATISTICS:**

- Statistical principles
  - Data collection
  - Method of presentation
  - Method of summarizing
  - Method of analysis – different tests / errors
- Sampling and sampling technique
- Experimental models, design and interpretation
- Development of skills for preparing clear concise and cogent scientific abstracts and publication.

**VIII APPLIED RESEARCH METHODOLOGY IN ORTHODONTICS:**

- Experimental design

- Animal experimental protocol
- Principles in the development, execution and interpretation of methodologies in Orthodontics
- Critical scientific appraisal of literature

## **IX APPLIED PHARMACOLOGY**

### **X ORTHODONTIC HISTORY:**

- History perspective,
- Evolution of orthodontic appliances
- Pencil sketch history of orthodontic peers
- History of orthodontics in India

### **XI CONCEPTS OF OCCLUSION AND ESTHETICS:**

- Structure and function of al anatomic components of occlusion,
- Mechanics of articulation,
- Recording of masticatory function,
- Diagnosis of occlusal dysfunction,
- Relationship of TMJ anatomy and pathology and related neuromuscular physiology,

### **XII ETIOLOGY AND CLASSIFIATION OF MALOCCLUSION:**

- A comprehensive review of the local and systemic factors in the causation of malocclusion,
- Various classifications of malocclusion

### **XIII DENTOFACIAL ANOMALIES:**

- Anatomical physiological and pathology characteristics of major groups of development defects of the orofacial structures

### **XIV CHILD AND ADULT PSYCHOLOGY**

- Stages of child development.
- Theories of psychological development.

- Management of child in orthodontic treatment.
- Management of handicapped child.
- Motivation and psychological problems related to malocclusion / orthodontics
- Adolescent psychology
- Behavioral psychology and communication

**XV DIAGNOSTIC PROCEDURES AND TREATMENT PLANNING IN ORTHODONTICS:**

- Emphasis on the process of data gathering, synthesis and translating it into a treatment plan.
- Problem cases – analysis of cases and its management.
- Adult cases, handicapped and mentally retarded cases and their special problems
- Critique of treated cases.

**XVI CEPHALOMETRICS**

- Instrumentation
- Image processing
- Tracing and analysis of errors and applications
- Radiation hygiene
- Professional relationship
- Dental ethics and jurisprudence
- Office sterilization procedures
- Community based orthodontics.

**XVII CLINICAL ORTHODONTICS:**

**Myofunctional Orthodontics**

- Basic principles
- Contemporary appliances – their design and manipulation
- Case selection and evaluation of the treatment results
- Review of the current literature.

**Dentofacial Orthopedics**

- Principles
- Biomechanics
- Appliance design and manipulation
- Review of contemporary literature

**Cleft lip and palate rehabilitation:**

- Diagnosis and treatment planning
- Mechanotherapy
- Special growth problems of cleft cases
- Speech physiology, pathology and elements of therapy as applied to orthodontics
- Team rehabilitative procedures.

**Biology of tooth movement:**

- Principles of tooth movement – review
- Review of contemporary literature
- Applied histophysiologies of bone periodontal ligament
- Molecular and ultra cellular consideration in tooth movement

**Orthodontic/ orthognathic surgery**

- Orthodontist' role in co-joint diagnosis and treatment planning
- Pre and post – surgical orthodontics
- Participation in actual clinical cases, progress evaluation and post retention study
- Review of current literature

**Ortho / perio / prostho inter relationship**

- Principles of interdisciplinary patient treatment
- Common problems and their management

**Basic principles of mechanotherapy** includes removable appliances and fixed appliances

- Design
- Construction
- Fabrication
- Management
- Review of current literature on treatment methods and results

### **Applied preventive aspects in Orthodontics**

- Caries and periodontal disease prevention
- Oral hygiene measures
- Diagnosis and treatment planning
- Therapy emphasis on:
  - Dento – facial problems
  - Tooth material discrepancies
  - Minor surgery for Orthodontics

### **Retention and relapse**

- Mechanotherapy – special reference to stability of results with various procedures
- Post retention analysis
- Review of contemporary literature

## **XVIII RECENT ADVANCES:**

- Use of implants
- Lasers
- Application of F.E.M.
- Distraction Osteogenesis

### **Pre – Clinical Exercises**

A general outline of the type of exercises is given here.

General wire bending exercises to develop manual dexterity.

1. Clasps, bows and springs used in the removable appliances.
2. Soldering and welding exercises.
3. Fabrication of removable habit breaking, mechanical and functional appliances, also all types of space maintainers and space regainers.
4. Bonwill Hawley ideal arch preparation.

5. Construction of orthodontic models trimmed and polished preferably as preferably as per specifications of tweed or A.B.O.
6. Cephalometric tracing and various analyses, also superimposition methods-
7. Fixed appliance typodont exercises.
  - a) Training shall be imparted in one basic technique i.e. standard Edgewise / Begg technique or its derivative / Straight wire etc. with adequate exposure to other techniques.
  - b) Typodont exercise
    - i) Band making
    - ii) Bracket positioning and placement
    - iii) Different stages in treatment appropriate to technique taught
8. Clinical photography
9. Computerized imaging
10. Preparation of surgical splints, and splints for TMJ problems.
11. Handling of equipments like vacuum forming appliances and hydro solder etc.

**CLINICAL WORK:**

Once the basic pre – clinical work is completed the students can take up clinical cases and the clinical training is for the two and half years.

**Each postgraduate student should start a minimum of 50 cases of his/ her own.**

**Additionally he/ she should handle a minimum of 20 transferred cases.**

The type of cases can be as follows:

- I. Removable active appliances – 5 case
- II. Angle's Class-I malocclusion with crowding
- III. Angle's Class-I malocclusion with bi- maxillary protrusion
- IV. Angle's Class- II division – 1
- V. Angle's Class- II division -2
- VI. Angle's Class-III (orthopedic, surgical, orthodontic cases)
- VII. Inter disciplinary cases
- VIII. Removable functional appliance cases like activator , bionator, functional regulator, twin block and new developments
- IX. Fixed functional appliances – Herbst appliance, Jasper jumper etc – 5 cases
- X. Dento-facial orthopedic appliances like head gears, rapid maxillary expansion, NiTi expander etc., - 5 cases
- XI. Appliance for arch development such as molar distalization, expansion etc – 5 cases
- XII. Fixed mechanotherapy cases (Begg, PEA, Tip edge, edgewise)
- XIII. Retention procedures of above treated cases.



**Other work to be done during FIRST YEAR**

- 1) **Seminars:** two seminars per week to be conducted in the department. A minimum of five seminars should be presented by each student each year.
- 2) **Journal club:** one journal club per week to be conducted in the department. A minimum of five journal clubs should be presented by each student each year.
- 3) **Protocol for dissertation** to be submitted on or before the end of six months from the date of admission.
- 4) **Under graduate classes:** Around 5-6 classes should be handled by each post- graduate student
- 5) **Field survey:** To be conducted and submit the report.
- 6) **Inter- departmental meetings:** should be held once in a month
- 7) **Case discussions:** all cases to be discussed within 3 working days from the day of allotment failing which the patient will be reassigned.
- 8) **Field visits:** to attend dental camps and to educate the masses.
- 9) **Basic subjects classes**
- 10) **Internal assessment or term paper**

**Second year:**

The clinical cases taken up should be followed under the guidance. More case discussions and cases to be taken up. Other routine work as follows:

1. **Seminars:** two seminars per week to be conducted in the department. Each student should present a minimum of five seminars each year.
2. **Journal club:** one journal club per week to be conducted in the department. Each student should present a minimum of five journal clubs each year.
3. **Library assignment** to be submitted on or before the end of six months of second year.
4. **Undergraduate classes:** each post- graduate student should handle around 5- 6 classes.
5. **Inter-departmental meetings:** should be held once in a month.
6. **Case discussions:** all cases to be discussed within 3 working days from the day of allotment failing which the patient will be reassigned.
7. **Field visits:** To attend dental camps and to educate the masses.
8. **Internal assessment or term paper.**
9. **Dissertation work:** On getting the approval from the university work for the dissertation to be started.

**Third Year:**

The clinical cases taken up should be followed under the guidance. More cases discussion and cases to be taken up. Other routine work as follows:

1. **Seminars:** two seminars per week to be conducted in the department. Each student should present a minimum of five seminars each year.
2. **Journal club:** one journal club per week to be conducted in the department. Each student should present a minimum of five seminars each year.
3. **Undergraduate classes:** each post- graduate student should handle around 5-6 classes
4. **Inter-departmental meetings:** should be held once in a month.
5. **The completed dissertation should be submitted six months before the final examination**
6. **Case discussion:** all cases to be discussed within 3 working days from the day of allotment failing which the patient will be reassigned.
7. **Field visits:** to attend dental camps and to educate the masses.
8. Finishing and presenting the cases taken up.
9. **Preparation of finished cases and presenting the cases** (to be presented for the examination)
10. **Mock Examination**

**DISSERTATION:**

- a) The protocol for dissertation should be submitted on or before the end of six months from the date of admission as per calendar of events to the register, Chaudhary Charan Singh University Meerut, through proper channel.
- b) The completed dissertation should be submitted 6 months before the final examination as per calendar of events to the registrar (Evaluation), Chaudhary Charan Singh University Meerut through proper channel.
- c) The dissertation should not be just a repetition of a previously undertaken study but it should try to explore some new aspects.
- d) Approval of dissertation is essential before candidate appears for the University examination.

**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 should 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. Checklists are given in section IV.

## **SCHEME OF EXAMINATION:**

### **(a) ELIGIBILITY:**

The following requirements shall be fulfilled by the candidate to become eligible for the final examination:

**(i) Attendance:** Every candidate shall secure (80% attendance during each academic year).

**(ii) Progress and conduct:** Every candidate shall participate in seminars, journal review meetings,

symposia, conferences, case presentations, clinics and didactic lectures during each year organised by the concerned department.

**(iii) Work diary and log book:** Every candidate shall maintain a work diary and log book as per Annexure-I appended to these regulations for recording his or her participation in the training programmes conducted by the department. The work diary and log book shall be verified and certified by the Head of the Department of the institution. The certification of satisfactory progress is based on the work diary and log book.

### **(b) UNIVERSITY EXAMINATION.**

The university examination shall consist of theory, practical and clinical examination and viva-voce and Pedagogy.

#### **(i) Theory:**

**Part-I:** Shall consist of one paper

There shall be a theory examination in the Basic Sciences at the end of 1st year of course. The question papers shall be set and evaluated by the concerned Department/Specialty. The candidates shall have to secure a minimum of 50% in the Basic Sciences and shall have to pass the **Part-I** examination at least six months prior to the final (Part-II) examination.

**Part-II:** Shall consist of:

- (i) Theory: Three papers ( Paper I, II and III)
- (ii) Practical and Clinical Examination;
- (iii) Viva-voce; and
- (iv) Pedagogy.

**SCHEME OF EXAMINATION:****Theory:** Part-I: Basic Sciences Paper - **100 Marks**Part-II: Paper-I, Paper-II & Paper-III - **300 Marks** (100 Marks for each Paper)

Written examination shall consist of Basic Sciences (Part-I) of three hours duration shall be conducted at the end of First year of MDS course. Part-II Examination shall be conducted at the end of Third year of MDS course. Part-II Examination shall consist of Paper-I, Paper-II and Paper-III, each of three hours duration. Paper-I & Paper-II shall consist of two long answer questions carrying 25 marks each and five questions carrying 10 marks each. Paper-III will be on Essays. In Paper-III three Questions will be given and student has to answer any two questions. Each question carries 50 marks. Questions on recent advances may be asked in any or all the papers. Distribution of topics for each paper will be as follows:

**DISTRIBUTION OF MARKS:****Theory : (Total 400 Marks)****(1) Part I University Examination (100 Marks):-**

There shall be 10 questions of 10 marks each (Total of 100 Marks)

**(2) Part II (3 papers of 100 Marks):-**

(i) Paper-I: 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)

(ii) Paper-II: 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)

(iii) Paper III: 2 out of 3 essay questions (50 x 2 = 100 Marks)

**Practical and Clinical Examination : 200 Marks****Viva-voce and Pedagogy : 100 Marks****COURSE SYLLABUS:****Part-I**

**Paper-I : Applied Basic Sciences:** Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology.

**Part-II**

Paper-I : Orthodontic history, Concepts of occlusion and esthetics, Child and Adult Psychology, Etiology and classification of malocclusion, Dentofacial Anomalies, Diagnostic

procedures and treatment planning in Orthodontics, Practice management in Orthodontic

Paper II : Clinical Orthodontics

Paper III : Descriptive and analysing type question

# **I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

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## **DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY**

**M.D.S COURSE**

**REGULATIONS, SYLLABUS & CURRICULUM**



**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi- Meerut Road, Muradnagar, Ghaziabad

## DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY

**FACULTY**

<b>Name</b>	<b>-</b>	<b>Designation</b>
Dr. Shivani Mathur	-	Professor
Dr. Manvi Malik	-	Reader
Dr.Madhulika Srivastava	-	Reader
Dr. Pulkit Jhingan	-	Reader
Dr. Urvashi Verma	-	Sr. Lecturer
Dr. Divya Doneria	-	Sr. Lecturer

**INSTRUCTIONS TO P.G STUDENTS**

1. They should procure all the required armamentarium necessary for “BASIC EXERCISE” as they enter the department.
2. The time given for the basic exercise should be strictly adhered, failing which remarks shall be entered in their personal files.
3. Time allotted for completion of all Pre- Clinical exercises with in 6 months.
4. The students should submit in detail all the seminars to the department as part of learning resource materials.
5. A written test will be conducted at regular intervals.
6. No leave shall be taken without the permission of the postgraduate guide / HOD.
7. Students will be allowed to start clinical work after 6 months that is after the completion of first semester.
8. Students not progressing as per schedule will have to meet the HOD regarding permission to continue.
9. Students shall not use “departmental instruments”.
10. Students should attend clinics as per schedule.
11. The topic for the final dissertation and LD should be selected in first 6 months and protocol for the thesis must be submitted at the end of the first semester. Completed final dissertation should be submitted 6 months before the final MDS examination.
12. Seminars & Journal clubs shall be conducted according to the schedule. Seminar & Journal club topics shall be displayed in advance on the department notice board. The seminars should be duly typed and the copies submitted to all the staff members & PG’s of the department. Also the seminar should be approved one week before the actual presentation from respective staff member.
13. Learning in postgraduate program shall be essentially autonomous and self directed.

**OBJECTIVES:**

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

1. Create not only a good moral health in the child but also a good citizen tomorrow.
2. Instill a positive attitude and behavior in children.
3. Understand the principles of prevention and preventive dentistry right from birth to adolescence.
4. Guide and counsel the parents in regards to various treatment modalities including different facets of individual requirement and conditions.
5. Prevent and intercept developing malocclusion.

**SKILLS:**

1. Obtain proper clinical history, methodological examination of the child patient, perform essential diagnostic procedures and interpret them. And arrive at a reasonable diagnosis and treat appropriately.
2. Be competent to treat dental diseases which are occurring in child patient.
3. Manage to repair and restore the lost/tooth structure to maintain harmony between both hard and soft tissues of the oral cavity.
4. Manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.
5. To acquire skills in managing efficiently life threatening condition with emphasis on basic life support measure.

**ATTITUDES:**

1. Develop an attitude to adopt ethical principles in all aspects of Pedodontic practice.
2. Professional honesty, integrity are to be fostered.
3. Treatment care is to be delivered irrespective of the social status, cast, creed, and religion of the patients.
4. Willingness to share the knowledge and clinical experience with professional colleagues.
5. Willingness to adopt, after a critical assessment, new methods and techniques of Pedodontic management developed from time to time, based on scientific research, which are in the best interest of the child patient.
6. Respect child patient's rights and privileges, including child patients right to information and right to information and right to seek a second opinion.
7. Develop an attitude to seek opinion from allied medical and dental specialties, as and when required.

## COURSE CONTENTS

### Applied Basic Sciences

1. Applied Anatomy
2. Applied Physiology
3. Applied Pathology
4. Nutrition and dietetics.
  
5. **GROWTH AND DEVELOPMENT:** Prenatal and postnatal development of cranium, face, jaws, teeth and supporting structures. Chronology of dental development and development of occlusion. Dimensional changes in dental arches. Cephalometric evaluation of growth.
6. **CHILD PSYCHOLOGY:** Development & classification of behavior personality, intelligence in children, theories of child psychology, stages of psychological child development, fear anxiety, apprehension & its management.
7. **BEHAVIOR MANAGEMENT:** Non- pharmacological & Pharmacological methods.
8. **CHILD ABUSE & NEGLECT:**
9. **CONSCIOUS SEDATION, DEEP SEDATION & GENERAL ANESTHESIA IN PEDIATRIC DENTISTRY:**  
(Including Other Drugs, Synergetic & Antagonistic Actions of Various Drugs Used in Children)
10. **PREVENTIVE PEDODONTICS:** Concepts chairside preventive measures for dental diseases, high risk caries including rampant & extensive caries - Recognition, Features & Preventive Management, Pit & fissures Sealants, Oral Hygiene measures, Correlation of brushing with dental caries & periodontal diseases. Diet & Nutrition as related to dental caries. Diet Counselling.
11. **DENTAL PLAQUE:** Definition, Initiation, Pathogenesis, Biochemistry, Morphology & Metabolism.
12. **MICROBIOLOGY & IMMUNOLOGY AS RELATED TO ORAL DISEASES IN CHILDREN:** Basic concepts, Immune system in human body. Auto Immune diseases, Histopathology, Pathogenesis, Immunology of dental caries. Periodontal diseases, Tumours, Oral Mucosal lesions etc.
13. **GINGIVAL & PERIODONTAL DISEASES IN CHILDREN.**
  - Normal Gingival & Periodontal in children.
  - Gingival & Periodontal diseases-Etiology, Pathogenesis, Preventions & Management.

## 14. PEDIATRIC OPERATIVE DENTISTRY:

- ❖ Principle of Pediatric Operative Dentistry along with modifications of materials/past, current & latest including tooth coloured materials.
- ❖ Modifications required for cavity preparation in primary and young permanent teeth.
- ❖ Various Isolation Techniques.
- ❖ Restorations of decayed primary young permanent and permanent teeth in children using various restorative material like Glass Ionomer, Composites, Silver, Amalgam & latest material (gallium).
- ❖ Stainless steel, Polycarbonate & Resin Crowns/Veneers & Crowns.

## 15. PEDIATRIC ENDODONTICS:

- Primary Dentition:- Diagnosis of pulpal diseases & their management Pulp capping, Pulpotomy, Pulpectomy, (Materials & Methods), Controversies & recent concepts.
- Young permanent teeth & permanent teeth, Pulp capping, Pulpotomy, Apexogenesis, Alexification. Concepts, Techniques and materials used for different procedures.
- Recent advance in Pediatric Endodontics.

## 16. PROSTHETIC CONSIDERATION IN PEDIATRIC DENTISTRY.

## 17. TRAUMATIC INJURIES IN CHILDREN:-

- Classification & Importance.
- Sequelae & reaction of teeth to trauma.
- Management of Traumatized teeth with latest concepts.

## 18. INTERCEPTIVE ORTHODONTICS:

- Concepts of occlusion and esthetics: Structure and function of all anatomic components of occlusion, mechanism of articulations, recording of masticatory function, diagnosis of occlusal dysfunction, relationship of TMJ anatomy & pathology and related neuromuscular physiology.
- A comprehensive review of the local and systemic factors in the causation of malocclusion.
- Recognition and management of normal and abnormal developmental occlusions in primary, mixed and permanent dentition in children (Occlusal Guidance)
- Biology of Tooth Movement : A Comprehensive review of the principles of teeth movement : review of contemporary literature. Histopathology of bone and periodontal ligament, Molecular and ultra cellular consideration in tooth movement.

- Myofunctional appliances: Basic principles, contemporary appliances, Design & Fabrication.
- Removable appliances: Basic principles, contemporary appliances, Design Fabrication.
- Case selection & diagnosis in interceptive Orthodontics (Cephalometrics, Image processing, Tracing, Radiation hygiene, Video imaging & advance cephalometric techniques).
- Space Management: Etiology, Diagnosis of space problems, Analysis, Biomechanics, Serial Extractions.

19. ORAL HABITS IN CHILDREN:

- Definition, etiology & Classification.
- Clinical features of digit sucking, tongue thrusting, mouth breathing & various other secondary habits.
- Management of oral habits in children.

20. DENTAL CARE OF CHILDREN WITH SPECIAL NEEDS:

-Definition, etiology, Classification, Behavioral, Clinical features & Management of children with:

- Physical handicapping condition.
- Mentally compromising condition.
- Medically compromising condition.
- Genetic disorders.

21. ORAL MANIFESTATION OF SYSTEMIC CONDITION IN CHILDREN AND THEIR MANAGEMENT:

22. MANAGEMENT OF MINOR ORAL SURGICAL PROCEDURE IN CHILDREN.

23. DENTAL RADIOLOGY AS RELATED TO PEDIATRIC DENTISTRY.

24. CARIOLOGY:

- Historical background.
- Definition, etiology, & Pathogenesis.
- Caries pattern in primary young permanent children and permanent teeth in children.
- Rampant caries, early childhood caries and extensive caries: Definition, etiology, & Pathogenesis, Clinical features, Complications & Management.

- Role of diet and nutrition in Dental Caries.
  - Dietary modification & Diet counseling.
  - Caries activity, tests, Caries prediction, Caries susceptibility & their clinical Applications.
25. PEDIATRIC ORAL MEDICINE & CLINICAL PATHOLOGY:  
Recognition & Management of development dental anomalies, teething disorders, stomatological conditions, mucosal lesions, viral infections etc.
26. CONGENITAL ABNORMALITIES IN CHILDREN:  
Definition, Classification, Clinical features & Management.
27. DENTAL EMERGENCIES IN CHILDREN AND THEIR MANAGEMENT.
28. DENTAL MATERIAL USED IN PEDIATRIC DENTISTRY.
29. PREVENTIVE DENTISTRY:  
- Definition:
- Principles & Scope
  - Type of prevention
  - Different preventive measures used in Pediatric Dentistry including fissure sealants and caries vaccine.
30. DENTAL HEALTH EDUCATION & SCHOOL DENTAL HEALTH PROGRAMMES:
31. Dental Health Concepts, Effects of civilization and environment Dental Health delivery system, public Health measures related to children along with principles of children's Preventive Dentistry.
32. FLUORIDES:
- Historical Background.
  - Systemic and Topical fluorides.
  - Mechanism of action.
  - Toxicity & Management.

- Deflouridation techniques.
33. Medicolegal spats in Pediatric Dentistry with euplastic an unfocused consent.
  34. Counseling in Pedantic Dentistry.
  - 35. CASE HISTORY RECORDING:**
    - Outline of principles of examination, diagnosis & treatment planning.
  36. **EPIDEMIOLOGY:**  
Concepts, Methods of recording & evaluation of various oral disease. Various national and global trends of epidemiology of oral diseases.
  37. Comprehensive infant oral health care
  38. Principles of bio- statistics & research methodology & understanding of computers and photography
  39. Comprehensive cleft care management with emphasis on counseling, feeding, nasoalveolar bone remodeling, speech rehabilitation.
  40. Setting up of pedodontics & preveventive clinic
  41. Emerging concept in paediatric dentistry & scope of laser/minimum invasive procedures in paediatric dentistry.



## PRECLINICAL WORK

[Duration – 1<sup>st</sup> 6 Months of First Year MDS]

(One on Each Exercise)

1. Carving of all deciduous teeth
2. Basic wire bending exercise
3. Fabrication of
  - a. Maxillary bite plate / Hawley's appliance
  - b. Maxillary expansion screw appliance
  - c. Canine retractor appliance
  - d. All habit breaking appliances
    - Removable type
    - Fixed type
    - Partially fixed and removable
  - e. Two Myofunctional appliances
  - f. Making of inclined plane appliances
  - g. Feeding appliances
4. Basic soldering exercise I – making of a lamppost of stainless steel wire pieces of different gauges soldered on either side of heavy gauge main post.
5. Fabrication of space maintainers
  - a. Removable type-
    - Unilateral Non – Functional space maintainer
    - Bilateral Non- Functional space maintainer
    - Unilateral functional space maintainer
    - Bilateral functional space maintainer
  - b. Space Regainers-
    - Hawley's appliances with Helical space regainer
    - Removable appliance with Slingshot space regainer
    - Removable appliance with Dumbbell space regainer
  - c. Fixed space maintainers-
    - Band & long loop space maintainer
    - Band & short loop space maintainer
    - Mayne's space maintainer
    - Transpalatal arch space maintainer
    - Nance Palatal holding arch
    - Nance Palatal holding arch with canine stoppers
    - Gerber space regainer
  - d. Distal shoe appliance
    - Active space maintainer
    - For guiding the eruption of first permanent molar
    - Arch holding device

- Functional space maintainer
6. Basics for spot welding exercise
  7. Collection of extracted deciduous and permanent teeth
    - a. Sectioning of the teeth at various levels and planes
    - b. Drawing of section and shapes of pulp
    - c. Phantom Head Exercise: Performing ideal cavity preparation for various restorative materials for both Deciduous and permanent teeth
    - d. Performing pulpotomy, root canal treatment and Apexification procedure
      - (i) Tooth preparation and fabrication of various temporary and permanent restorations on fractured anterior teeth
      - (ii) Preparation of teeth for various types of crowns
      - (iii) Laminates / veneers
      - (iv) Bonding & banding exercise
  8. Performing for behavioral rating and IQ tests for children:
  9. Computation of :-
    - a. Caries index and performing various caries activity test
    - b. Oral Hygiene Index
    - c. Periodontal Index
    - d. Fluorosis Index
  10. Surgical Exercise: a. Fabrication of splints. b. Type of Wiring. c. Suturing.
  11. a. Taking of periapical, occlusal, bitewing radiographs of children
    - b. Developing and processing of films, thus obtained
    - c. Tracing of soft tissue dental and skeletal landmarks as observed on Cephalometric radiographs and drawing of various planes and angles, further interpretation of Cephalometric radiograph analysis.
    - d. Mixed dentition cast analysis

### Clinical work Requirements from 7 to 36 months

The following is the minimum requirement to be completed before the candidate can be considered eligible to appear in the final M.D.S Examinations:

S.No.	Clinical Work	Total	7 To 12 Months	13 To 24 Months	25 To 36 Months
1.	Behavior Management of different age groups children with complete records.	17	2	10	5
2.	Detailed Case evaluation with complete records, treatment planning and presentation of cases with chair side discussion	17	2	10	5
3.	Step-by-step chair side preventive dentistry scheduled for high risk children with gingival and periodontal diseases & Dental Caries	11	1	5	5
4.	Practical application of Preventive dentistry concepts in a class of 35-50 children & Dental Health Education & Motivation.	7	1	4	2
5.	Pediatric Operative Dentistry with application of recent concepts.				
	(a). Management of Dental Caries				
	(I) Class I	50	30	10	10
	(II) Class II	100	40	50	10
	(III) Other Restorations	100	20	50	30
	(b). Management of Traumatized anterior teeth	15	04	06	05
	(c) Aesthetic Restorations	25	05	10	10
	(d). Pediatric Endodontic Procedures				
	• Deciduous teeth Pulpotomy/Pulpectomy	150	30	50	70
	• Permanent Molars	20	3	7	10
	• Permanent Incisor	15	2	3	10
	• Apexification & Apexogenesis	20	02	08	10
6.	Stainless Steel Crowns	50	10	20	20
7.	Other Crowns	05	01	02	02
8.	Fixed : Space Maintainers Habit breaking appliances	20	05	07	08
9.	Removable : Space Maintainers Habit breaking appliances	20	05	07	08
10.	Functional Appliances	05	01	02	02
11.	Preventive measures like fluoride applications & Pit & Fissure Sealants applications with complete follow-up and diet counseling	20	08	08	04
12.	Special Assignments	03	01	01	01

	(i) School Dental Health Programmes				
	(ii) Camps etc.,	02	01	01	-

13. Library usage
14. Laboratory usage
15. Continuing Dental Health Programme  
(The figures given against SI. No. 4 to 12 are the minimum number of recommended procedures to be performed).
16. Apart from the above mentioned procedures a minimum of 2 patients per week in 1<sup>st</sup> year, 4 patients per week in 2<sup>nd</sup> year and 4 patients per week in 3<sup>rd</sup> year have to be done under Nitrous Oxide Inhalation Sedation.
17. A student must do a minimum of 1 case under General Anesthesia during his/her course of PG.
18. A student must do a minimum of 1 complete case of 2\*4 appliance during his/her course of PG.
19. A student must do a minimum of 2 patients per week in 1st year, 4 patients per week in 2nd year and 4 patients per week in 3rd year using Lasers.
20. A student must do a minimum of 25 single sitting RCT's during his/her course of PG.

## SCHEME OF EXAMINATION:

<b>A. Theory:</b> Part-I: Basic Sciences Paper -	<b>100 Marks</b>
Part-II: Paper-I, Paper-II & Paper-III -	<b>300 Marks</b>
	(100 Marks for each Paper)

Written examination shall consist of Basic Sciences Paper (Part-I) of three hours duration and should be conducted at the end of First year of MDS course. Part-II Examination will be conducted at the end of Third year of MDS course. Part-II Examination will consist of Paper-I, Paper-II & Paper-III, each of three hours duration. Paper-I & Paper-II shall consist of two long answer questions carrying 25 marks each and five questions carrying 10 marks each. Paper-III will be on Essays. In Paper-III three Questions will be given and student has to answer any two questions. Each question carries 50 marks. Questions on recent advances may be asked in any or all the papers. Distribution of topics for each paper will be as follows:

**Part-I: Applied Basic Sciences** – Applied Basic Sciences: Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics Growth & Development and Dental plaque, Genetics.

### Part-II:

#### Paper-I :Clinical Paedodontics

1. Conscious sedation, Deep Sedation & General Anesthesia in Pediatric Dentistry
2. Gingival & Periodontal Diseases in Children
3. Pediatric Operative Dentistry
4. Pediatric Endodontics
5. Traumatic Injuries in Children
6. Interceptive Orthodontics
7. Oral Habits in children
8. Dental Care of Children with special needs
9. Oral Manifestations of Systemic Conditions in Children & their Management
10. Management of Minor Oral Surgical Procedures in Children
11. Dental Radiology as Related to Pediatric Dentistry
12. Pediatric Oral Medicine & Clinical Pathology
13. Congenital Abnormalities in Children
14. Dental Emergencies in Children & Their Management
15. Dental Materials Used in Pediatric Dentistry
16. Case History Recording
17. Setting up of Paedodontic & Preventive Dentistry Clinic

#### Paper-II: Preventive and Community Dentistry as applied to Pediatric Dentistry

1. Child Psychology
2. Behavior Management
3. Child Abuse & Dental Neglect
4. Preventive Paedodontics
5. Cariology
6. Preventive Dentistry
7. Dental Health Education & School Dental Health Programmes:
8. Fluorides
9. Epidemiology

10. Comprehensive Infant Oral Health Care/Comprehensive cleft care  
 11. Principles of Bio-Statistics & Research Methodology & Understanding of Computers and Photography

**Paper-III:** Essays (descriptive and analyzing type questions)

*\* The topics assigned to the different papers are generally evaluated under those sections. However a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics*

**B. Practical / Clinical Examination : 200 Marks**

The Clinical / Practical and Viva-Voce Examinations are conducted for a minimum of two days.

**First Day:**

**1. Case Discussion, Pulp Therapy i.e. Pulpectomy on a Primary Molar.**

Case Discussion : 20 marks

Rubber Dam application : 10 marks

Working length X-ray : 20 marks

Obturation : 20 marks

Total 70 marks

**2. Case Discussion, Crown preparation on a Primary Molar for Stainless steel crown and cementation of the same.**

Case discussion : 10 marks

Crown Preparation : 20 marks

Crown selection and Cementation : 20 marks

Total 50 marks

**3. Case Discussion, band adaptation for fixed type of space maintainer and impression making.**

Case discussion : 20 marks

Band adaptation : 20 marks

Impression : 20 marks

Total 60 marks

**Second Day:**

**1. Evaluation of Fixed Space Maintainer and Cementation : 20 marks**

**C. Viva Voce : 100 Marks**

*i. Viva-Voce examination : 80 marks*

All examiners will conduct viva-voce conjointly on candidate's comprehension, analytical approach, expression, interpretation of data and communication skills. It includes all components of course contents. It includes presentation and discussion on dissertation also.

*ii. Pedagogy Exercise : 20 marks*

A topic be given to each candidate in the beginning of clinical examination. He/she is asked to make a presentation on the topic for 8-10 minutes.

## LIST OF SEMINARS

1. Introduction and Scope of Pediatric Dentistry.
2. Anatomy of Head and Neck.
3. Prenatal and Post natal growth of head and neck.
4. Cranial and facial bones.
5. TMJ anatomy and disorders.
6. Muscles of mastication.
7. Oral musculature and Tongue.
8. Functional anatomy of swallowing and deglutition.
9. Introduction to Biostatistics-Source and presentation of data.
10. Designing and methodology of a study.
11. Sampling and its Significance.
12. Interpretation of data.
13. Saliva.
14. Salivary glands.
15. Immunity.
16. Structure and function of brain and Cranial nerves with special consideration to V, VII, IX, XI.
17. Local Anesthesia.
18. Speech.
19. Enamel.
20. Dentine and Cementum.
21. Pulp.
22. Blood.
23. Oral microflora.
24. Traumatic Injuries In Primary Teeth.
25. Drugs used in Pediatric Dentistry.
26. Pediatric oral Medicine and Clinical Pathology.
27. Dental Radiology as related to Pediatric Dentistry.
28. Genetic in Pediatric Dentistry.
29. Dental age assessment.
30. Development of Occlusion.
31. Theories of child psychology – Freud, Erickson, Piaget.
32. Emotional development of child.
33. Pharmacological management of child's behavior.
34. Non pharmacological management of child's behavior.
35. Child abuse and neglect.
36. Introduction and etiology of dental caries.
37. Epidemiology of dental caries.
38. Caries Risk Assessment.
39. Diet and Dental caries.
40. Caries Pattern.
41. Early Childhood Caries.
42. Nutritional consideration for Pediatric Dental patients.
43. Latest concepts in prevention of dental caries.
44. Diet counseling.
45. Introduction and historical background of Fluorides.
46. Mechanism of action of fluorides.

47. Topical Fluorides.
48. Systemic Fluorides.
49. Fluoride Toxicity.
50. Defluoridation.
51. Immunology of dental caries.
52. Restorative materials- Historical background.
53. Amalgams.
54. Composites.
55. Glass Ionomer Cements.
56. Development of restorative technique.
57. Isolation technique.
58. Restorative of primary and permanent teeth.
59. Stainless steel crown.
60. Full coverage restoration of primary anterior teeth.
61. Diagnosis of pulpal disease.
62. Endodontics Instruments.
63. Indirect and Direct Pulp Capping for Primary and Permanent Teeth.
64. Pulpotomy In Primary Teeth.
65. Pulpectomy In Primary Teeth.
66. Endodontics for young permanent teeth.
67. Single Visit Vs. Multiple Visit RCT
68. Heart and Blood Disorder.
69. Cleft Lip and Palate & Epilepsy.
70. Hepatitis and AIDS.
71. Respiratory Disorder.
72. Mental Disability, Downs Syndrome, Learning Disability, Fragile X syndrome, Fetal Alcohol Syndrome, Autism, Cerebral Palsy, Spina Bifida
73. Child Dental Emergencies.
74. Dental plaque.
75. Metabolism of Dental Plaque.
76. Home care methods.
77. Gingival and Periodontal Diseases in children.
78. Immunology of periodontal disease.
79. Management of gingival and Periodontal diseases.
80. Biology of tooth movement.
81. Myofunctional appliances.
82. Removal appliances- basis principles.
83. Cephalometric and advanced techniques.
84. Space management.
85. Oral Habits.
86. Interceptive orthodontics.
87. Dental health education and school dental health programmes.
88. Setting up of Pedodontics and Preventive Dentistry Clinic.
89. Prosthetic consideration in Paediatric Dentistry.
90. Forensic Pedodontic.



**LIST OF BOOKS REQUIRED**

1. Pediatric Dentistry: Scientific foundation & Clinical practice by Stewart Ray E, Barber Thomas H.
2. Fundamentals of Pediatric Dentistry by Richard S Mathewson.
3. Text Book of Pediatric Dentistry by Stephen H Wei.
4. Occlusal Guidance in Pediatric Dentistry by Stephen H Wei.
5. Dentistry for the Child & Adolescence by Mc. Donald Raiph.
6. Text Book of Pedodontics by Shobha Tandon.
7. Fluorides in Preventive Dentistry by Ripa L.W.
8. Text Book of Preventive Dentistry by Newburn E.
9. Nutrition in Clinical dentistry by Abraham E. Nizel.
10. Fluoride in Dentistry by J. Ekstrand, Ole Fejerskow & Silverstone.

## CHECK LIST AND LOG BOOKS

### CHECK LIST – 1

#### MODEL CHECK LIST FOR EVALUATION OF JOURNAL REVIEW PRESENTATIONS

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S.No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Article chosen was					
2.	Extent of understanding of scope & objective of the paper by the candidate					
3.	Whether cross – reference have been consulted					
4.	Whether other relevant publications consulted					
5.	Ability to respond to question on the paper / subject					
6.	Audio – Visual aids used					
7.	Ability to defend the paper					
8.	Clarity to presentation					
9.	Any other observation					
<b>Total Score</b>						

## I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

Delhi – Meerut Road, Muradnagar, Ghaziabad

### CHECK LIST – 2

#### MODEL CHECK LIST FOR EVALUATION OF SEMINAR PRESENTATIONS

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S.No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Whether other relevant publication consulted					
2.	Whether cross- references have been consulted					
3.	Completeness of preparation					
4.	Clarity of presentation					
5.	Understanding of subject					
6.	Ability to answer the question					
7.	Time Scheduling					
8.	Appropriate use of Audio-Visual aids					
9.	Overall performance					
10.	Any other observation					
<b>Total Score</b>						

## I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

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### CHECK LIST – 3

#### MODEL CHECK LIST FOR EVALUATION OF CLINICAL WORK IN OPD

(To be completed once a month by respective Unit Heads including posting in other department)

Name of the Trainee:

Date:

Name of the Unit Head:

S.No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Regularity of attendance					
2.	Punctuality					
3.	Interaction with colleagues and supportive staff					
4.	Maintenance of case records					
5.	Presentation of cases					
6.	Investigation work up					
7.	Chair- Side manners					
8.	Rapport with patients					
9.	Overall quality of clinical work					
<b>Total Score</b>						

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**  
Delhi – Meerut Road, Muradnagar, Ghaziabad

**CHECK LIST – 3**

**MODEL CHECK LIST FOR EVALUATION OF CLINICAL WORK IN OPD**

(To be completed once a month by respective Unit Heads including posting in other department)

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S.No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness of History					
2.	Whether all relevant points elicited					
3.	Clarity of presentation					
4.	Logical order					
5.	Mentioned all positive and negative					
6.	Accuracy of general physical examination					
7.	Diagnosis: Whether it follows logically from history and findings					
8.	Investigations required					
9.	Ability to react to questioning whether it follows logically from history and findings					
10.	Ability to defend diagnosis					
11.	Ability to justified differential diagnosis					
12.	Others					
<b>Grand Total</b>						

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### CHECK LIST – 4

#### MODEL CHECK LIST FOR EVALUATION OF CLINICAL CASE PRESENTATION

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S.No.	Items for Observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness of History					
2.	Whether all relevant points elicited					
3.	Clarity of presentation					
4.	Logical order					
5.	Mentioned all positive and negative					
6.	Accuracy of general physical examination					
7.	Diagnosis: Whether it follows logically from history and findings					
8.	Investigations required					
9.	Ability to react to questioning whether it follows logically from history and findings					
10.	Ability to defend diagnosis					
11.	Ability to justified differential diagnosis					
12.	Others					
<b>Grand Total</b>						

Please use a separate sheet for each faculty member.

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### CHECK LIST – 5

#### MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S.No.		Strong Point	Weak Point
1.	Communication of the purpose of the talk		
2.	Evokes audience interest in the subject		
3.	The introduction		
4.	The sequence if ideas		
5.	The use of practical examples and /or illustrations		
6.	Speaking style (enjoyable, monotonous, etc. specify)		
7.	Attempt audience participation		
8.	Summary of the main points at the end		
9.	Ask questions		
10.	Answer questions asked by the audience		
11.	Rapport of speaker with his audience		
12.	Effectiveness of the talk		
13.	Uses AV aids appropriately		

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### CHECK LIST – 6

#### MODEL CHECK LIST FOR DISSERTATION PRESENTATION

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S.No.	Prints to be considered	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Interest shown in selecting topic					
2.	Appropriate review					
3.	Discussion with guide and other faculty					
4.	Quality of protocol					
5.	Preparation of proforma					
<b>Total Score</b>						



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**CHECK LIST – 7**

**CONTINUOUS EVALUATION OF DISSERTATION WORK BY GUIDE / CO- GUIDE**

Name of the Trainee:

Date:

Name of the Faculty / Observer:

S.No.	Prints to be considered	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Periodic consultation with guide / co-guide					
2.	Regular collection of case material					
3.	Depth of analysis / Discussion					
4.	Department presentation of findings					
5.	Quality of final output					
6.	Others					
<b>Total Score</b>						

**Signature of HOD**

The above overall assessment sheet used along with the logbooks should form the basis for certifying satisfactory completion of course of study, in addition to the attendance requirement.

K.E.Y:

**Faculty member**: Name of the faculty doing the assessment.

**Mean Score**: Is the sum of all the scores of checklist 1 to 7.

A, B, ..... Name of the trainees.

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**CHECK LIST – 8**

**OVERALL ASSESSMENT SHEET**

Date:

S.No	Faculty member	Name of the trainee and mean score									
		A	B	C	D	E	F	G	H	I	J
1.											
2.											
3.											
4.											
5.											
6.											

**Signature of HOD**

**Signature of Principal**

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi – Meerut Road, Muradnagar, Ghaziabad

**Log book**

Table 1

**Academic activities attended****Name:****Admission year:****College:**

<b>Date</b>	<b>Type of activities specify Seminar, Journal club, presentation, UG teaching</b>	<b>Particulars</b>

**I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH**

Delhi – Meerut Road, Muradnagar, Ghaziabad

**Log book****Table 2****Academic Presentations made by the trainee****Name:****Admission year:****College:**

<b>Date</b>	<b>Topic</b>	<b>Type of activities specify Seminar, Journal club, presentation, UG teaching etc.</b>

# I.T.S CENTRE FOR DENTAL STUDIES & RESEARCH

Delhi – Meerut Road, Muradnagar, Ghaziabad

## Log book

Table 3

### Diagnosis and Operative procedure performed

Name:

Admission year:

College:

Date	Name	OP No.	Procedure	Category O,A, PA, PI

**Key:**

O : Washed up and observed – initial 6 months of admission

A : Assisted a more senior surgeon – I year MDS

PA : Performed procedure under the direct supervision of a senior surgeon – II year MDS

PI : Performed independently – III year MDS

\*\*\*\*\*

# **PRE-CLINICAL EXERCISES**

## **PRECLINICAL**

### **WAX CARVING EXERCISE**

<b><u>SL NO</u></b>	<b><u>EXERCISE</u></b>	<b><u>SIGNATURE</u></b>
1	PERMANENT MAXILLARY CENTRAL INCISOR	
2	PERMANENT MAXILLARY LATERAL INCISOR	
3	PERMANENT MAXILLARY CANINE	
4	PERMANENT MAXILLARY FIRST PREMOLAR	
5	PERMANENT MAXILLARY SECOND PREMOLAR	
6	PERMANENT MAXILLARY FIRST MOLAR	
7	PERMANENT MAXILLARY SECOND MOLAR	
8	PERMANENT MANDIBULAR CENTRAL INCISOR	
9	PERMANENT MANDIBULAR LATERAL INCISOR	
10	PERMANENT MANDIBULAR CANINE	
11	PERMANENT MANDIBULAR FIRST PREMOLAR	
12	PERMANENT MANDIBULAR SECOND PREMOLAR	
13	PERMANENT MANDIBULAR FIRST MOLAR	
14	PERMANENT MANDIBULAR SECOND MOLAR	

## **BASIC WIRE BENDING**

<b><u>SL NO</u></b>	<b><u>EXERCISE</u></b>	<b><u>SIGNATURE</u></b>
1	STRAIGHTENING OF WIRE 5"	
2	RECTANGLE 1"*2"	
3	SQUARE 2"*2"	
4	TRIANGLE 2" SIDE	
5	CIRCLE 2" DIAMETER	
6	C CLASP	
7	U CLASP	
8	TRIANGLE CLASP	
9	PIN HEAD CLASP	
10	ADAMS CLASP	
11	ADAMS CLASP WITH HELIX	
12	FINGER SPRING	
13	Z SPRING	
14	COFFIN SPRING	
15	HELICAL CANINE RETRACTOR	
16	U LOOP CANINE RETRACTOR	
17	SELF SUPPORTED BUCCAL CANINE RETRACTOR	
18	SHORT LABIAL BOW	
19	LONG LABIAL BOW	



## REMOVABLE APPLIANCE

<b><u>SL NO</u></b>	<b><u>EXERCISE</u></b>	<b><u>SIGNATURE</u></b>
1	MAXILLARY HAWLEY'S APPLIANCE	
2	MAXILLARY APPLIANCE WITH SHORT LABIAL BOW WITH FINGER SPRING	
3	MAXILLARY APPLIANCE WITH SELF SUPPORTED CANINE RETRACTOR	
4	MAXILLARY APPLIANCE WITH Z SPRING AND POSTERIOR BITE PLANE	
5	MAXILLARY APPLIANCE WITH EXPANSION SCREW	
6	MAXILLARY APPLIANCE WITH BEGG'S LABIAL BOW	
7	CATALAN'S APPLIANCE	
8	HABIT BREAKING APPLIANCE(FOR DIGIT SUCKING)	
9	HABIT BREAKING APPLIANCE(TONGUE CRIBS)	
10	BONDING OF BRACKETS FOR 2*4 appliance (on cast)	

## MYOFUNCTIONAL APPLIANCES

<u>S.No.</u>	<u>EXERCISE</u>	<u>SIGNATURE</u>
1	ORAL SCREEN	
2	TWIN BLOCK	

## **REMOVABLE AND FIXED SPACE MAINTAINERS**

<b><u>SL NO</u></b>	<b><u>EXERCISE</u></b>	<b><u>SIGNATURE</u></b>
1	BAND AND LOOP SPACE MAINTAINER	
2	TRANSPALATAL ARCH SPACE MAINTAINER	
3	NANCE PALATAL HOLDING ARCH	
4	NANCE PALATAL HOLDING ARCH WITH CANINE STOPPERS	
5	GERBER SPACE REGAINER	
6	DISTAL SHOE APPLIANCE	
7	LINGUAL ARCH	
8	UNILATERAL NON FUNCTIONAL SPACE MAINTAINER	
9	BILATERAL NON FUNCTIONAL SPACE MAINTAINER	
10	UNILATERAL FUNCTIONAL SPACE MAINTAINER	
11	BILATERAL FUNCTIONAL SPACE MAINTAINER	

## SPACE REGAINERS

<u>SL NO</u>	<u>EXERCISE</u>	<u>SIGNATURE</u>
1	HAWLEYS APPLAINCE WITH HELICAL SPACE REGAINER	
2	REMOVABLE APPLIANCE WITH SLINGSHOT SPACE REGAINER	
3	REMOVABLE APPLIANCE WITH DUMBELL SPACE REGANER	

## PRE- ORTHODONTIC EXERCISES

<u>SL NO</u>	<u>EXERCISE</u>	<u>SIGNATURE</u>
1	MODEL ANALYSIS (SPACE ANALYSIS )	
2	CEPHALOMETRIC ANALYSIS	
3	BASING EXERCISE	

## BASIC SOLDERING EXERCISES

<u>SL NO</u>	<u>EXERCISE</u>	<u>SIGNATURE</u>
1	LAMP POST	

<u>SL NO</u>	<u>EXERCISE</u>	<u>SIGNATURE</u>
1	<p style="text-align: center;"><b><u>FABRICATION OF SPLINTS</u></b></p> <p style="text-align: center;">a) ON MAXILLARY CAST</p> <p style="text-align: center;">b) ON MANDIBULAR CAST</p>	
2	SUTURING	
3	TYPE OF WIRING	

## TYPHODONT EXERCISE

<b><u>SL NO</u></b>	<b><u>EXERCISE</u></b>	<b><u>SIGNATURE</u></b>
<b>1</b>	<b>CLASS I</b>	
<b>2</b>	<b>CLASS II</b>	
<b>3</b>	<b>CLASS III (ON LATERAL INCISOR)</b>	
<b>4</b>	<b>CLASS V (ON ANY CANINE)</b>	
<b>5</b>	<b>STAINLESS STEEL CROWN (ON ANY E)</b>	
<b>6</b>	<b>CLASS I (ON ANY PERMANENT MOLAR FOR AMALGAM RESTORATION)</b>	
<b>7</b>	<b>CLASS II (ON TWO PERMANENT MOLAR FOR AMALGAM AND COMPOSITE RESTORATION)</b>	

## DRAWING OF SECTIONS AND SHAPES OF PULP

<u>SL NO</u>	<u>EXERCISE</u>	<u>SIGNATURE</u>
1	DECIDUOUS TEETH	
2	PERMANENT TEETH	

## EXERCISES ON EXTRACTED TEETH

<u>SL NO</u>	<u>EXERCISE</u>	<u>SIGNATURE</u>
1	SECTIONING	1) 2) 3) 4) 5)
2	COMPOSITE RESTORATION FOR ELLIS CLASS II FRACTURE	
3	ROOT CANAL TREATMENT  (ANT) (POST)	

<b>4</b>	<b>CROWN CUTTING (PORCELAIN FUSED TO METAL)</b>	
<b>5</b>	<b>LAMINATE CUTTING</b>	
<b>6</b>	<b>VENEER CUTTING</b>	
<b>7</b>	<b>PULPOTOMY (ON ANY DECIDUOUS MOLAR; maxillary and mandibular)</b>	
<b>8</b>	<b>PULPECTOMY (ON ANY DECIDUOUS MOLAR; maxillary and mandibular)</b>	
<b>9</b>	<b>STAINLESS STEEL CROWN CUTTING (ON ANY PERMANENT MOLAR)</b>	
<b>10</b>	<b>BANDING AND BONDING EXERCISE</b>	



