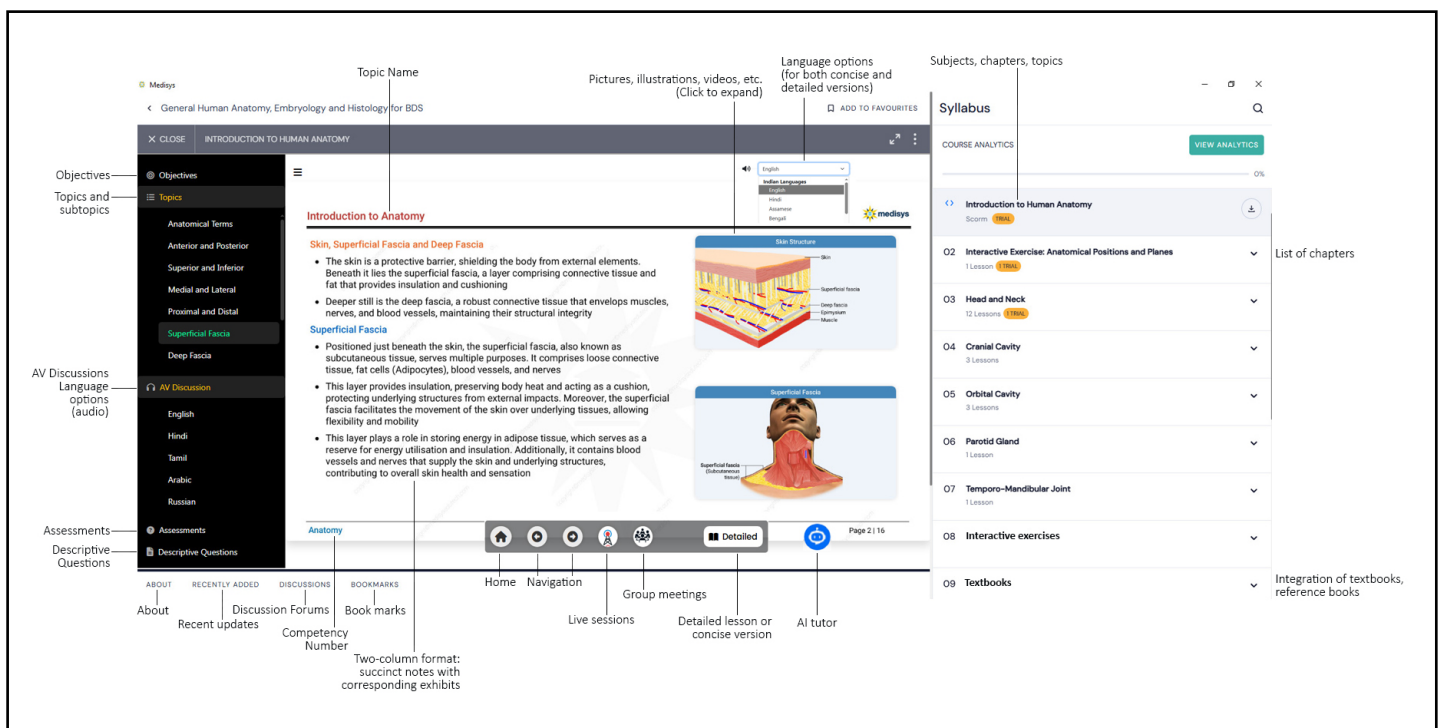


UG Dental

Digital educational materials covering the complete undergraduate curriculum. Peer reviewed, periodically updated, customizable packages. Available presently in English and other languages. Included: Audio lectures, animations and illustration, interactive exercises, podcasts, succinct notes, lab sessions, procedure videos, question banks and explanatory notes. An LMS platform to facilitate swift updates, easy deployment and essential customisation.



- Content and platforms support self-directed learning, formal instruction and assessments, as also supplementary education.
- Coverage includes extensive notes, a wide range of exhibits including illustrations, histology/histopathology images, animations, video clips, etc.



The screenshot displays the Medisys LMS interface for a lesson titled "Introduction to Human Anatomy". The interface is divided into several sections:

- Top Bar:** Includes "Topic Name", "Language options (for both concise and detailed versions)", and "Subjects, chapters, topics".
- Left Sidebar:** Contains navigation menus for "Objectives", "Topics and subtopics", "AV Discussions", "Language options (audio)", and "Assessments".
- Main Content Area:** Features a "Two-column format: succinct notes with corresponding exhibits". The left column contains text about "Skin, Superficial Fascia and Deep Fascia", and the right column contains anatomical diagrams and a video player.
- Right Sidebar:** Displays a "Syllabus" with a list of chapters and lessons, including "Introduction to Human Anatomy", "Interactive Exercise: Anatomical Positions and Planes", "Head and Neck", "Cranial Cavity", "Orbital Cavity", "Parotid Gland", "Temporo-Mandibular Joint", "Interactive exercises", and "Textbooks".
- Bottom Navigation Bar:** Includes icons for "Home", "Navigation", "Group meetings", "Detailed lesson or concise version", and "AI tutor".

Cadaver Dissections

Provide immersive anatomical learning through expertly guided cadaver dissections. These sessions offer unparalleled clarity on human structures, spatial orientation, and clinical correlation—building a strong foundational base.



Preclinical Lab Demonstrations

Deliver structured, step-by-step preclinical demonstrations that help learners develop essential medical and dental skills. Designed to strengthen early clinical competence and bridge the gap between theory and practice.

Tooth Carving Demonstrations

Offer precision-led tooth carving tutorials that enhance anatomical understanding and fine motor skills. These sessions help students master morphology and excel in preclinical assessments.



Clinical Procedural Videos

Present high-quality videos of real clinical procedures with clear visuals and guided narration. Learners gain insight into techniques, instrument handling, workflow, and clinical decision-making.

Oral Histology & Histopathology Museums

Provide access to a curated digital slide library showcasing both normal and pathological tissues. High-resolution images help learners correlate microscopic features with clinical conditions.



Multiple Choice Questions (MCQs)

A comprehensive set of MCQs designed to test recall, reasoning, and clinical application. Ideal for reinforcing concepts and preparing for university and competitive examinations.

Interactive Exercises (Image-Based & Text-Based)

Engage learners with dynamic activities including case scenarios, visual identification, drag-and-drop tasks, and reasoning modules. These boost critical thinking, retention, and hands-on understanding.



Clinical Case Scenarios

Present realistic, step-by-step clinical cases that develop diagnostic reasoning and decision-making skills. These scenarios train learners to apply classroom knowledge to real-world patient situations.

Clinical Learning Grids

Offer concise, quick-reference grids that map symptoms, diagnosis steps, investigations, management plans, instruments, and clinical tips. Designed for fast recall and chairside support during clinical postings.



Question Bank and University Question Papers

Access a comprehensive question bank featuring long answers, short answers, and exam-oriented formats designed to enhance conceptual clarity and improve academic writing skills. In addition, a curated collection of past university papers enables learners to understand exam patterns, topic weightage, and frequently tested concepts—supporting smart, strategic, and confident preparation.

Assignments

Gain from structured, curriculum-aligned assignments that foster independent learning and deeper conceptual engagement. These tasks promote analytical thinking, practical application of knowledge, and continuous academic evaluation—ensuring steady learner progress.



BDS-I

General Anatomy

1. Introduction to Human Anatomy
2. Face and Temple
3. Cranial Cavity
4. Orbital Cavity
5. Parotid Gland
6. Temporo-Mandibular Joint
7. Muscles of Mastication
8. Nervous System
9. Osteology of Head and Neck
10. Infratemporal Fossa
11. Pterygo-palatine Fossa
12. Embryology
13. Histology
14. Medical Genetics
15. Submandibular Space
16. Nasal Cavity and Para Nasal Air Sinuses
17. Oral Cavity
18. Pharynx
19. Larynx
20. Ear
21. Neck Anatomy
22. Deep Structures of Neck
23. Thoraco-Abdominal Diaphragm
24. Sub Clavian Vessels

General Physiology

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

General Biochemistry

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

Dental Anatomy and Dental Histology

1. Introduction
2. Morphology of Deciduous Teeth
3. Occlusion
4. Permanent Tooth Morphology
5. Oral Embryology
6. Oral Histology
7. 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. Cell Structure and Functions
3. Cell Injury Causes, Types and Mechanism
4. Degenerations
5. Cell Death and Necrosis
6. Inflammation
7. Tissue Regeneration and Repair, Wound Healing
8. Tuberculosis
9. Syphilis
10. Typhoid
11. Thrombosis
12. Embolism
13. Ischemia and Infarction
14. Derangements of Body Fluids
15. Disorders of Circulation
16. Nutrition Disorders
17. Immunological Mechanisms
18. AIDS and Hepatitis
19. Hypertension
20. Diabetes Mellitus
21. Cellular Response to Stress and Toxic Results
22. Neoplasia
23. Precancerous Lesions and Conditions
24. Diseases of Oral Cavity
25. Cysts of Oral and Maxillofacial Region
26. Benign and Malignant Tumors
27. Diseases of Bone and Bone Tumors
28. Diseases of Salivary Glands
29. Diseases of Cardiovascular System
30. Disease of Upper Respiratory Tract
31. Endocrine Disorders
32. Genetic Disorders
33. Infectious Diseases
34. Parasitic Diseases
35. Lung Diseases and Tumors
36. Meningitis
37. Thyroid Diseases
38. Exfoliative Cytology
39. Systemic Pathology

Pharmacology

1. General Principles of Pharmacology
2. Central Nervous System
3. Autonomic Drugs
4. Cardiovascular Drugs
5. Autacoids
6. Haematology
7. Gastrointestinal System
8. Endocrine System
9. Chemotherapy
10. Miscellaneous Drugs
11. Respiratory System
12. Dental Pharmacotherapy

Dental Materials

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

BDS-III

General Medicine

1. Aims of Medicine
2. Infections
3. Systemic Medicine
4. Cardiovascular System
5. Respiratory System
6. Haematology
7. Central Nervous System
8. Endocrinology
9. Gastrointestinal Tract
10. Renal System
11. Nutritional Disorders
12. Critical Care

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
9. Ulcers, Sinus, Cyst and Fistula
10. Gangrene
11. Burns
12. Diseases of Lymphatic System
13. Diseases of Oral Cavity
14. Diseases of Salivary Glands
15. Diseases of Larynx and Nasopharynx
16. Nervous System
17. Maxillofacial Trauma and Fractures
18. Diseases of Thyroid and Parathyroid
19. Swellings of the Jaw
20. Principles of Operative Surgery
21. Anomalies of Development of Face
22. Biopsy

Oral Pathology and Microbiology

1. Introduction
2. Developmental Disturbances of Dental Structures
3. Forensic Odontology
4. Dental Caries
5. Pulp and Periapical Pathology
6. Oral Space Infections
7. Microbial Infections of Oral Soft Tissues
8. Healing Following Injuries
9. Common Non-inflammatory Diseases Involving the Jaws
10. Diseases of Bone
11. Diseases of Temporomandibular Joint
12. Cysts and Tumours
13. Non-neoplastic Salivary Gland Diseases
14. Oral Manifestations of Systemic Diseases
15. Mucocutaneous Lesions
16. Diseases of Nerves
17. Pigmented Lesions of Oral Mucosa
18. Red and White Lesions
19. Haematological Diseases
20. Oral Manifestations of HIV
21. Pre-cancerous Lesions
22. Inflammation
23. Defense Mechanism of Oral Tissues
24. Diseases of Maxillary Sinus
25. Periodontal Diseases
26. Traumatic and Regressive Lesions of Oral Cavity

BDS-IV

Oral Medicine and Radiology

1. Diagnostic Methods
2. Developmental Abnormalities Affecting Teeth
3. Diseases of Bone and Osteodystrophies
4. Temporomandibular Joint Disorders and MPDS
5. Cysts and Tumors of Orofacial Region
6. Gingival and Periodontal Diseases
7. Granulomatous Diseases
8. Miscellaneous Disorders: Burkitt Lymphoma, Sturge - Weber Syndrome, CREST Syndrome
9. Infections of Oral and Paraoral Structures
10. Common Mucosal Lesions
11. Cervico Facial Lymphadenopathy
12. Orofacial Pain
13. Altered Sensations: Cacogeusia, Halitosis
14. Tongue in Local and Systemic Disorders
15. Oral Manifestations of Systemic Diseases
16. Diseases of Salivary Glands
17. Blood Disorders
18. Diseases of Skin
19. Allergic and Immunologic Diseases of Oral Cavity
20. Allergic Reactions
21. Foci of Oral Infection and their ill effects on General Health
22. Management of Dental Problems in Medically Compromised Persons

23. Neuromuscular Disorders
24. Genodermatoses
25. Physical and Chemical Injuries
26. Pre-cancerous Lesions & Conditions
27. Therapeutics
28. Forensic Odontology
29. Normal Radiographic Anatomy Landmarks
30. Factors Controlling the X-Ray Beam
31. X-Ray Films
32. Grids, Intensifying Screens
33. Filtration, Collimation
34. Radiation Physics, Biopsy, Safety and Protection
35. Complications of Oral Radiotherapy
36. Contrast Radiography
37. Radiographic Techniques in Pediatric Dentistry
38. Radiotherapy
39. Specialized Radiography
40. Extraoral Radiography
41. Forensic Radiology
42. Intraoral Radiography
43. Orthopantomography
44. Effects of Radiation on Oral and Paraoral Structures
45. X-Ray Film Processing

Pedodontics

1. Introduction to Pedodontics
2. Growth and Development
3. Development of Occlusion
4. Dental Anatomy and Histology
5. Dental Radiology Related to Pedodontics
6. Oral Surgical Procedures in Children
7. Dental Caries
8. Gingival Diseases
9. Child Psychology
10. Child Abuse
11. Behaviour Management
12. Operative Dentistry
13. Stainless Steel Crowns
14. Pediatric Endodontics
15. Traumatic Injuries to Tooth
16. Preventive and Interceptive Orthodontics
17. Preventive Dentistry
18. Oral Habits
19. Special Child
20. Congenital Abnormalities in Children
21. Dental Materials used in Pediatric Dentistry
22. Dental Emergencies in Children
23. Fluorides
24. Dental Health Education and School Dental Health Programs
25. Case History
26. Pediatric Dental Clinic
27. Ethics

Orthodontics

1. Introduction
2. Growth and Development
3. Morphologic Development of Craniofacial Structures
4. Functional Development of Dental Arches and Occlusion
5. Development of Dentition and Occlusion

6. Clinical Application of Growth and Development
7. Malocclusion Etiology and Classification
8. Diagnosis and Diagnostic Aids in Orthodontics
9. Cephalometrics
10. Skeletal Maturity Indicators
11. Biomechanical Principles in Orthodontic Tooth Movement
12. Biology of the Tooth Movement
13. Orthodontic Treatment Planning
14. Anchorage in Orthodontics
15. Preventive Orthodontics
16. Interceptive Orthodontics
17. Corrective Orthodontics
18. Orthodontic Appliances
19. Management of Malocclusion
20. Surgical Orthodontics
21. Retention and Relapse
22. Ethics

Public Health Dentistry

1. Introduction
2. Public Health
3. Dental Public Health
4. Health Education
5. Dental Man-power
6. Ethics in Dentistry
7. Health Care Delivery Systems
8. Hospital Waste Management
9. Occupational Hazards
10. Indices in Dental Epidemiology
11. Survey
12. Operating Auxiliaries
13. Finances in Dental Care
14. Atraumatic Restorative Treatment
15. Caries Activity Tests
16. Pit and Fissure Sealants
17. Planning and Evaluation
18. Environment and Health
19. Behavioural Health and Social Sciences
20. Epidemiology
21. Preventive Dentistry
22. Provision of Health Care
23. Research Methodology and Biostatistics
24. Practice Management and Administration

Periodontics

1. Introduction to Periodontology
2. Development and Structure of Periodontal Tissues
3. Gingival Crevicular Fluid
4. Defensive Mechanisms in the Oral Cavity
5. Aging and Periodontium
6. Classification of Gingival and Periodontal Diseases
7. Gingival Diseases
8. Epidemiology of Periodontal Diseases
9. Extension of Inflammation from Gingiva
10. Periodontal Pocket
11. Etiology of Periodontal Disease
12. Risk Factors for Periodontal Diseases
13. Host Microbial Interactions
14. Periodontitis
15. Furcation
16. Clinical Diagnosis
17. Advanced Diagnostic Aids
18. Halitosis
19. Prognosis
20. Periodontal Therapy

21. Scaling and Root Planing	4. Principles of Cavity Preparation	12. Tooth Selection
22. Pocket Eradication Procedures	5. Treatment Planning for Operative Dentistry	13. Laboratory Procedures
23. Periodontal Flap	6. Gnathological Concepts of Restoration	14. Denture Insertion
24. Periodontal Instrumentation	7. Armamentarium for Cavity Preparation	15. Problems Associated with Wearing Complete Denture and its Management
25. Periodontal Flap Technique for Pocket Therapy	8. Amalgam Restorations	16. Relining and Rebasing
26. Resective Osseous Surgery	9. Pulp Protection	17. Immediate Complete Dentures Construction Procedure
27. Mucogingival Surgery	10. Anterior Restorations	18. The Single Complete Denture
28. Splinting	11. Tooth Coloured Restorations	19. Overdentures
29. Hypersensitivity	12. Cast Metal and Gold Restorations	20. Dental Implants in Complete Denture
30. Oral implantology	13. Preventive Measures in Restorative Practice	21. Introduction and Classification of Removable Partial Denture
31. Lasers	14. Temporization	22. Components of Removable Partial Denture
32. Pharmacotherapy	15. Pin Retained Amalgam Restoration	23. Examination, Diagnosis and Treatment Planning & Evaluation of Diagnostic Data
33. Maintenance Phase	16. Deep Caries Management	24. Survey and Design
34. Supportive Periodontal Therapy	17. Non Carious Cervical Lesion	25. Mouth Preparation for RPD
35. Periodontal Management of Medically Compromised Patients	18. Cast Restoration	26. Impressions in RPD
36. Endo-perio Lesions	19. Casting Procedures and Casting Defects	27. Impression Materials and Procedures in RPD
37. Systemic Effects of Periodontal	20. Die Materials and Preparation of Dies	28. Preliminary Jaw Relation and Try-in for Anterior Teeth
38. Diseases in Brief Infection Control Protocol	21. Control of Pain During Operative Procedures	29. Completion, Try-in and Insertion of the Partial Denture
39. Periodontal Indices	22. Endodontics: Introduction, Definition, Scope and Future of Endodontics	30. Laboratory Procedures for Constructoin of RPD
40. Nutrition in Periodontium	23. Case Selection and Treatment Planning in Endodontics	31. Immediate Removable Partial Denture
41. Bone Loss and Patterns of Bone Destruction	24. Pulp and Peri Radicular Diseases	32. Removable Partial Dentures Opposing Complete Denture
42. Stress and Periodontium	25. Pulpotomy and Apexification	33. Insertion of Removable Partial Denture
Oral Surgery	26. Principles of Root Canal Treatment	34. Introduction and Fundamentals of Fixed Partial Denture
1. Introduction to Oral Surgery	27. Endodontic Surgery	35. Treatment Planning for Single Tooth Restorations
2. Diagnosis and Treatment Planing in Oral Surgery	28. Bleaching of Discoloured Tooth	36. Principles of Tooth Preparation
3. Infection Control	29. Hypersensitivity	37. Fabrication of FPD - Wax Patterns, Investing and Casting
4. Principles of Oral Surgery	30. Applied Dental Materials	38. Preparations for Intracoronal Restorations
5. Exodontia	31. Lasers in Endodontist	39. Preparations for Extensively Damaged Teeth and Periodontally Compromised Teeth
6. Impacted Teeth	32. Emergency Endodontic Procedures	40. The Functionally Generated Path Technique
7. Diseases of Maxillary Sinus and Temporomandibular Joint	33. Rationale of Endodontic Treatment	41. Provisional Restoration
8. Infections of Oral Cavity	34. Anatomy of Pulp Cavity	42. Impressions and Working Cast
9. Oral Space Infections	35. Root Canal Treatment Steps	43. Finishing and Cementation
10. Cysts and Tumours of Jaws	36. Post Endo Restorations	44. Failures in FPD
11. Maxillo Facial Trauma	37. Smear Layer and its Importance	45. Impressions in FPD
12. Dentoalveolar Injuries	38. Traumatic Injuries	46. Occlusion in FPD
13. Salivary Gland Diseases	39. Root Resorption and Management	47. Pontics
14. Skeletal Dentofacial Deformities and Management	40. Replantation and Transplantation	48. Temporary Restoration of Fixed Partial Denture
15. Cleft Lip and Cleft Palate	41. Ethics	49. Esthetic Problem in Crown and Ridge Procedure
16. Neurological Disorders	Prosthodontics	50. Restoration of Endodontically Treated Teeth
17. Medical Emergencies	1. Introduction to Prosthodontics	51. Interocclusal Registration
18. Emergency Drugs	2. Biological Considerations in Dental Materials	52. Corrections of Occlusal Discrepancies
19. Preprosthetic Surgery	3. Anatomical Landmarks of Edentulous Mouth	
20. Ethics	4. Improving the Patient's Denture Foundation and Ridge Relation	
21. Oral Implantology	5. Complete Dentures: Introduction, Diagnosis and Treatment Planning	
22. Local Anaesthesia	6. Articulators	
23. General Anaesthesia	7. Occlusion in Complete Denture	
24. Biopsy in Oral and Maxillofacial Surgery	8. Impressions in CD	
Conservative Dentistry and Endodontics	9. Record Bases and Occlusal Rims	
1. Nomenclature of Dentifition	10. Trial Dentures	
2. Dental Caries	11. Jaw Relation and Jaw Movements	
3. Infection Control and Isolation		

Medisys also offers 2 year course packages for Para Dental Professionals such as Dental Hygienists, Dental Operating Room Assistants and Dental Mechanics.

Similar UG packages for MBBS, BSc (Nursing) and BHMS, are also available.

UG packages in Physiotherapy, Ayurveda, Allied Health will be ready during 2026.

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