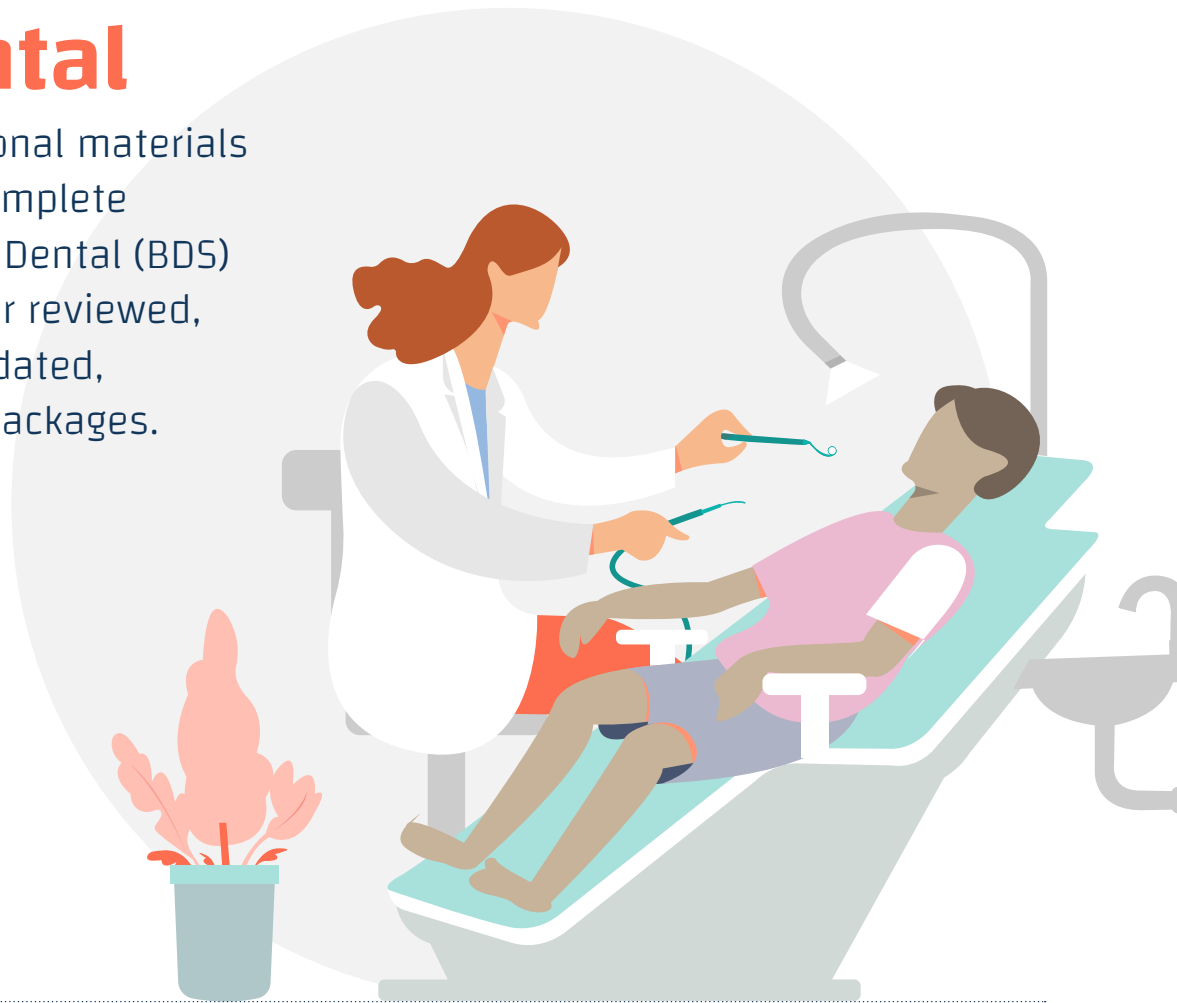


# UG Dental

Digital educational materials covering the complete undergraduate Dental (BDS) curriculum. Peer reviewed, periodically updated, customizable packages.



Effective self-directed learning, faculty assistance in online / classroom instruction / intense practical orientation



**Clinical Exposure and Chairside Procedures:** AV sessions and notes covering basic procedures and common cases. Also patient examination routines and diagnostics, reports & interpretations, etc.

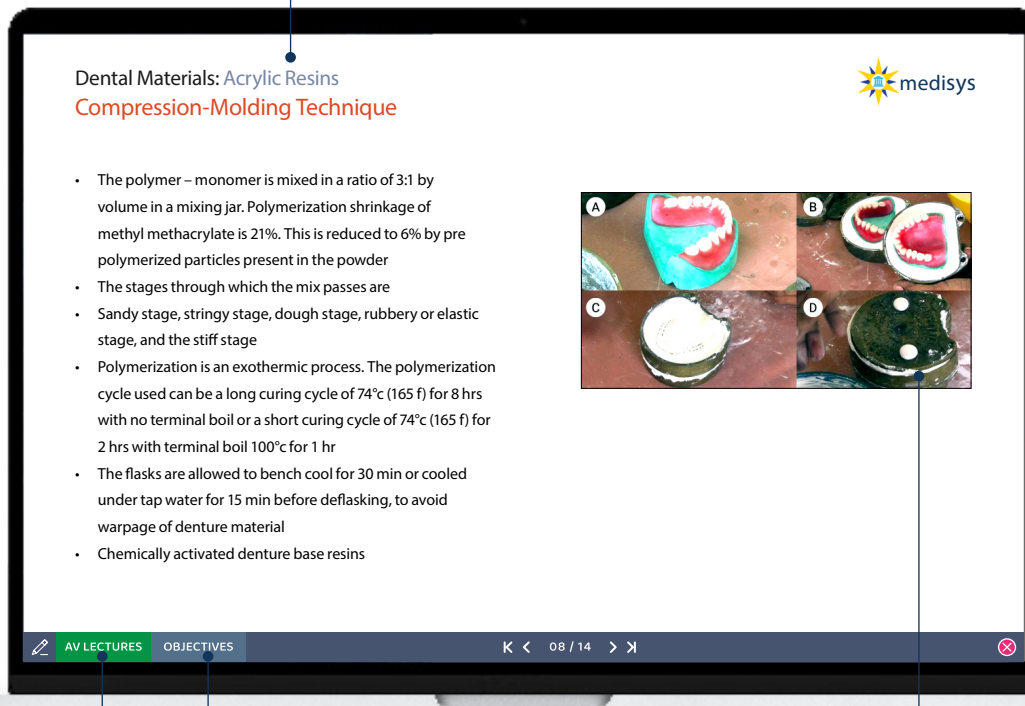


**Self-directed Learning:** Faculty support for online/in campus instruction; Comprehensive AV Lectures and succinct notes for classroom sessions, etc. Extensive range of exhibits plus lab sessions and practice sessions with dental materials, 2D/3D animations and procedure videos on patients.



**Assessments & Analytics:** A comprehensive question bank for formative assessments, assessment's automation and other classroom support for faculty, in the Medisys LMS. Succinct Notes with the question bank.

**Two-column format:** Notes and brief explanations (alongside a range of exhibits pictures, animations, illustrations, etc.)



Launches Audio-video lectures (integrated into the digital books)

Learning Objectives

Exhibits (images and videos) embedded into the digital books

An exhaustive compilation of richly illustrated AV lectures set to curriculum



**Other offerings from Medisys Edutech**

**UG Med:** Covering all aspects of a standard, competency based medical education curriculum: AV lectures, digital books, BSCs, SGDs, test prep, DOAP sessions, Skills modules, ECE, H/V integration notes etc.

**UG Nursing:** A compilation of e-learning sessions that comprehensively cover the complete BSc curriculum: AV lectures, digital books, a vast array of procedure videos, assessments, care plans etc.

**UG Homoeo:** A compilation of e-Learning sessions that comprehensively cover the complete BHMS curriculum.

**Test Prep:** Materials for swift revision and a testing platform for Medical, Dental and Nursing students. Mock assessments for NEXT Exam in association with Prometric.

**Continuing Education:** A vast range of courses, from 2 weeks to 1 year duration, leading to certificates/diplomas, in online/blended delivery modes, Primarily intended for GP/family medicine practice.

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## BDS I

### General Anatomy

1. Anatomical Terms
2. Skin, Superficial Fascia, Deep Fascia
3. Cardiovascular System
4. Osteology
5. Lymphatic System
6. Mycology
7. Syndesmosis
8. Nervous System
9. Osteology of Head and Neck
10. Thorax
11. Abdomen
12. Embryology
13. Histology
14. Medical Genetics

### General Physiology

1. General Physiology
2. Blood
3. Muscle & Nerve
4. Digestive System
5. Excretory System
6. Body Temperatures and Function of Skin
7. Endocrinology
8. Reproduction
9. Cardiovascular System
10. Respiratory System
11. Central Nervous System
12. Special Senses

### General Biochemistry

1. Chemistry of Bio-organic Molecules
2. Macronutrients & Digestion
3. Micronutrients
4. Energy Metabolism
5. Special Aspects of Metabolism
6. Biochemical Genetics and Protein Synthesis
7. Enzyme & Metabolic Regulation
8. Structural Components & Blood Proteins
9. Medical Biochemistry

### Dental Anatomy & Dental Histology

1. Introduction
2. Tooth Morphology
3. Oral Embryology
4. Oral Histology
5. Oral Physiology

## BDS II

### General Microbiology

1. General Microbiology
2. Immunology
3. Systemic Bacteriology
4. Virology
5. HIV
6. Mycology
7. Applied / Clinical Microbiology
8. Parasitology

### General Pathology

1. Introduction to Pathology
2. Etiology and Pathogenesis of Diseases
3. Degenerations
4. Cell Death and Necrosis
5. Inflammation
6. Healing
7. Tuberculosis
8. Syphilis
9. Typhoid
10. Thrombosis
11. Embolism
12. Ischaemia and Infarction
13. Disarrangements of Body Fluids
14. Disorders of Circulation
15. Nutrition Disorders
16. Immunological Mechanisms
17. AIDS and Hepatitis
18. Hypertension
19. Diabetes Mellitus
20. Adaptive Disorders of Growth
21. General Aspects of Neoplasia
22. Systemic Pathology

### Pharmacology

1. General Pharmacology
2. Central Nervous System
3. Cardiovascular Drugs
4. Autacoids and Related Drugs
5. Drugs Acting on Blood
6. Gastrointestinal System
7. Endocrine System
8. Chemotherapy
9. Vitamins
10. Chelating Agents
11. Respiratory System
12. Pharmacotherapy of Emergencies

### Dental Materials

1. Introduction to Dental Materials
2. Structure of Matter and Principles of Adhesion
3. Physical Properties of Dental Materials
4. Biological Considerations
5. Gypsum and Gypsum Products
6. Impression Materials used in Dentistry
7. Synthetic Resins used in Dentistry
8. Metal and Alloys
9. Dental Waxes
10. Dental Casting Investments
11. Soldering, Brazing and Welding
12. Dental Cements
13. Dental Ceramics
14. Abrasion and Polishing Agents
15. Die and Counter Die Materials
16. Dental Implants
17. Mechanics of Cutting

## BDS III

### General Medicine

1. History of Medicine
2. Infectious Disease
3. Systemic Medicine
4. Cardiovascular System
5. Respiratory System
6. Haematology
7. Central Nervous System
8. Endocrinology
9. Gastrointestinal Tract
10. Nephrology
11. Toxicology
12. General Principles of Medicine
13. Medical Specialities
14. Psychiatry

### General Surgery

1. History of Surgery
2. General Principles of Surgery
3. Wounds
4. Inflammation
5. Infections and Surgery
6. Transmissible Viral Infection
7. Shock and Haemorrhage
8. Tumours, Ulcers, Sinus, Cyst and Fistula
9. Diseases of Lymphatic System
10. Diseases of Oral Cavity
11. Diseases of Larynx and Nasopharynx
12. Nervous System
13. Fractures
14. Diseases of Thyroid and Parathyroid
15. Swellings of the Jaw
16. Principles of Operative Surgery
17. Anomalies of Development of Face
18. Biopsy

### Oral Pathology and Microbiology

1. Introduction
2. Developmental Disturbances of Dental Structures
3. Forensic Odontology
4. Dental Caries, Pulp & Periapical Pathology
5. Microbial Infections of Oral Soft Tissues
6. Healing Following Injuries
7. Common Non-inflammatory Diseases Involving the Jaws
8. Diseases of Temporomandibular Joint
9. Cysts and Tumours
10. Non-neoplastic Salivary Gland Diseases
11. Mucocutaneous Lesions
12. Diseases of Nerves
13. Diseases of Oral and Para-Oral Region
14. Pre-cancerous Lesions
15. Systemic Diseases Involving Oral Cavity
16. Diseases of Maxillary Sinus
17. Periodontal Diseases
18. Traumatic and Regressive Lesions of Oral Cavity

## BDS IV

### Oral Medicine and Radiology

1. Diagnostic Methods
2. Infections of Oral Cavity
3. Common Mucosal Lesions
4. Cervico Facial Lymphadenopathy
5. Facial Pain
6. Tongue Disorders
7. Oral Manifestations of Systemic Diseases
8. Diseases of Salivary Glands
9. Dermatological Diseases
10. Immunological Diseases
11. Allergy
12. Management of Medically Compromised
13. Nerve and Muscle Diseases
14. Pre-cancerous Lesions
15. Forensic Odontology
16. Scope of Radiology
17. Radiation Physics, Biopsy and Safety
18. Radiographic Techniques
19. Faulty Radiographs
20. Radiographic Interpretation

### Pedodontics

1. Introduction to Pedodontics
2. Growth Assessment
3. Dental Radiology
4. Developing Dentition and its Disturbances
5. Psychological Development and Behavioural Management
6. Dental Caries in Early Childhood
7. Preventive Approach to Caries Control
8. Paediatric Restorative Dentistry
9. Paediatric Endodontics
10. Developing Malocclusion and its Management
11. Paediatric Considerations for Oral Surgery
12. Dental Care for Special Child
13. Genetics in Paediatric Dentistry
14. Soft Tissues and Oral Lesions in Children
15. Forensic Pedodontics
16. Surgical Pedodontics
17. Interceptive and Preventive Orthodontics
18. Dental Emergencies in Children
19. Dental Care of Children with Special Needs
20. Fluorides

### Orthodontics

1. Introduction
2. Growth and Development
3. Malocclusion
4. Orthodontic Treatment Planning
5. Anchorage in Orthodontics
6. Preventive Orthodontics
7. Interceptive Orthodontics
8. Corrective Orthodontics
9. Orthodontic Appliances
10. Ethics
11. Orthodontic Management

12. Surgical Orthodontics
13. Diagnosis and Treatment Planning
14. Retention and Relapse

### Public Health Dentistry

1. Introduction
2. Public Health and Dental Public Dentistry
3. Environment and Health
4. Behavioural Health and Social Sciences
5. Epidemiology
6. Preventive Dentistry
7. Problem Solving
8. Case History and Indices
9. Provision of Health Care
10. Research Methodology and Biostatistics
11. Practice Management and Administration
12. Legal Issues in Health Care

### Periodontics

1. Normal Periodontium
2. Classification and Epidemiology of Periodontal Disease
3. Etiology of Periodontal Disease
4. Periodontal Pathology
5. Diagnosis, Prognosis and Treatment Plan
6. Management of Patient with Periodontal Disease
7. Diagnosis and Treatment of Periodontal Emergencies
8. Non-surgical Periodontal Therapy
9. Surgical Periodontal Therapy
10. Management of Periodontal Disease
11. Multidisciplinary Approach
12. Oral implantology
13. Lasers
14. Host Response
15. Supportive Periodontal Therapy

### Oral Surgery

1. Introduction to Oral Surgery
2. Diagnosis in Oral Surgery
3. Principles of Oral Surgery
4. Exodontia
5. Impacted Teeth
6. Diseases of Maxillary Sinus and Temporo Mandibular Joint
7. Infections of Oral Cavity
8. Cysts and Tumours of Jaws
9. Fracture of Jaws
10. Salivary Gland Diseases
11. Jaw Deformities
12. Cleft Lip and Cleft Palate
13. Neurological Disorders
14. Medical Emergencies
15. Preprosthetic Surgery
16. Ethics

17. Oral Implantology
18. Local Anaesthesia
19. General Anaesthesia

### Conservative Dentistry and Endodontics

1. Introduction to Operative Dentistry
2. Cariology
3. Infection Control and Isolation
4. Fundamentals in Cavity Preparation
5. Instrumentation
6. Amalgam Restorations
7. Tooth Coloured Restorations
8. Cast Metal and Gold Restorations
9. Pulp and Peri Radicular Diseases
10. Pulpotomy and Apexification
11. Principles of Root Canal Treatment
12. Endodontic Surgery
13. Bleaching of Discoloured Tooth
14. Hypersensitivity
15. Applied Dental Materials
16. Lasers in Endodontist

### Prosthodontics

1. Complete Dentures: Introduction, Diagnosis and Treatment Planning
2. Articulators
3. Denture Foundation and Ridge Relation
4. Impressions
5. Record Bases and Occlusal Rims
6. Jaw Relation and Jaw Movements
7. Tooth Selection
8. Laboratory Procedures
9. Denture Insertion
10. Relining Rebased
11. Introduction and Classification of Removable Partial Denture
12. Components of Removable Partial Denture
13. Survey and Design
14. Impression Materials and Procedures
15. Laboratory Procedures
16. Insertion of Removable Partial Denture
17. Introduction and Fundamentals of Fixed Partial Denture
18. Principles of Tooth Preparation
19. Provisional Restoration
20. Impressions and Working Cast
21. Wax Pattern and Pontics
22. Finishing and Cementation