# PG Diploma in Dentistry

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SECTION-I

REGULATIONS FOR THE DIPLOMA COURSES

Eligibility

A candidate for admission to the Diploma Course must have a degree of BDS (Bachelor of Dental Surgery) from a College and University recognized by Dental Council of India or an equivalent qualification recognized by the Dental Council of India. Candidates not possessing a recognized Dental qualification for the above purpose should secure the prior approval of his qualifications by the Dental Council of India before he/she can be admitted to the Diploma courses in any of the Universities in India.

Duration of the Course:

The duration of the diploma courses in various specialities of dentistry shall be of two years duration which will be further divided into four semesters as under:-

First and Second semesters: Preclinical work and Applied Basic Sciences.

Third and Fourth Semesters: Clinical Work.

All the candidates for the Post Graduate Diploma are required to pursue the prescribed course for atleast two academic years as full time candidates in a BDS recognized and MDS approved/recognized Institution under the direction of the Head of the Department who has to be a recognized postgraduate teacher in that speciality.

Selection of students:

(1) Students for Post Graduate Diploma Courses shall be selected strictly on the basis of their academic merit.

(2) For determining the academic merit, the University / Institution may adopt any one of the following procedures for P.G. Diploma Courses.

   (i) On the basis of merit as determined by a competitive test conducted by the State Government or by the competent authority appointed by the State Government or by the University/group of Universities in the same state; or

   (ii) On the basis of merit as determined by a centralized competitive test held at the national level; or

   (iii) On the basis of the individual cumulative performance at the first, second, third and Final B.D.S. examinations, if such examinations have been passed from the same university; or

   (iv) Combination of (i) and (iii);
Staffing Pattern:

The Diploma courses shall be conducted only in postgraduate departments in a BDS recognized and MDS approved/recognized Institution by the Dental Council of India. For each seat of Post Graduate Diploma Course one additional Reader is required.

A department, which does not have the above staff pattern, shall not start a postgraduate diploma course in that speciality.

1. Examination:

Eligibility: The following requirements should be fulfilled by every candidate to become eligible to appear for the final examination.

Attendance: Every candidate should have fulfilled the minimum attendance prescribed by Dental Council of India and respective University (80% of the attendance during each academic year of the Diploma course)

Progress and conduct: Every candidate should have participated in seminars, journal review meetings, symposia, conferences, case presentations, clinics and didactic lectures during each year as designed by the concerned department.

Work diary and log book: Every candidate shall maintain a work diary and log book for recording his/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 and Head of the Institution. The certification of satisfactory progress is based on the work diary and log book.

2. University Examination:

There shall be one examination at the end of 2 years.

The Universities shall hold examinations twice a year with a minimum gap of four months between the two examinations. The university examination shall have the following components-

   a) Written
   b) Clinical or Practical
   c) Viva voce or oral examination

Written Examination:

The written examination shall consist of three papers, out of which two shall be pertaining to the speciality; one in Applied Basic Sciences. Each paper shall be of three hours duration and shall include recent advances.
Clinical / Practical Examination:

It should aim at examining clinical skills and competence of candidates for undertaking independent work as a Specialist. The actual format of clinical examination in various specialities could be worked out by various Universities making sure that the candidate is given ample opportunity to perform various clinical procedures. The council desires that the actual format is made known to the students prior to the examination well in advance by the respective Universities.

Viva voce Examination:

Viva voce examination shall aim at assessing depth of knowledge, logical reasoning, confidence and verbal communication skills.

The Council desires that only two examiners conduct the viva voce at a time as two teams, each team for 20 minutes. When one examiner is conducting the viva, the other examiner could make a note of the questions asked and the performance level to enable proper assessment and award of marks.

Distribution of Marks at the University Examination:

Theory:
- Paper-I 100 marks
- Paper-II 100 marks
- Paper-III 100 marks
Total 300 marks

Clinical Examination : 200 marks
Viva-voce : 100 marks

Examiners: There shall be at least three examiners in each subject. Out of them two shall be external examiners and one internal examiner. The qualification and teaching experience for appointment of an examiner shall be as laid down by the Dental Council of India and the respective University.

Valuation of answer Books: All the answer books shall be valued by all the three examiners and the average marks will be computed.

Criteria for declaring pass: A candidate is declared successful in the University Examination when he or she secure not less than 50% marks in each head of passing separately which shall include theory including viva voce and practical including clinical examination (i.e. 50% of the total marks allotted in each of the theory papers and viva voce and 50% of the total marks in the clinical examination) and 50% in aggregate. In other words, the candidate should secure 200 out of 400 marks (300 in theory and 100 for viva voce) and 100 out of 200 in practical examination. A candidate who secures less than this shall be declared to have failed in the examination. A candidate who failed and has secured less than 50% marks has to take the whole examination (namely theory, practical and oral examination).

A candidate who is declared successful in the Diploma Examination shall be granted a P.G. Diploma in the respective speciality by the University.
SECTION-II
GOALS & OBJECTIVES

The main objective of the Diploma course training is to produce a Specialist Clinician who at the conclusion of the training is to –

Goals:
- 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.
- To develop the faculty for critical analysis and evaluation of various concepts and views, to adopt the most rational approach.

Objectives

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 speciality practice. A candidate must achieve a high degree of clinical proficiency in the area of speciality.

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.
4. A candidate may be eligible for the post of Reader to teach undergraduate students in dentistry provided he/she is having five year teaching experience as Lecturer in a dental institution. Candidate will not be accepted beyond the post of Reader and no PG student will be registered under him/her.

Knowledge

- Demonstrate understanding of basic sciences relevant to speciality.
- 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.
- Recognise conditions that may be outside the area of speciality/competence and to refer them to an appropriate specialist.
- Update knowledge by self-study and by attending courses, conferences and seminars relevant to speciality.
- Undertake audit, use information technology and carry out research both basic and clinical with the aim of publishing or presenting the work at various scientific gatherings.
Skills

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

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 patients rights and privileges including patient’s right to information and right to seek a second opinion.

The following are the specialities of Diploma Courses:

i) Prosthodontics, Crown Bridge, Aesthetic Dentistry and Oral Implantology
ii) Periodontology and Oral Implantology
iii) Oral & Maxillofacial surgery and Oral Implantology
iv) Conservative, Endodontics & Aesthetic Dentistry
v) Orthodontics & Dento-facial Orthopedics
vi) Public Health Dentistry
vii) Paedodontics & Preventive Dentistry
viii) Oral Medicine & Radiology
SECTION – III

BOOKS RECOMMENDED & REFERENCE: (Later Edition as and when Published)

PROSTHODONTICS, CROWN BRIDGE, AESTHETIC DENTISTRY AND ORAL IMPLANTOLOGY

1. Hand book of immediate over dentures by Robert
2. Over denture by Allen
3. Occlusal correction principles and practice by John
4. Immediate and replacement dentures by Albert
5. A color atlas of complete denture fabrication by Muraoka
6. Dental laboratory procedures removable partial dentures by Rudd
7. Finishing and polishing, the frame work by Rudd
8. Management of endodontically treated teeth by Shillingburg
9. Contemporary fixed prosthodontics by Stephen Rosenstiel
10. Precision attachments by Gareth
11. A color atlas of ceramo-metal technology by Kuwata
12. Esthetics of anterior fixed prosthodontics by Gerald
13. Contemporary implant dentistry by Misch
15. Dental Implants color atlas fundamentals and Advance laboratory technology by Robert.
16. Maxillofacial rehabilitation (Prosthodontic and surgical consideration) by John Buemer III
17. Evaluation, Diagnosis and treatment of Occlusal problems by Peter Dawson
19. Dental materials properties & Manifestations by William O. Brien
20. Prosthodontics treatment for edentulous patient by Boucher
21. Syllabus of complete denture by Heartwell
22. Dental secrets by Stephen
23. Inlays crown & bridges by Krantirowich
24. Advanced Restorative Dentistry by Bacom
25. Oral Implantology by Andre
26. Prosthetic rehabilitation by Keith Thomas
27. Implants in Dentistry by Michael. B Block
28. Occlusion principles and concepts by Jose Dos Santos JR
29. Fixed and removable prosthodontics by Bardy
30. Sectional Dentures-A clinical and treatment manual by Pullen
31. Laboratory procedures for full and partial dentures by Derek Stannought
32. Laboratory procedures for Inlays, crown and Bridges by Derek Stannought
33. The science and art of dental ceramic vol.I & II by John McLean
34. Mastering the art of complete dentures by Alexander
35. Oral Rehabilitation & clinical determination of occlusion by Hobo
36. Dental Laboratory procedures in complete dentures- vol.I & II by Robert John
37. Precision fixed prosthodontics-clinical & laboratory aspects by Martignoni
38. Endosteal Dental Implant by Ralph Mackenny
39. Metal ceramic crown and fixed partial dentures by Caloin
40. Fixed bridge prosthetics by Roberts
41. Color atlas of removable partial dentures by J.C. Devenport
42. Essential of –Clinical dental assisting by Joseph
43. Fundamentals of – removable partial dentures by Owen
44. Modern dental assisting by Torres
45. Over dentures made easily by Harold
46. Designing partial dentures by David
47. Laboratory manual for fixed partial dentures by Douglas
48. Oral Rehabilitation by Sumiya
49. Advanced removable partial dentures by James Brudvik
50. Porcelain and composite Inlays and On lays by Graber and Goldstein
51. Implant therapy by Myron
52. Adhesive metal free restorations by Dietschi and Spreatifico
53. Guided bone regeneration-in implant dentistry by Daniel Buser
54. Impressions for complete denture by Bernard Levin
55. Esthetic dentistry and ceramic restorations by Bernard Tauti
56. Preservation and restoration of tooth structures by Graham J Mount
57. Dental implants by Winkelman
58. Partial Dentures by Singer
59. Ceramo metal fixed partial denture by George
60. Esthetic Dentistry-ceramic restorations by Toralic
61. Esthetic in Dentistry by Goldstein

PERIODONTOLOGY AND ORAL IMPLANTOLOGY

1. Textbook of clinical periodontology and implant dentistry, by Janlinde, Nicklans Lang and Thorklid K.
2. The periodontium by Schroeder
3. Periodontal Ligament by Berkovitz
4. Contemporary Periodontics by Geneo R.J. and Cohen S.
5. Periodontics by Grant, Stern and Listgarten
6. Periodontal regeneration-current concepts further directions by Aban Polson
7. Periodontal Instrumenarium by Gill and Ginger
8. Periodontitis in man and other animals by Page and Schroeder
9. Crevicular fluid updated by Cimason
12. Advances in periodontics by Wilson and Karmman

ORAL & MAXILLOFACIAL SURGERY AND ORAL IMPLANTOLOGY

2. Rowe and Williams Maxillofacial injuries Vol. 1 & 2; Williams Jled
3. Handbook of Medical emergencies in the dental office; Malamed S.F.
4. Plastic surgery; Vol. 1-5; McCarthy JG.
5. Cancer of the face and mouth; McGregor IA & Mc
6. Oral & Maxillofacial Surgery Vol. 1 & 2; Laskin DM
7. Oral & Maxillofacial Surgery Vol. 1 & 2; Fonseca RJ & Davis
8. Oral & Maxillofacial infections; Topazian RG & Goldberg MH
9. Surgical correction of dentofacial deformities Vol 1,2 & 3; Bell WH & etal
10. Surgery of the mouth and jaws; Moore JR
11. Dentofacial deformities:integrated orthodontic and surgical correction; Vol 1 to 4; Epker BN & Fish LC
12. Maxillofacial Surgery; Peter Wardbooth
CONSERVATIVE ENDODONTICS & AESTHETIC DENTISTRY

1. Fractures of the teeth, prevention and treatment of the vital and non-vital pulp by Basrani
2. Textbook of operative dentistry by Baum
3. Dentin and pulp in restorative dentistry by Brannstorm
4. Principles and practice of operative dentistry by Charbeneau
5. Operative dentistry by Gilmore
6. Esthetic composite bonding by Jordan
7. Operative dentistry: modern theory and practice by Marzouk
8. Art, science and practice of operative dentistry by Sturdevant
10. New concepts in operative dentistry by Fusiyama
11. Handbook of clinical Endodontics by Bence
12. Pathways of the pulp by Cohen & Burns
13. Bleaching teeth by Feinman
14. Endodontic practice by Grossman
15. Problem solving in Endodontics, Prevention, identification and management by Gutmann
16. Endodontics in clinical practice by Harty
17. Endodontics by Ingle & Taintor
18. Endodontics-science and practice by Schroeder
19. Endodontology – biologic considerations in Endodontic procedures by Seltzer
20. Restoration of the endodontically treated tooth by Schillingberg & Kessler
21. Principles and practice of Endodontics by Walton & Torabinejad
22. Endodontic therapy by Weine
23. Colour atlas of Endodontics by Messing & Stock
24. The dental pulp by Seltzer & Bender
25. Experimental Endodontics by Spangberg
26. Cariology by Newbrun
27. Silver amalgam in clinical practice by Gainsford
28. Glass Ionomer cement by Wilson & McClean
29. Pediatric operative dentistry by Kenedy
30. Fluorides in caries prevention by Murroy & Rugg-Geenn
31. Color atlas and text of Endodontics by Stock

Reference:
1. Why root canal therapy? By Berns
2. Contemporary esthetic dentistry-practice fundamentals by Crispin
3. Enamel micro abrasion by Croll
4. Advances in Glass Ionomers by Davidson
5. Complete dental bleaching by Goldstein
6. Fiber reinforced composite in clinical dentistry by Freilich
7. Dental ceramics by Mclean
8. LASERS IN DENTISTRY BY Miserendind
9. Esthetic approach to metal ceramic restorations by Muterthies
10. Life and times of G.V. Black by Pappas
11. Bonded ceramic inlays by Roulat
12. Fundamentals of tooth preparation by Schillingburg
13. Esthetics with indirect restorations by Stein
14. Surgical Endodontics by Barnes
15. Operative dentistry by Marzouk
16. Inlays, crowns and bridges by G.F. Kantorowicz
ORTHODONTICS & DENTO-FACIAL ORTHOPAEDICS

1. Contemporary Orthodontics-W.Proffit
2. Orthodontics-current principles & techniques-Graber & Vanarsdall
3. Orthodontic Cephalometry-Athenasiou
5. Facial Growth-D. Enlow
6. Dentofacial Orthopedics with Functional Appliances-Graber, Petrovic & Rakosi
7. Orthodontic treatment with Removable appliances-Issacsion & M. Houston
8. Mixed dentition treatment – James Mc’ Namara

PUBLIC HEALTH DENTISTRY

1. Dentistry, dental practice and community by Striffler DF
2. Primary preventive dentistry by Harris N & Christen AG
3. Community dental health by Jong AW
4. Principles of Dental Public health Vol. 1 part 1 & 2 by Dunning JM
5. Dental public health: an introduction to community dentistry by Slack G.I.
6. Fluoride in dentistry by Fejerskar Ok & Etal Ed
7. Fluorides & dental caries by Tiwari A
8. Text book of preventive and social medicine by Mahajan BK & Gupta Mc
9. Dental health education by Who Expert Committee
10. Metabolism and toxicity of fluoride vol 1 by Whitford GM
11. Epidemiology bio-statistics and preventive medicine by Jekel JF & Etal
12. Introduction to oral preventive medicine: a programme for the first clinical experience by Muhlemann HR
13. Text book of preventive medicine by Stallard CE
14. Handbook of dental jurisprudence and risk management by Pollack BR ED
15. Fluorides and human health by World Health Organisation
16. Appropriate use of fluorides for human health by Murry JJ ED
17. Community health by Green LW
18. Prevention of dental diseases by Murry JJ ED
19. Color atlas of forensic dentistry by Whittaker DK & DAC Donald DG
20. Health research design and methodology by Okolo EN
22. Guidelines for drinking water quality vol 1 recommendations by WHO
23. Introduction to Bio-statistics by Mahajan B.K.
24. Guidelines for drinking water quality vol. 2 health criterial & other supporting information by WHO
25. Dentistry, dental practice and the community by Burt BA & Et Al
26. Occupational hazards to dental staff by Scully C
27. Forensic dentistry by Cameron JM
28. Research methodology: methods & techniques Kothari R
29. Law & ethics in dentistry by Shear J & Walters L
30. Health research methodology: a guide for training in research methods (western pacific education in action series no. 5) by WHO
31. Community oral health by Pine CM
32. Park’s text book of preventive and social medicine by Park K
33. Epidemiology, bio-statistics and preventive medicine by Katz DI
34. Oral health surveys basic methods by WHO
35. Essentials of preventive and community dentistry by Peter S
36. Fluorides in caries prevention by Murry JI ED
37. Preventive dentistry by Forrest John O
38. Fluorine and fluorides: a report by World Health Organization
39. Planning and evaluation of public dental health services: a technical report by World Health organization
41. Community periodontal index of treatment needs development, field testing and statistical evaluation by World Health Organization.
42. Planning oral health services by World Health Organization
43. Guide to epidemiology and diagnosis of oral mucosal diseases and conditions by World Health Organization.
44. Community dentistry (pg hand book series vol 8 by Silberman SI & Tryon AF. ED.
PEDODONTICS & PREVENTIVE DENTISTRY

1. Pediatric Dentistry (Infancy through Adolescences)-Pinkham
2. Kennedy’s Pediatric Operative Dentistry – Kennedy & Curzon
5. Pediatric Oral & Maxillofacial Surgery – Kaban
7. Understanding of Dental Caries-Niki Foruk
8. An atlas of Glass Ionomer cements – G.J. Mount
9. Clinical Pedodontics - Finn
10. Text book of Pediatric Dentistry – Braham Morris
11. Primary Preventive Dentistry – Norman O. Harris
13. Preventive Dentistry-Forrester.
14. The Metabolism and Toxicity of Fluoride – Garry M. Whitford
15. Dentistry for the Child and Adolescence-Mc. Donald
16. Pediatric Dentistry – Damle S.G.
17. Behaviour management –Wright
18. Pediatric Dentistry – Mathewson
19. Traumatic Injuries-Andreason
20. Occlusal guidance in Pediatric Dentistry – Nakata
21. Pediatric Drug Therapy-Tomare
22. Contemporary Orthodontics – Profitt
23. Endodontic Practice – Grossman
24. Endodontics – Ingle
25. Pathways of Pulp – Cohen
26. Management of Traumatized anterior teeth – Hargreaves
27. Essentials of Community & Preventive Dentistry – Soben Peters
28. Post graduate hand book - Barber
29. Scientific foundation of Pediatric Dentistry - Stewart and Barber
30. Diet and Nutrition in Dentistry - Rutgunn
31. Preventive Dentistry - Murray

ORAL MEDICINE AND RADIOLOGY

a) Oral Diagnosis, Oral medicine & Oral Pathology

2. Coleman-Principles of Oral Diagnosis-Mosby Year Book
7. Pindburg-Syndromes of the Head & Neck
8. Stones-Oral Diseases
9. Irwin Walter Scopp-Oral Medicine
10. Kerr-Oral Diagnosis
11. Miller-Oral Diagnosis & Treatment
12. Bennier-Differential Diagnosis & Oral Lesions
13. Munford-Orofacial Pain
14. Bell-Oral facial pain
15. Tullmen-Systemic diseases in Dental Treatment
16. Mean-Diseases of the Mouth
17. Hutchinson-clinical methods
18. McCleods-Clinical Examination
19. Chamberlin-Symptoms & Signs of Clinical Medicine
20. Davidson-Principles and Practice of Medicine
21. Harrison-Principles of Internals Medicine
22. Schweitner-Oral Rehabilitation problem cases
23. Burkhardt-Oral Cancer
24. Dolby-Oral Mucosa in Health & Diseases

b) Oral Radiology

2. Wuehrmann – Dental Radiology – C.V. Mosby Company
4. Langlais – Diagnostic Imaging of the Jaws- William & Wilkins
5. Smith-Dental Radiography-Blackwell Scientific Publication
8. Malamed S.F. – Book of Medical Emergencies in the Dental Office
9. Cawson R.A. and Scully C.M. – Medical Problems in Dentistry
11. Linch M.A. – ET’S Oral Medicine, Diagnosis and Treatment

c) Forensic Odontology

1. Derek H. Clark – Practical Forensic Odontology – Wright
2. Cottone Standish-Outline of Forensic Dentistry
3. Whittaker – A colour atlas of Forensic Dentistry

JOURNALS:

The journals are best source of information for professionals to keep abreast with the recent developments and trends in their respective specialities. Considering the array of journals that are available today the council desires that the institutions provide as a minimum requirement the list of journals mentioned below:

Pertaining to Dental education and practice

1. Journal of Indian Dental Association
2. British Dental Journal
3. Journal of American Dental Association
4. Journal of Dentistry
5. Dental Clinics of North America  
6. Journal of Dental Education  
7. Dental Abstracts  
8. Journal of Dental Research  
9. Dental Index  
10. Quintessence International  
11. International Dental Journal  
12. Australian Dental Journal  
13. Journal of Dental Materials  
14. Journals of aesthetic dentistry  
15. Journal of cleft palate  
16. Indian Journal of Dental Research  

**PROSTHODONTICS CROWN BRIDGE AND ORAL IMPLANTOLOGY**

1. International Journal of Oral & Maxillofacial Implants  
2. International Journal of Prosthodontics  
3. Journal of Dental Materials  
4. Journal of Geriatric Dentistry  
5. Journal of Prosthetic Dentistry  
6. Journal of Prosthodontics  
8. Journal of Clinical Periodontology  
10. Dental Technician  
11. Journal of Endodontics  
12. European Journal of Prosthetics & Restorative Dentistry  
13. The Journal of Adhesive Dentistry  

**PERIODONTOLOGY AND ORAL IMPLANTOLOGY**

1. Journal of Periodontology  
2. Journal of clinical Periodontology  
3. Journal of Periodontal Research  
4. International journal of Periodontics  
5. Journal of Indian Society of Periodontics  
6. Journal of oral and maxillofacial implants  
7. Periodontology 2000  
8. Annals of Periodontology  

**ORAL & MAXILLOFACIAL SURGERY AND ORAL IMPLANTOLOGY**

3. Journal of Cranio Maxillofacial Surgery  
5. Oral Surgery, Oral Medicine, Oral Pathology  
6. Oral & Maxillofacial clinics of North America  
7. Journal of oro-facial pain  
10. Plastic & Reconstructive Surgery
11. Cancer

CONSERVATIVE ENDODONTICS & AESTHETIC DENTISTRY

1. Endodontics & Dental Traumatology
2. International Endodontic Journal
3. Operative Dentistry
4. Esthetic Dentistry
5. Endodontology
6. Dental Materials
7. Oral Surgery, Oral Medicine, Oral Pathology
8. Oral Radiology & Endodontics
10. International Journal of Prosthetic Dentistry
11. Periodontics & Restorative Dentistry
12. Index to Dental Literature

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

1. American Journal of Orthodontics and Dentofacial Orthopedics
2. Angle Orthodontist
3. Journal of Clinical Orthodontics
5. Journal of Indian Orthodontics Society

PUBLIC HEALTH DENTISTRY

1. Journal of Community Dentistry and Oral Epidemiology
2. Journal of Public Health Dentistry
3. Fluoride Journal of International Society
4. Journal of Community Dental Health
5. Journal of Fluoride research
6. Journal of clinical preventive dentistry

PEDODONTICS & PREVENTIVE DENTISTRY

1. ASDC Journal of Dentistry for Children
2. International Journal of Pediatric Dentistry
3. Pediatric Dentistry
4. Journal of Indian Society of Pedodontics & Preventive Dentistry

ORAL MEDICINE AND RADIOLOGY

2. Journal of Oral Diseases
3. Journal of Oral Pathology / Medicine
4. Journal of Community Dentistry & Oral Epidemiology
5. Journal of Indian Academy of Oral Medicine and Radiology
6. Journal of Indian association of Oral Pathology
SECTION-IV

SYLLABUS

1. PROSTHODONTICS CROWN BRIDGE AND ORAL IMPLANTOLOGY

First and Second semesters:

A: Applied basic sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Microbiology and Virology.

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers. To develop necessary teaching skills in Prosthodontics including crown and bridge and implantology.

B: Preclinical work

a) Pre-clinical induction to laboratory technology. Basic tooth reduction of ivorine teeth for various designs of Kennedy classification.

b) Surveying of dental models and planning of removable partials.

c) Fabrication of custom trays for elastomeric impression materials.

d) Reduction of teeth for various fixed restoration viz. Complete veneer crowns, partial veneer crowns, radicular crowns.

e) Casting of metal framework and various metal crowns.

f) Manipulation of dental ceramic material.

Third and fourth semesters:

A: Clinical Work

a) Treatment of patients with missing teeth

b) Impression procedures

c) Interocclusal records

d) Jaw relation record

e) Choice of jaw simulator device

f) Rationale of treatment design

g) Insertion of prosthesis

B: Presentation of clinical cases for different removable and fixed treatment

C: Presentation of at least six seminars and six journal clubs on given topics in two years.
D: Internal assessment examinations three months before university examinations

Mandatory clinical work
Ceramics-laminates, inlays, onlays -0.05
FVC for metal -0.05
FVC for ceramic -0.05
Precious metal crown -0.01
Telescopic crowns -0.02
Crown as implant supported prosthesis -0.01
Cast Porcelain (three unit) -0.02
Cast metal (three unit) -0.02
Porcelain fused metal (anterior and posterior) -0.05
Multiple abutment (maxillary and mandibular full arch) -0.02
Interim provisional restorations (crowns & FPDs) -0.05
Provisional partial denture prosthesis -0.05
Cast removable partial denture (for Kennedy’s applegate classification with modification) -0.02
Immediate RPD -0.02
Partial denture for medically compromised and handicapped patients -0.01
Single dentures -0.02
Overlay dentures -0.02
Complete denture prosthesis (for abnormal ridge relation, ridge form and ridge size) -0.02
Complete dentures for medically compromised & handicapped patients -0.02
Tooth and tooth surface restoration, crowns, fixed prosthesis, removable prosthesis for geriatric patients -0.02
Full mouth rehabilitation – restoration of esthetics and function of stomatognathic system -0.01
Management of failed restoration removable prosthesis -0.05
Crowns and fixed prosthesis -0.02
Restoration failure due to age changes -0.01

ORAL IMPLANTOLOGY

First and Second Semesters:
A: Applied basic Sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers.

B: Material Sciences
Concept of biological compatibility of materials
Metal selection and surface characteristics
Hydroxyapatite and other bone substitutes
Metallurgy
Ceramics & other veneering materials.

C: Osseointegration

Introduction to osseointegration
Nature of implant attachments
Bone tissue responses
Functional response to implants
Design of implant systems

D: Special emphasis on

Control of hemorrhage
Suturing techniques
Post operative management
Prevention and management of complications
Surgical aspects of placement of intraoral fixtures
Extra oral fixtures
Clinical biomechanics
Temporary prosthesis
Prosthetic considerations for second stage surgery
Screw retained prosthesis
Occlusal considerations for implant-supported prosthesis
Impression procedure
Jaw relations
Temporary try-in
Fabrication of supra structure
Insertion of prosthesis
Maintenance of dental implants

Third and fourth semesters

A: Clinical Work
Patient selection and preparation (surgical, prosthetic and periodontal considerations) – 05 cases
Mucoperiosteal flaps – 05
Temporary prosthesis – 02
Screw retained prosthesis – 02
Fabrication of supra structure – 02
Single unit implant – 02
Multiple unit implant – 01

B: Presentation of clinical cases

C: Presentation of at least six seminars and six journal clubs on given topics in two years
D: Internal assessment examinations three months before university examinations

2. PERIODONTOLOGY & ORAL IMPLANTOLOGY

First and second semesters:

A: Applied basic sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers.

Third and fourth semesters:

A: Clinical work

Complete case history and treatment planning – 05 cases
Applied periodontal indices – 05 cases
Scaling – hand – 10 cases
- ultrasonic – 10 cases
Root planing – 10 cases
Curettage – 05 cases
Gingivectomy – 10 cases
Gingivoplasty – 05 cases
Local drug delivery techniques
Pocket therapy
Muco-gingival surgeries
Implants – 02
Management of perio-endo problems – 03 cases
Occlusal adjustments – 05 cases
Perio splints – 05 cases
Guided tissue regeneration cases – 05
Treatment of at least five full mouth periodontally involved cases

B: Presentation of treated clinical cases

C: Presentation of at least six seminars and six journal clubs on given topics in two years

D: Internal assessment examinations three months before university examinations

ORAL IMPLANTOLOGY
First and second semesters:

A: Applied basic sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesis, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers.

B: Material Sciences

Concept of biological compatibility of materials
Metal selection and surface characteristics
Hydroxyapatite and other bone substitutes
Metallurgy
Ceramics & other veneering materials.

C: Osseointegration

Introduction to osseointegration
Nature of implant attachments
Bone tissue responses
Functional response to implants
Design of implant systems

D: Special emphasis on

Control of hemorrhage
Suturing techniques
Post operative management
Prevention and management of complications
Surgical aspects of placement of intraoral fixtures
Extra oral fixtures
Clinical biomechanics
Temporary prosthesis
Prosthetic considerations for second stage surgery
Screw retained prosthesis
Occlusal considerations for implant-supported prosthesis
Impression procedure
Jaw relations
Temporary try-in
Fabrication of supra structure
Insertion of prosthesis
Maintenance of dental implants
Third and fourth semesters

A: Clinical Work

Patient selection and preparation (surgical, prosthetic and periodontal considerations) – 05 cases
Mucoperiosteal flaps – 05
Temporary prosthesis – 02
Screw retained prosthesis – 02
Fabrication of supra structure – 02
Single unit implant – 02
Multiple unit implant – 01

B: Presentation of clinical cases

C: Presentation of at least six seminars and six journal clubs on given topics in two years

D: Internal assessment examinations three months before university examinations

3. ORAL & MAXILLOFACIAL SURGERY & ORAL IMPLANTOLOGY

First and second semesters:

A: Applied basic sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Immunology, Microbiology and Virology.

Pharmacology with special emphasis on drugs used in oral and maxillofacial surgery, Health and Systematic diseases, Principles in Surgery, Medicine and Anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental Material Science, Congenital defects and Syndromes and Anthropology, Biomaterial Sciences, Bio-engineering and Biomedical and Research methodology.


General outline of TMJ diseases and orthognathic cases

An adequate knowledge in biostatistics, research methodology and use of computers.

Third and fourth semesters:

A: Clinical Work

Injection IM and IV – 25, 10
Incision and drainage of an abscess – 05
Surgical extraction – 10
Pre prosthetic surgery – 10
OAF closure – 03
Cyst enucleation – 05
Periapical surgery – 10
Removal of salivary calculi – 02
Mandibular fractures – 06
Mid facial fractures – 03
Benign Surgery – 03
Orthognathic surgery – 02
Harvesting bone & cartilage grafts – 03
TMJ surgery – 01
Jaw resections – 02 (Assisted)
Onco surgery – 02 (assisted)
Cleft lip and palate – 06

B: Presentation of treated clinical cases

C: Presentation of at least six seminars and six journal clubs on given topics in two years

D: Internal assessment examination three months before university examinations.

ORAL IMPLANTOLOGY

First and second semesters:

A: Applied basic sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers.

B: Material Sciences

Concept of biological compatibility of materials
Metal selection and surface characteristics
Hydroxyapatite and other bone substitutes
Metallurgy
Ceramics & other veneering materials.

C: Osseointegration

Introduction to osseointegration
Nature of implant attachments
Bone tissue responses
Functional response to implants
Design of implant systems
D: Special emphasis on

Control of hemorrhage  
Suturing techniques  
Post operative management  
Prevention and management of complications  
Surgical aspects of placement of intraoral fixtures  
Extra oral fixtures  
Clinical biomechanics  
Temporary prosthesis  
Prosthetic considerations for second stage surgery  
Screw retained prosthesis  
Occlusal considerations for implant-supported prosthesis  
Impression procedures  
Jaw relations  
Temporary try-in  
Fabrication of supra structure  
Insertion of prosthesis  
Maintenance of dental implants

Third and fourth semesters

A: Clinical Work

Patient selection and preparation (surgical, prosthetic and periodontal considerations) – 05 cases  
Mucoperiosteal flaps – 05  
Temporary prosthesis – 02  
Screw retained prosthesis – 02  
Fabrication of supra structure – 02  
Single unit implant – 02  
Multiple unit implant – 01

B: Presentation of clinical cases

C: Presentation of at least six seminars and six journal clubs on given topics in two years

D: Internal assessment examinations three months before university examinations

4. CONSERVATIVE, ENDODONTICS & AESTHETIC DENTISTRY

First and second semesters:

A: Applied basic sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Immunology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital
defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers.

**B: Dental Materials**

a) Impression materials used in dentistry including duplicating materials  
b) Synthetic resins used in dentistry  
c) Metals and alloys-structure and behaviour including important physical properties  
d) Dental cements-classifications, composition, manipulation, properties and uses  
e) Dental porcelain including porcelain fused to metal. Porcelain furnace and fusing.  
f) Composite and porcelain polishing  
g) Biological aspects of restorative materials

**C: Radiology- technique of intra oral and extra oral radiography and normal anatomical landmarks**

**D: Dental material science and armamentarium relevant to conservative (operative) dentistry & Endodontics**

**E: Pre-clinical work**

Cavity preparation for various types of restorations including inlays, onlays etc. matrices

Various endodontic and restorative exercises to be done on extracted teeth.

**Third and fourth semesters:**

**A: Clinical work**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composite restorations</td>
<td>15</td>
</tr>
<tr>
<td>GIC restorations</td>
<td>15</td>
</tr>
<tr>
<td>Complex amalgam restorations</td>
<td>02</td>
</tr>
<tr>
<td>Composite inlay and veneers</td>
<td>02</td>
</tr>
<tr>
<td>Ceramic jacket crowns</td>
<td>02</td>
</tr>
<tr>
<td>Post and core for anterior teeth</td>
<td>06</td>
</tr>
<tr>
<td>Post and core for posterior teeth</td>
<td>06</td>
</tr>
<tr>
<td>Cast gold inlay</td>
<td>02</td>
</tr>
<tr>
<td>Bleaching vital</td>
<td>02</td>
</tr>
<tr>
<td>Bleaching non vital</td>
<td>02</td>
</tr>
<tr>
<td>RCT anterior</td>
<td>20</td>
</tr>
<tr>
<td>RCT posterior</td>
<td>20</td>
</tr>
<tr>
<td>Endo surgery</td>
<td>02</td>
</tr>
<tr>
<td>Management of endo perio problems</td>
<td>02</td>
</tr>
</tbody>
</table>

**B: Presentation of treated clinical cases**

**C: Presentation of at least six seminars and six journal clubs on given topics in two years**
D: Internal assessment examinations three months before university examinations

AESTHETIC DENTISTRY

First and second semesters:

A: Applied basic sciences

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers.

B: Oral Anatomy, Physiology, Histology and embryology

Active and passive eruption of teeth and shedding of primary teeth
Differences between primary and permanent teeth
Chemical composition & physical properties of enamel, dentine, cementum and bone
Identification of teeth
Carvings of permanent teeth including drawing in journal
Introduction to aesthetics
Structural aesthetic rule
Aesthetics and relationship to function

C: Preclinical Work

Dental Materials

a) Impression materials used in dentistry including duplicating materials
b) Synthetic resins used in dentistry
c) Metals and alloys-structure and behaviour including important physical properties
d) Dental cements-classifications, composition, manipulation, properties and uses
e) Dental porcelain including porcelain fused to metal. Porcelain furnace and fusing.
f) Composite and porcelain polishing

Third and fourth semesters:

A: Clinical work

a) Aesthetic management of the dentogingival unit
b) Gingival recessions
c) Mastering the art of tissue management
d) Metal ceramic frame work design
e) Porcelain veneers: an aesthetic therapeutic alternative
f) Radiology: technique of intra-oral and extra-oral radiography and normal anatomic landmarks
B. Presentation of clinical cases for different aesthetic requirements

C: Presentation of at least six seminars and six journal clubs and given topics in two years

D: Internal assessment examinations three months before University examinations.

5. ORTHODONTICS & DENTOFACIAL ORTHOPEDICS

First and second semesters:

A: Applied basic sciences with relevance to orthodontics

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Immunology, Microbiology and Virology Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics research methodology and use of computers.

B: Basic Orthodontic subjects

Facial growth
Normal and abnormal development of the dentition
Tooth movements and facial orthopedics
Radiology and other imaging techniques
Cephalometric
Orthodontic materials
Orthodontic biomechanics

C: General Orthodontic subjects

Aetiology of malocclusion
Diagnostic procedures
Diagnostic assessment, treatment objectives and treatment planning
Growth and treatment analysis
Long term effect of orthodontic treatment
Iatrogenic effects of orthodontic treatment
Epidermiology of orthodontics

D: Orthodontic techniques

Removable appliances
Functional appliances
Extra-oral appliances
Fixed appliances
Retention appliances
E: Pre-clinical exercises

Basic wire bending exercises
Active and passive components of removable appliances
Soldering exercises
Study model preparations
Appliance fabrication
Cephalometric tracings and analysis
Basic skill in clinical photography
Fixed appliance exercise

Third and fourth semesters

A: Clinical work

Treatment of patients with various types of malocclusions utilizing different orthodontic techniques with both removable and fixed appliances.

Each student to start with a minimum of 25 new cases and a minimum of 10 transferred cases

B: Presentation of at least three treated clinical cases

C: Presentation of at least six seminars and six journal clubs on given topics in two years

D: Internal assessment examinations three months before university examinations

6. PUBLIC HEALTH DENTISTRY & PREVENTIVE DENTISTRY

All the semesters will include time devoted towards but not limited to understanding and learning to implement public health concepts and philosophies and dental public health in specific. Some important topics would be epidemiology, survey procedures, oral biology and genetics, evaluation of quality of dental care, preventive dentistry, research methodology and dental statistics etc.

7. PEDODONTICS & PREVENTIVE DENTISTRY

First and Second semesters:

A: Applied basic sciences with relevance to Pedodontics

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Immunology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics, research methodology and use of computers.
B: Pre-clinical exercises, including but not limited to basic wire bending exercises, wax carvings of deciduous teeth, restorative and endodontic exercises on extracted teeth - Primary/Permanent selected teeth

<table>
<thead>
<tr>
<th>Primary/Permanent selected teeth</th>
<th>ACDE</th>
<th>DE</th>
<th>1 6</th>
</tr>
</thead>
</table>

C: Special emphasis on:

- Child development
- Behaviour management
- Pediatric dental practice
- Preventive and interceptive orthodontics
- Nutrition and child dental health
- Preventive Dentistry

Third and fourth semesters:

A: Clinical work

Clinical training including postings in pediatric medicine and surgery, oral surgery and orthodontics.

- Special cases with complete records: 10
- Preventive dentistry cases: 05 (including diet counseling, Pit & Fissure sealants, Fluoride application)
- Stainless steel crowns: 20
- Pulp therapy cases: 75 (preferable)
- Space maintainers: 20 (10 fixed and 10 removable) including Habit Breaker

B: Presentation of treated clinical cases: 3

C: Presentation of at least six seminars and six journal clubs on given topics in two years

D: Internal assessment examinations three months before university examinations

8. ORAL MEDICINE AND RADIOLOGY

First and Second semesters:

A: Applied basic sciences with relevant to Oral Medicine & Radiology

A thorough knowledge of the applied aspects of Anatomy, Embryology, Histology specific to head and neck, Physiology, Biochemistry, Pathology, Immunology, Microbiology and Virology

Pharmacology, Health and Systemic Diseases, Principles in Surgery, Medicine and anesthesia, Nutrition, Behavioral Sciences, Age changes, Genetics, Dental material Science, Congenital defects and Syndromes and Anthropology, Biomaterial sciences, Bio-engineering and Biomedical and Research methodology.

An adequate knowledge in biostatistics research methodology and use of computers.

B: Special emphasis on:
Methods of clinical diagnosis of Oral and Systemic diseases including modern diagnostic
techniques.
Laboratory investigations
Oral manifestations of systemic diseases
Oro facial pain
Psychosomatic aspects of oral diseases
Congenital and hereditary disorders involving tissues of oro-facial region

C: Oral & Maxillofacial radiology:

Basics of radiology
Biological effects of radiology
Various techniques in oral and maxillofacial radiology including advances

Third and fourth semesters:

A: Clinical training
Clinical training including postings in general medicine

B: Presentation of special clinical cases observed and diagnosed with details like biopsies conducted etc.

Case histories – 50
Special cases – 10
Intra Oral periapical radiographs – 50
Bitewing radiographs – 25
Occlusal view – 25
Extra oral radiographs of different views – 40

C: Presentation of at least six seminars and six journal clubs on given topics in two years

D: Internal assessment examinations three months before university examinations

9. ETHICS (20 hrs. of instruction)

Introduction:
There is a definite shift now from the traditional patient and doctor relationship and delivery of
dental care. With advances in science and technology and the increasing needs of the patient,
their families and community, there is a concern for the health of the community as a whole.
There is a shift to greater accountability to the society. Dental specialists like other health
professionals are confronted with many ethical problems. It is therefore absolutely necessary for
each and every one in health care delivery to prepare themselves to deal with these problems.
To accomplish this and develop human values the Council desires that all the trainees undergo
ethical sensitization by lectures or discussion on ethical issues, discussion of cases with an
important ethical component.
Course Content:

Introduction to ethics-
- What is ethics?
- What are values and norms
- How to form a value system in one’s personal and professional life
- Hippocratic oath

Ethics of the individual-

The patient as a person.
Right to be respected
Truth and confidentiality
Autonomy of decision
Doctor Patient relationship

Professional Ethics-

Code of conduct
Contract and confidentiality
Charging of fees, fee splitting
Prescription of drugs
Over-investigating the patient
Malpractice and negligence

Research Ethics-

Animal and experimental research/humanness
Human experimentation
Human volunteer research-informed consent
Drug trials
Ethical workshop of cases
Gathering all scientific factors
Gathering all value factors
Identifying areas of value – conflict, setting of priorities
Working our criteria towards decisions

Recommended Reading:

Medical Ethics, Francis C.M., I Ed. 1993, Jaypee Brothers, New Delhi P. 189.