



PROPOSAL

**PROPOSAL FOR THE DIGITAL TRANSFORMATION
OF MEDICAL EDUCATION, DENTAL EDUCATION,
NURSING EDUCATION**

PROJECT

Empowering Medical, Dental, and Nursing Ecosystem with Curriculum-Based Digital Education Platforms and Continuing Education Modules.



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1. Executive Summary

Medisys Edutech Private Limited proposes a landmark partnership to implement a comprehensive, curriculum-aligned digital education ecosystem across medical colleges, dental colleges, nursing institutions, and hospitals nationwide. This initiative aims to address key challenges in medical education, including the standardization of high-quality learning, the shortage of specialized faculty, and the need for continuous professional development of healthcare professionals within the academic and clinical framework.

Our solution provides a unified platform featuring peer-reviewed digital content for undergraduate MBBS, BDS, and BSc (Nursing) students, fully compliant with NMC, DCI, and INC guidelines respectively. For practicing doctors and nursing officers, we offer a robust portfolio of continuing education (CME) courses, including National Health Mission (NHM)-related modules and specialized certificate courses.

This partnership will empower students with self-directed learning tools, assist faculty with multimedia-rich teaching aids, and provide professionals with accessible resources for skill enhancement. The initiative will significantly elevate healthcare standards, leading to better patient outcomes and a stronger, more competent national healthcare workforce.

2. Introduction: About Medisys Edutech

Medisys Edutech is a leading provider of curriculum-based digital educational content, platforms, and services designed to comprehensively support health sector education. Our core mission is to democratize quality education by creating engaging, accessible, and regulator-aligned learning materials. Our platforms are built to support the entire educational journey, from in-class instruction and online teaching to self-directed learning, standardized assessments, and exam preparation.

Our materials are crafted by subject matter experts and combine text, audio-visual lectures, animations, procedural videos, interactive exercises, and podcasts to create a rich, multi-faceted learning experience.

3. The Challenge: Standardizing Medical Education in Institutions

The esteemed institutions are vital to the nation's healthcare infrastructure. However, like many large networks, they face inherent challenges that can be effectively addressed through technology:

- **Shortage of Competent Professors:** A nationwide network often faces disparities in the availability of experienced faculty across all subjects, leading to variations in educational quality between institutions.
- **Logistical Challenges, Especially in North-Eastern States:** Geographic and logistical hurdles can make it difficult to provide uniform educational resources, access to specialized guest lecturers, and consistent training standards in remote locations.
- **Need for Continuous Learning:** The medical field is in constant evolution. doctors and nursing officers require a structured, accessible, and continuous learning mechanism to stay updated with the latest medical advancements, treatment protocols, and technologies.
- **Standardization of Curriculum Delivery:** Ensuring that every student across all colleges receives the same high standard of education and is assessed uniformly is a significant operational challenge.



4. The Proposed Solution: A Unified Digital Ecosystem

We propose to deploy the complete suite of Medisys Edutech's digital packages, creating a single, cohesive educational platform for all stakeholders.

4.1 For Undergraduate Students (MBBS, BDS, BSc Nursing)

Our undergraduate packages are fully aligned with the guidelines of the National Medical Commission (NMC), Dental Council of India (DCI), and Indian Nursing Council (INC). The app-based modules offer:

- **Comprehensive Curriculum Coverage:** Complete, year-wise and semester-wise modules for MBBS, BDS, and BSc (Nursing) courses.
- **Rich Multimedia Content:** Engaging audio-visual lectures enhanced with animations, illustrations, and procedure videos.
- **Practical & Clinical Training Modules:** An extensive library of DOAP (Demonstrate, Observe, Assist, Perform) sessions, cadaver dissection videos, certifiable skills modules with rubrics, and preclinical practical demonstrations.
- **Interactive Learning & Assessment:** Features include interactive exercises, indexed question banks for MCQs and descriptive answers, and self-assessment tools with explanatory notes.
- **Bilingual Support:** Content is available in English with audio options in other languages like Hindi, ensuring better comprehension.

4.2 For Practicing Doctors & Nursing Officers (Continuing Medical Education)

To ensure lifelong learning and capacity building, our CME platform offers:

- **Refresher Courses:** A comprehensive range of refresher courses for Medical Officers (MOs) and Community Health Officers (CHOs) in public health systems and family medicine.
- **Specialized Certificate Courses:** Modules on critical topics such as Elderly Care, Management of Common Emergencies, Oral Care, Palliative Care, and Mental Health for both MOs and CHOs.
- **Advanced Training:** Longer-term courses like Diploma in Family Medicine, Fellowship in Diabetes Mellitus, and Diploma in Hospital Management certified by IMA
- **NHM-Related Courses:** We have developed all National Health Mission-related courses for Medical and Community Health Officers.

44.3 The Technology Platform: Features and Accessibility

- **Dedicated "Health Educate" App:** We propose creating a custom-branded app for dedicated messaging and easy access for all users.
- **Flexible Deployment:** The platform can be deployed online via the app, or offline on servers in college libraries and lecture halls.
- **Universal Accessibility:** The platform is browser-based and also available as a native app for both IOS and Android devices. It is optimized to perform smoothly even on 3G networks. For students in remote places where network connectivity fluctuates, the app allows for downloading video classes to watch offline at their convenience.
- **Advanced Reporting:** An integrated Customer Relationship Management (CRM) system will track and report on the progress of all users
- **Learning Management System (LMS):** An easy-to-use LMS to track student progress, manage assessments, and facilitate course administration

Key Platform Features

1

Unified App-Based Access (iOS & Android)

2

Web Browser Compatibility

3

3G Optimization & Offline Video Download

4

Online/Offline Functionality

5

LMS for Administration & Analytics

6

Bilingual Audio-Visual Lectures (English/Hindi)

7

Interactive Exercises & Quizzes

8

Indexed Question Banks

9

DOAP & Certifiable Skills Modules with Rubrics

10

Podcast-style Summaries & Case Discussions

11

Live Class & Conference Integration – Global Expert Access:
Facilitate live, interactive sessions with leading medical thought leaders and specialists from around the world.

5. Methodology & Implementation Timeline (Phase I- 5Year)

We propose a collaborative Phase I- 5year MOU for one complete student medical education term, to ensure seamless integration and long-term success, which can be renewed every 5 years .

● **(Foundation & Rollout):**

- **Q1:** Formation of a joint Medisys-College committee. Signing of 5-year MOU. Needs assessment and content customization workshops.
- **Q2:** On boarding and training for faculty and initial student batches.
- **Q3-Q4:** Inauguration of the "College Health Educate" platform.

● **(Enrichment & Integration):**

- Establishment of local recording studios in prominent colleges to create customized case presentations and podcasts.
- Integration of live classes and international conferences by top global doctors through the platform.
- Continuous content updates based on feedback and curriculum changes.

● **(Expansion & Excellence):**

- Introduction of new courses for Allied Health professionals.
- Advanced analytics reporting to the Ministry on learning outcomes and system-wide performance.
- Renewal planning and introduction of next-generation platform features.

6. Strategic Benefits to the Government, and the Nation

- **For Students & Professionals:**

- **Standardized Excellence:** Access to high-quality, expert-led education, irrespective of their physical location, bridging the gap left by faculty shortages.
- **Enhanced Skills:** Continuous access to the latest medical knowledge, procedures, and CME credits for career advancement.

- **For The Government:**

- **Improved Healthcare Outcomes:** A better-trained workforce directly translates to higher quality patient care for millions of insured workers and their families.
- **Cost-Effective Solution:** A single digital solution is far more economical than attempting to hire specialized faculty for every institution.
- **Bridging Educational Gaps:** This model offers a direct and effective solution to elevate the quality of medical education in remote and underserved regions. The platform's capability to support offline downloading of academic content significantly mitigates challenges arising from poor or inconsistent internet connectivity, ensuring uninterrupted access to high-quality learning resources for students and healthcare professionals.

- **For the Nation:**

- **A Future-Ready Medical Workforce:** Graduates will be well-versed in digital tools and lifelong learning.
- **Strengthened Public Health:** By empowering professionals with NHM-related and public health courses, this initiative directly supports national health goals.

7. Medisys Edutech's Qualifications & Experience

Medisys is uniquely positioned for this partnership. We have:

- **Proven Track Record :** An evaluation of our platform was previously undertaken in several colleges and implemented and a positive recommendation was made.
- **Expertise in Public Health Education:** We have successfully developed and deployed all National Health Mission-related courses for Medical and Community Health Officers.
- **Curriculum Mastery:** Our content is peer-reviewed and meticulously designed to align with the competency-based frameworks of India's top medical regulatory bodies.



8. Financial Outlay & Investment Options

We are committed to providing a transparent and value-driven financial model. The following is a preliminary estimate designed to showcase the affordability and scalability of our solution for a nationwide rollout.

A. Undergraduate Courses (Per Student Basis)

Course	Duration (Years)	Cost Per Student (Per Year)	Total Cost Per Student (Full Course)
MBBS	5.5	₹ Available upon request	₹ Available upon request
BDS	4	₹ Available upon request	₹ Available upon request
BSc (Nursing)	4	₹ Available upon request	₹ Available upon request

Above outlay Priced at an aggregate of the following elements:

1. Faculty, library, and classroom access of all MBBS course materials.
2. Individual student access.
3. Skills and practical modules – certifiable skills, clinical DOAPs, AETCOM, bedside learning, and related modules.
4. Question banks and assessment tools.
5. LMS, CRM, and a dashboard.
6. Studio development, new recording of materials, intensive training of staff and students.
7. Issuance of passwords, product utilisation reports, user surveys, and coordinating new content development (case/journal article presentation, podcasts and interviews, faculty development programs, etc.)
8. Global Expert Access: Facilitate live, interactive sessions with leading medical thought leaders and specialists from around the world

B. Continuing Education & Professional Training

For practicing doctors and nursing officers, we recommend an **Institutional Bulk Licensing Model**. This provides unlimited access to the entire CME library for a fixed annual fee per hospital/institution, promoting widespread adoption and continuous learning. Detailed pricing can be provided based on the number of participating institutions and professionals.

9. Post-Procurement Support & Partnership Model

Our commitment extends far beyond procurement. We will provide:

- **Dedicated Support:** A dedicated contact center and CRM solution to manage user queries, gather feedback, and ensure high engagement.
- **Continuous Customization:** We will work with you to continuously source and publish specific cases and content relevant to your patient demographic.
- **Live Global Sessions:** We will facilitate a calendar of live classes and medical conferences with leading doctors from across the globe, accessible exclusively through the platform.
- **Faculty Training:** Comprehensive "Train-the-Trainer" programs to empower faculty to use the digital platform as an effective teaching aid.
- **Advanced Performance Management:** Our Customer Relationship Management (CRM) system provides detailed analytics on course completion, assessment marks, and performance of each student. A monthly digital report card will be sent to individual students, and a comprehensive college-wise report will be provided to the management. This data enables the identification of and support for poor-performing students through targeted actions like special sessions

MODULES

Product Introduction (All below course details in Appendix A)

- 1. MBBS Digital Education Package**
- 2. The BDS Digital Education Package**
- 3. BSc (Nursing) Digital Education Package**
- 4. Continuing Education for Health Sectors Professionals**

10. Conclusion & Call to Action

This proposal outlines a transformative vision to unify and elevate the standard of medical education across the entire ecosystem. By leveraging our proven digital platform, can overcome persistent challenges, empower its students and professionals, and set a new national benchmark for excellence in healthcare training.

We request the honour of an opportunity to present this proposal and demonstrate our platform's capabilities to you and your esteemed team. We formally propose the formation of a joint committee to explore the modalities of this partnership and draft a 5-year Memorandum of Understanding.

Together, we can build a healthier, stronger India.

Sincerely,

Medisys Edutech Private Limited

11. Appendices

Detailed Overview of Course Modules

- **MBBS (UG):** Covers all subjects across 4 years as per CBME guidelines, including Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Forensic Medicine, Community Medicine, and all clinical subjects. Includes specialized modules like Early Clinical Exposure, AETCOM, Bed-side Clinics, and Certifiable Skills.
- **BDS (UG):** Covers all subjects for BDS I, II, III, and IV years, including Dental Anatomy, General Pathology, Oral Pathology, Pedodontics, Orthodontics, Periodontics, and Prosthodontics. Includes 135 Pre-Clinical Practical Demonstrations and 14 Tooth Carving Demonstrations.
- **BSc (Nursing) (UG):** Complete semester-based curriculum as per the Indian Nursing Council, including Nursing Foundation, Applied Nutrition, Pharmacology, Adult Health Nursing, Child Health Nursing, and Midwifery. Includes 156 Nursing Procedures and 142 Nursing Clinical Care Plans.
- **Continuing Medical Education (CME):** Certificate courses for MOs and CHOs, Diplomas, and Fellowships in fields like Family Medicine, Diabetes, Cardiology, and Hospital Management.

Appendix A



MBBS (UG)

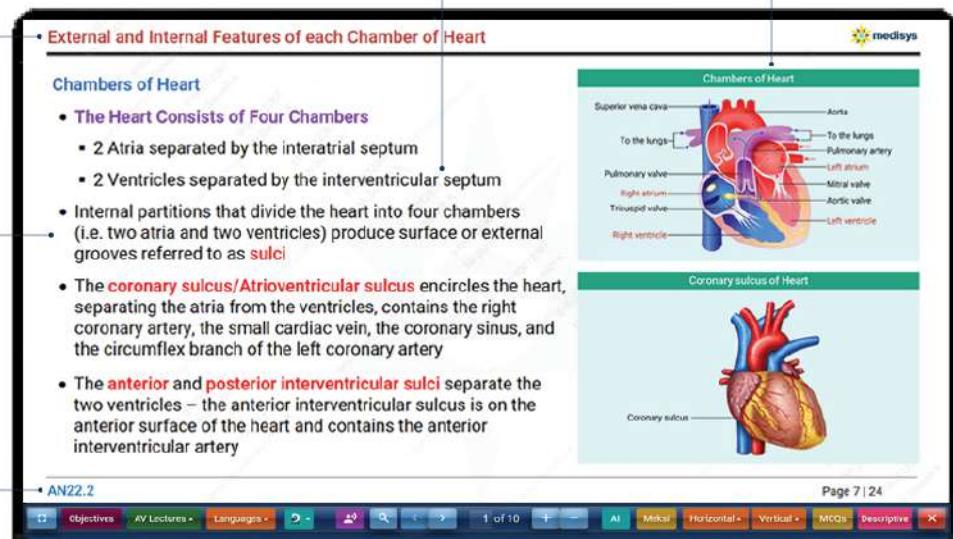
UG Medical

Content, platforms, and services to comprehensively support undergraduate medical education. Built as per the NMC-specified 'CBME' guidelines. AV presentations, notes in text & audio, in English and other languages. Also included are Lab sessions, procedure demonstrations, interactive exercises, skills development modules with log sheets, rubrics, and audio explanations, bedside learning, assessments with answer keys and explanatory notes, and various assignments. Designed to assist the teacher and facilitate self-directed learning. Modular platform structure to facilitate swift updates, easy deployment, online training, user surveys, and some limited customisation.

- Digital compilation that supports formal instruction as well as self-learning, and Small group discussions.
- Audio-video lectures: With illustrations, animations, charts, procedure videos, etc.
- A Foundation course to introduce to medical education and a portfolio of early clinical exposure modules for the 1st year of MBBS.
- A comprehensive set of laboratory sessions covering all pre- and para-clinical sciences, cadaveric dissections, anatomy and pathology museums, etc. Also, clinical DOAPS (Demonstrate, Observe, Assist, Perform) AV sessions with text and audio notes.
- Bedside clinics: Text audio/video modules on case scenarios in a clinical setting. Detailed audio explanations.
- Certifiable skills: Video-based lessons for psychomotor learning, performed on volunteers, manikins, or patients, complete with log books, check lists, best practices, common errors & consequences, besides audio notes and explanations.
- Materials for small group learning. Along with facilitator guidelines.
- Assessments and analytics: Digital notes and AV sessions for swift revision, comprehensive indexed question banks, assessments in exam conditions, performance analytics, and explanatory notes.
- For the Institution: An easy-to-use Learning Management System, along with an assessment /evaluation/reporting system

Flexible Deployment Options

- **In the college:** Online/server/offline (Library, classroom)
- **To the students:** Via an app (Phone/tablet)
- Online teaching, interactive learning course admin support, and some customisation,

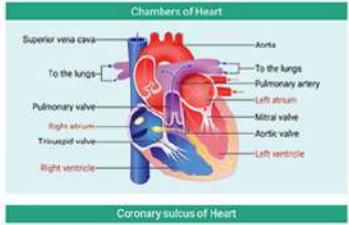


The screenshot shows a digital learning interface for a medical topic. The top navigation bar includes 'Objectives', 'AV Lectures', 'Language', 'Search', 'Page turn format', 'AI', 'Moral', 'Horizontal', 'Vertical', 'MCQs', and 'Descriptive' buttons. The main content area is titled 'External and Internal Features of each Chamber of Heart' and contains the following text and diagram:

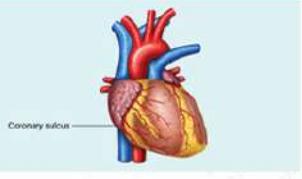
Chambers of Heart

- **The Heart Consists of Four Chambers**
 - 2 Atria separated by the interatrial septum
 - 2 Ventricles separated by the interventricular septum
 - Internal partitions that divide the heart into four chambers (i.e. two atria and two ventricles) produce surface or external grooves referred to as **sulci**
 - The **coronary sulcus/Atrioventricular sulcus** encircles the heart, separating the atria from the ventricles, contains the right coronary artery, the small cardiac vein, the coronary sinus, and the circumflex branch of the left coronary artery
 - The **anterior and posterior interventricular sulci** separate the two ventricles – the anterior interventricular sulcus is on the anterior surface of the heart and contains the anterior interventricular artery

Chambers of Heart



Coronary sulcus of Heart



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Annotations on the left side of the interface:

- Subject/Chapter/Topic: External and Internal Features of each Chamber of Heart
- Enhanced text and Interactive exercises: Points to the detailed text description of the heart chambers.
- Competency Number/Topic/Subtopic: AN22.2

Annotations at the bottom of the interface:

- Notes / lessons on Specific Learning Objectives
- Additional Language options (text)
- Search
- Additional Language options (audio)
- Page turn format
- Reference Materials from Publishing Partners
- Horizontal & Vertical Integration
- MCQs
- Clinical Reasoning Exercises, interactive sessions
- Questions for Descriptive Responses
- Audio-visual lectures with animations, line diagrams, charts, etc. (English)

- Similar UG packages for BDS, BSc (Nursing), and BHMS are also available
- UG packages in Physiotherapy, Ayurveda, and Allied Health will be ready in 2025
- Course Administration platform (for all UG courses) integrated with content and question banks

UG Medical Course Curriculum (According to CBME)

Year - I

Anatomy

1. Anatomical Terminology
2. General Features of Bones and Joints
3. General Features of Muscle
4. General Features of Skin and Fascia
5. General Features of the Cardiovascular System
6. General Features of the Lymphatic System
7. Introduction to the Nervous System
8. Features of Individual Bones (Upper Limb)
9. Pectoral Region
10. Axilla, Shoulder, and Scapular Region
11. Arm and Cubital Fossa
12. Forearm and Hand
13. General Features, Joints, Radiographs, and Surface Marking
14. Features of Individual Bones (Lower Limb)
15. Front and Medial Side of Thigh
16. Gluteal Region and Back of Thigh
17. Hip Joint
18. Knee Joint, Anterior Compartment of Leg and Dorsum of Foot
19. Back of Leg and Sole
20. General Features, Joints, Radiographs, and Surface Marking
21. Thoracic Cage
22. Heart and Pericardium
23. Mediastinum
24. Lungs and Trachea
25. Thorax
26. Skull Osteology
27. Scalp
28. Face and Parotid Region
29. Posterior Triangle of Neck
30. Cranial Cavity
31. Orbit
32. Anterior Triangle
33. Temporal and Infratemporal Regions
34. Submandibular Region
35. Deep Structures in the Neck
36. Mouth, Pharynx, and Palate
37. Cavity of the Nose
38. Larynx
39. Tongue
40. Organs of Hearing and Equilibrium
41. Eyeball
42. Back Region
43. Head and Neck Joints, Histology, Development, Radiography and Surface Marking

44. Anterior Abdominal Wall
45. Posterior Abdominal Wall
46. Male External Genitalia
47. Abdominal Cavity
48. Pelvic Wall and Viscera
49. Perineum
50. Vertebral Column
51. Sectional Anatomy
52. Histology and Embryology
53. Osteology
54. Radiodiagnosis
55. Surface Marking
56. Meninges and CSF
57. Spinal Cord
58. Medulla Oblongata
59. Pons
60. Cerebellum
61. Midbrain
62. Cranial Nerve Nuclei and Cerebral Hemispheres
63. Ventricular System and Special Sensory Pathways
64. Histology and Embryology
65. Epithelium Histology
66. Connective Tissue Histology
67. Muscle Histology
68. Nervous Tissue Histology
69. Blood Vessels
70. Glands and Lymphoid Tissue
71. Bone and Cartilage
72. Integumentary System
73. Chromosomes
74. Patterns of Inheritance
75. Principle of Genetics, Chromosomal Aberrations and Clinical Genetics
76. Introduction to Embryology
77. Gametogenesis and Fertilization
78. Second Week of Development
79. 3rd to 8th Week of Development
80. Fetal Membranes
81. Prenatal Diagnosis
82. Ethics in Anatomy

Physiology

1. General Physiology
2. Haematology
3. Nerve and Muscle Physiology
4. Gastro-Intestinal Physiology
5. Cardiovascular Physiology
6. Respiratory Physiology
7. Renal Physiology
8. Endocrine Physiology
9. Reproductive Physiology
10. Central Nervous System Physiology
11. Special Senses
12. Integrated Physiology

Biochemistry

1. Basic Biochemistry
2. Enzyme
3. Chemistry and Metabolism of Carbohydrates
4. Chemistry and Metabolism of Lipids
5. Chemistry and Metabolism of Proteins and Immunology
6. Extracellular Matrix
7. Integration of Metabolism and Biological Oxidation
8. Vitamins and Nutrition
9. Minerals, Electrolytes, Water, and Acid Base Balance
10. Molecular Biology
11. Organ Function Tests and Hormones
12. Xenobiotic, Oxidative Stress, and Antioxidants
13. Miscellaneous
14. Biochemical Laboratory Test/Practical

UG Medical Course Curriculum (According to CBME)

Year - II

Pharmacology

1. General Pharmacology
2. Autonomic and Peripheral Nervous System, Autacoids
3. Central Nervous System
4. Cardiovascular System and Blood
5. Respiratory System
6. Gastrointestinal System
7. Endocrine System
8. Chemotherapy
9. Miscellaneous
10. Applied Pharmacology

Pathology

1. Introduction to Pathology
2. Cell Injury and Adaptation
3. Inflammation
4. Healing and Repair
5. Haemodynamic Disorders
6. Neoplastic Disorders
7. Basic Diagnostic Cytology
8. Immunopathology and AIDS
9. Amyloidosis
10. Infections and Infestations
11. Genetic and Paediatric Diseases
12. Environmental and Nutritional Diseases
13. Introduction to Hematology
14. Microcytic Anemia
15. Macrocytic Anemia
16. Hemolytic Anemia
17. Aplastic Anemia
18. Leukocyte Disorders
19. Lymph Node and Spleen
20. Hemorrhagic Disorders
21. Blood Banking and Transfusion
22. Clinical Pathology
23. Gastrointestinal Tract
24. Hepatobiliary System
25. Respiratory System
26. Cardiovascular System
27. Urinary Tract
28. Male Genital Tract
29. Female Genital Tract
30. Breast
31. Endocrine System
32. Bone and Soft Tissue
33. Skin
34. Central Nervous System
35. Eye

Microbiology

1. General Microbiology, Ethics, and Communication
2. Basic Immunology and Immunological Disorders
3. CVS and Blood
4. Gastrointestinal and Hepatobiliary System
5. Musculoskeletal System Skin and Soft Tissue Infections
6. Central Nervous System Infections
7. Respiratory Tract Infections
8. Genitourinary and Sexually Transmitted Infections
9. Zoonotic Diseases and Miscellaneous
10. Healthcare-Associated Infections

Year - III

Forensic Medicine

1. Introduction to Forensic Basics of Legal Procedure
2. Forensic Pathology
3. Mechanical Asphyxia
4. Clinical Forensic Medicine - Identification
5. Clinical Forensic Medicine - Mechanical Injuries and Wounds
6. Clinical Forensic Medicine - Firearm Injuries
7. Clinical Forensic Medicine - Regional Injuries
8. Clinical Forensic Medicine - Sexual Offences
9. Clinical Forensic Medicine Child Abuse and Torture and Human Rights
10. Medical Jurisprudence (Medical Law and Ethics)
11. Forensic Psychiatry
12. Forensic Laboratory Investigation, Recent Advances and Trace Evidence
13. Toxicology
14. Skills in Forensic Medicine

Toxicology

Community Medicine

1. Concept of Health and Disease
2. Relationship of Social and Behavioural to Health and Disease
3. Environmental Health Problems
4. Principles of Health Promotion and Education
5. Nutrition
6. Basic Statistics and Its Applications
7. Epidemiology
8. Epidemiology of Communicable and Non-Communicable Diseases
9. Demography and Vital Statistics
10. Reproductive, Maternal, and Child Health
11. Occupational Health
12. Geriatric Services
13. Disaster Management
14. Hospital Waste Management
15. Mental Health
16. Health Planning and Management
17. Health Care of the Community
18. International Health
19. Essential Medicine
20. Recent Advances in Community Medicine

Otorhinolaryngology (ENT)

1. Anatomy and Physiology of the Ear, Nose, Throat, Head, and Neck
2. Clinical Skills
3. Diagnostic and Therapeutic in ENT

Ophthalmology

1. Visual Acuity Assessment
2. Lids and Adnexa, Orbit
3. Conjunctive
4. Corneas
5. Sclera
6. Iris and Anterior Chamber
7. Glaucoma
8. Lens
9. Retina and Optic Nerve
10. Miscellaneous

UG Medical Course Curriculum (According to CBME)

Year - IV

General Medicine

- 1. Heart Failure
- 2. Acute Myocardial Infarction / IHD
- 3. Pneumonia
- 4. Fever and Febrile Syndromes
- 5. Liver Disease
- 6. HIV
- 7. Rheumatologic Problems
- 8. Hypertension
- 9. Anaemia
- 10. Acute Kidney Injury and Chronic Renal Failure
- 11. Diabetes Mellitus
- 12. Thyroid Dysfunction
- 13. Common Malignancies
- 14. Obesity
- 15. GI Bleeding
- 16. Diarrheal Disorders
- 17. Headache
- 18. Cerebrovascular Accident
- 19. Movement Disorders
- 20. Seizure Disorders
- 21. Envenomation
- 22. Poisoning
- 23. Mineral, Fluid Electrolyte and AAcid-BaseDisorder
- 24. Nutritional and Vitamin Deficiencies
- 25. Geriatrics
- 26. Infectious Diseases
- 27. Tuberculosis
- 28. Obstructive Airway Diseases
- 29. The Role of the Physician in the Community
- 18. Skin and Subcutaneous Tissue
- 19. Developmental Anomalies of Face, Mouth and Jaws
- 20. Oropharyngeal Cancer
- 21. Disorders of Salivary Glands
- 22. Endocrine General Surgery: Thyroid and Parathyroid
- 23. Adrenal Glands
- 24. Breast
- 25. Cardio-thoracic General Surgery - Chest - Heart and Lungs
- 26. Abdomen
- 27. Urinary System
- 28. Penis, Testis, and Scrotum
- 29. Lids and Adnexa, Orbit
- 30. Conjunctiva
- 31. Corneas
- 32. Sclera
- 33. Iris and Anterior Chamber
- 34. Lens
- 35. Retina and Optic Nerve
- 36. Miscellaneous
- 25. Amenorrhea
- 26. Genital Injuries and Fistulae
- 27. Genital Infections
- 28. Infertility
- 29. Uterine Fibroids
- 30. PCOS and Hirsutism
- 31. Uterine Prolapse
- 32. Menopause
- 33. Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix
- 34. Benign and Malignant Diseases of the Uterus and the Ovaries
- 35. Obstetrics and Gynecological Skills-I
- 36. Obstetrics and Gynecological Skills-II
- 37. Obstetrics and Gynecological Skills-III
- 38. Should Observe

General Surgery

- 1. Metabolic Response to Injury
- 2. Shock
- 3. Blood and Blood Components
- 4. Burns
- 5. Wound Healing and Wound Care
- 6. Surgical Infections
- 7. Surgical Audit and Research
- 8. Ethics
- 9. Investigation of Surgical Patient
- 10. Pre, Intra, and Post-op Management
- 11. Anaesthesia and Pain Management
- 12. Nutrition and Fluid Therapy
- 13. Transplantation
- 14. Basic Surgical Skills
- 15. Biohazard Disposal
- 16. Minimally Invasive General Surgery
- 17. Trauma

Obstetrics and Gynaecology

- 1. Demographic and Vital Statistics
- 2. Anatomy of the Female Reproductive Tract (Basic Anatomy and Embryology)
- 3. Physiology of Conception
- 4. Development of the Fetus and the Placenta
- 5. Preconception Counselling
- 6. Diagnosis of Pregnancy
- 7. Maternal Changes in Pregnancy
- 8. Antenatal Care
- 9. Complications of Pregnancy
- 10. Antepartum Hemorrhage
- 11. Multiple Pregnancies
- 12. Medical Disorders in Pregnancy
- 13. Labour
- 14. Abnormal Labour
- 15. Operative Obstetrics
- 16. Complications of the Third Stage
- 17. Lactation
- 18. Care of the Newborn
- 19. Normal and Abnormal Puerperium
- 20. Medical Termination of Pregnancy
- 21. Contraception
- 22. Vaginal Discharge
- 23. Normal and Abnormal Puberty
- 24. Abnormal Uterine Bleeding

Pediatrics

- 1. Normal Growth and Development
- 2. Common Problems Related to Growth
- 3. Common Problems Related to Devt.-1 (Developmental Delay, Cerebral Palsy)
- 4. Common Problems Related to Development-2 (Autism, ADHD)
- 5. Common Problems Related to Behavior
- 6. Adolescent Health and Common Problems Related to Adolescent Health
- 7. To Promote and Support Optimal Breastfeeding for Infants
- 8. Complementary Feeding
- 9. Normal Nutrition, Assessment, and Monitoring
- 10. Provide Nutritional Support, Assessment and Monitoring for Common Nutritional Problems
- 11. Obesity in Children
- 12. Micronutrients in Health and Disease-1: (Vitamins ADEK, B Complex, and C)
- 13. Micronutrients in Health and Disease -2: (Iron, Iodine, Calcium, Magnesium)
- 14. Poisoning
- 15. Fluid and Electrolyte Balance
- 16. Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
- 17. The National Health Programs, NHM
- 18. National Programs, RCH - Universal Immunizations Program
- 19. Care of the Normal Newborn, and High Risk Newborn

UG Medical Course Curriculum (According to CBME)

20. Genito-Urinary System
21. Approach to and Recognition of a Child with Possible Rheumatologic Problem
22. Cardiovascular System - Heart Diseases
23. GIT and Hepatobiliary System
24. Pediatric Emergencies - Common Pediatric Emergencies
25. Respiratory System
26. Anemia and Other Hemato-oncologic Disorders in Children
27. Systemic Pediatrics - Central Nervous System
28. Allergic Rhinitis, Atopic Dermatitis, Bronchial Asthma
29. Chromosomal Abnormalities
30. Endocrinology
31. Vaccine-Preventable Diseases Tuberculosis
32. The Role of the Physician in the Community

Orthopaedics

1. Skeletal Trauma, Poly Trauma
2. Fractures
3. Musculoskeletal Infection
4. Skeletal Tuberculosis
5. Rheumatoid Arthritis and Associated Inflammatory Disorders
6. Degenerative Disorders
7. Metabolic Bone Disorders
8. Poliomyelitis
9. Cerebral Palsy
10. Bone Tumors
11. Peripheral Nerve Injuries
12. Congenital Lesions
13. Procedural Skills
14. Counselling Skills

Dermatology, Venerology and Leprosy

1. Acne
2. Vitiligo
3. Papulosquamous Disorders
4. Lichen Planus
5. Scabies
6. Pediculosis

7. Fungal Infections
8. Common Viral Infections
9. Leprosy
10. Sexually Transmitted Diseases
11. HIV
12. Eczemas, Erythroderma, and Cutaneous Adverse Drug Reactions
13. Vesiculo-bullous Lesions
14. Urticaria Angioedema
15. Pyoderma

Anaesthesiology

1. Anaesthesiology as a Speciality
2. Cardiopulmonary Resuscitation
3. Preoperative Evaluation and Medication
4. General Anaesthesia
5. Regional Anaesthesia
6. Post-Anaesthesia Recovery
7. Intensive Care Management
8. Pain and Its Management
9. Fluids
10. Patient Safety
11. Oxygen Delivery Devices, Oxygen Therapy and Airway Management

Psychiatry

1. Introduction to Psychiatry
2. Organic Psychiatric Disorders
3. Psychoactive Substance Use Disorders and Other Addiction Disorders
4. Schizophrenia and other Psychotic Disorders
5. Depressive Disorders
6. Bipolar Disorders
7. Anxiety Disorders (Including OCD)
8. Stress-Related Disorders
9. Psychosexual and Gender Identity Disorders
10. Psychiatric Disorders in Childhood and Adolescence
11. Intellectual Disability Disorder
12. Psychiatric Emergencies
13. Therapeutics

Radiodiagnosis

1. General Principles of Imaging Equipment
2. Rational Choice of Modality for a Patient
3. Safety and Legal Requirements
4. Interdisciplinary Communication and Interaction
5. Image Interpretation
6. Patient Preparation for Imaging Competencies
7. Role of Imaging in Hospital Specialties

Medisys Edutech also offers:

Course

Early Clinical Exposure Modules

Small Group Teaching Modules

Bed-side Clinics

Certifiable Skills

DOAP / Laboratory Sessions

OSCEs for Clinical Procedures

AETCOM

Bedside Learning

Clinical Reasoning: Virtual Patient Encounters

Common Surgical Procedures

Pathology Museums

Features

- Designed to meet the requirements of undergraduate education in many parts of the world. Audio-video lectures: With illustrations, animations, charts, procedure videos, etc.
- Combines imaginatively written notes, audio-visual narratives, procedure demonstrations, group discussions, interactive exercises, field and desk assignments, common cases, questions for self-assessments, etc.
- Flexible deployment: Online, offline, or in a combination that is suited to the context.
- Also highly appropriate for on-campus use in lecture halls and libraries, by faculty and by students, for formal/didactic teaching or small group learning, for remedial/supplementary education or exam-prep.

Appendix B



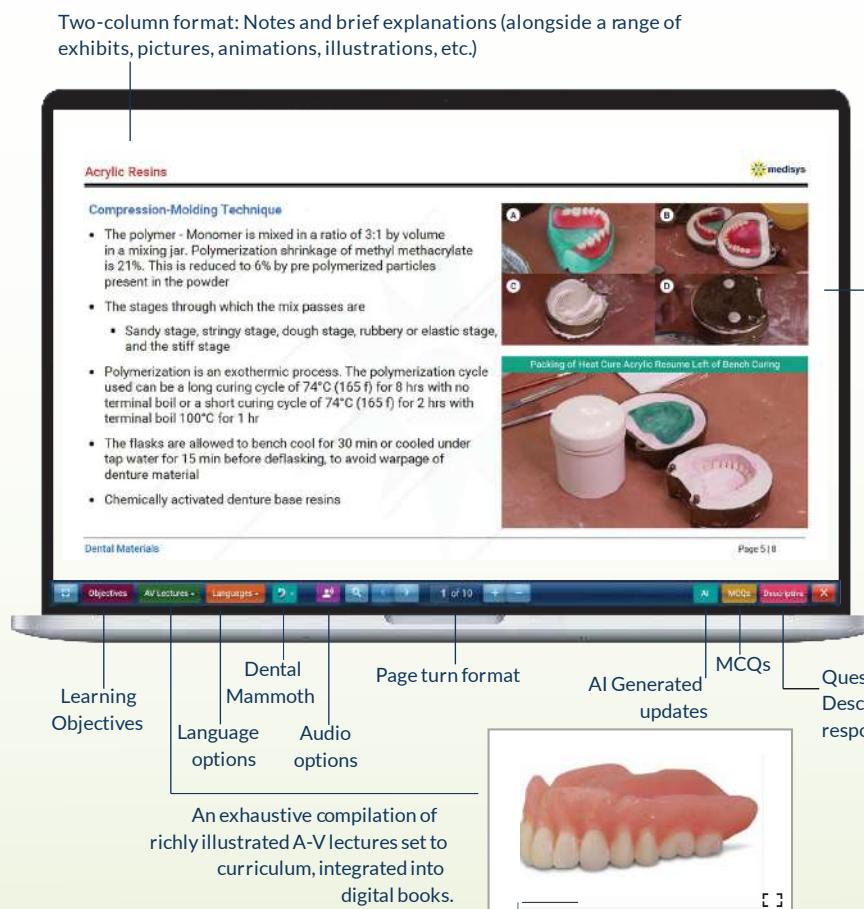
DENTAL (UG)

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 illustrations, 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 well as supplementary education.
- Coverage includes extensive notes, a wide range of exhibits including illustrations, histology, histopathology images, animations, video clips, etc.

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



Acrylic Resins

Compression-Molding Technique

- The polymer - Monomer is mixed in a ratio of 3:1 by volume in a mixing jar. Polymerization shrinkage of methyl methacrylate is 21%. This is reduced to 6% by pre polymerized particles present in the powder
- The stages through which the mix passes are
 - Sandy stage, stringy stage, dough stage, rubbery or elastic stage, and the stiff stage
- Polymerization is an exothermic process. The polymerization cycle used can be a long curing cycle of 74°C (165 f) for 8 hrs with no terminal boil or a short curing cycle of 74°C (165 f) for 2 hrs with terminal boil 100°C for 1 hr
- The flasks are allowed to bench cool for 30 min or cooled under tap water for 15 min before deflasking, to avoid warpage of denture material
- Chemically activated denture base resins

Dental Materials

Page 5 | 8

Objectives AV Lectures Languages Dental Mammoth Language options Audio options Page turn format AI Generated updates MCQs Questions for Descriptive responses

An exhaustive compilation of richly illustrated A-V lectures set to curriculum, integrated into digital books.

- 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, and Allied Health will be ready in 2026.

UG Dental Course List

BDS I

General Anatomy

1. Introduction to Human Anatomy
2. Face and Temple
3. Cranial Cavity
4. Orbital Cavity
5. Parotid Gland
6. Temporomandibular 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 Paranasal 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 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

General Pathology

1. Introduction to Pathology
2. Cell Structure and Functions
3. Cell Injury Causes, Types, and Mechanisms
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 the Oral Cavity
25. Cysts of the Oral and Maxillofacial Region
26. Benign and Malignant Tumors
27. Diseases of Bone and Bone Tumors
28. Diseases of Salivary Glands
29. Diseases of the Cardiovascular System
30. Disease of the 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

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

BDS II

General Microbiology

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

UG Dental Course List

Pharmacology

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

8. Endocrinology
9. Gastrointestinal Tract
10. Renal System
11. Nutritional Disorders
12. Critical Care

11. Diseases of the 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. Hematological Diseases
20. Oral Manifestations of HIV
21. Pre-cancerous Lesions
22. Inflammation
23. Defense Mechanism of Oral Tissues
24. Diseases of the Maxillary Sinus
25. Periodontal Diseases
26. Traumatic and Regressive Lesions of the Oral Cavity

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

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 the Lymphatic System
13. Diseases of the 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

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 the 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 the Oral Cavity
20. Allergic Reactions
21. Foci of Oral Infection and their III effects on General Health

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

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

UG Dental Course List

22. Management of Dental Problems in Medically Compromised Persons
23. Neuromuscular Disorders
24. Genodermatoses
25. Physical and Chemical Injuries
26. Pre-cancerous Lesions and 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 the 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. Morphological 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 Orthodontics
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

Medisys Edutech also offers:

Course	No. of Modules
Cadaver Dissection Videos and Anatomy Spotters	42
Tooth Carving Demonstrations	14
Pre-Clinical Practical Demonstrations	135
Clinical DOAPs	174
Interactive Exercises	215

Features

- Designed to meet the requirements of undergraduate education in many parts of the world.
- Combines imaginatively written notes, audio-visual narratives, procedure demonstrations, group discussions, interactive exercises, field and desk assignments, common cases, questions for self-assessments, etc.
- Flexible deployment: Online, offline, or in a combination that is suited to the context.
- Also highly appropriate for on-campus use in lecture halls and libraries, by faculty and by students, for formal/didactic teaching or small group learning, for remedial/supplementary education or exam-prep.

Appendix C



NURSING (UG)

UG Nursing

Digital educational materials covering the complete undergraduate (semester-based) curriculum of the Indian Nursing Council. Peer-reviewed, periodically updated, customizable packages. Available now in English and other languages. Built to meet the requirements of in-class instruction, assessments, and self-directed learning. An LMS platform to facilitate swift updates, easy deployment, and essential customisation.

Key features of our UG Nursing package

Audio-visual Sessions with comprehensive notes

- Produced and reviewed by Subject Matter Experts.
- Text and audio, enhanced by using illustrations, video clips, animations, line diagrams, charts, etc. Short lectures and podcasts to cover all topics.
- Q&A with explanatory notes, interactive exercises, assignments, etc., to support teachers, as well as to encourage active learning by the student.



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

Unit - III: Management of Nursing Services in the Hospital and Standard Norms and INC Nurse-Patient Ratio (1985)

The norms based on hospital beds are

- Chief nursing officer - 1:500 beds
- Nursing superintendent - 1:400 beds or above
- Deputy nursing superintendent - 1:300 beds and 1 additional for every 200 beds
- Assistant nursing superintendent - 1:100-150 beds or 3-4 wards
- Ward sister - 1:25-30 beds or 1 ward 30% leave reserve
- Staff nurse - 1 for 3 beds in teaching hospital in a general hospital, 1 for 5 beds in nonteaching hospital; 30% leave reserve
- 1 extra nurse for research function
- OPD and emergency - 1:100 patients
- ICU - 1:1
- For 250 beds, 1 Infection control nurse

Learning objectives Language options Audio options Exhibits (illustrations and animations) embedded into the digital book MCQs Questions for Self-assessment

An exhaustive compilation of richly illustrated AV lectures set to curriculum, integrated into the digital books.



Nursing Procedures, Care Plans

- The complete range of essential and specialized procedures, recorded on mannequins / healthy volunteers/patients, accompanied by notes covering standard practices, common errors and consequences, viva questions, log books, OSCEs, etc.
- Similar UG packages for MBBS, BDS, and BHMS are also available
- UG packages in Physiotherapy, Ayurveda, and Allied Health will be ready in 2026

BSc (Nursing) (New Semester-based Curriculum)

Semester - I

English

1. Communication
2. Introduction to LSRGW
3. Attentive Listening
4. Speaking - Effective Conversation
5. Reading
6. Writing Skills
7. LSRW Skills

Applied Physiology

1. General Physiology - Basic Concepts
2. Respiratory System
3. Digestive System
4. Circulatory and Lymphatic System
5. Blood
6. The Endocrine System
7. The Sensory Organs
8. Musculoskeletal System
9. Renal System
10. The Reproductive System
11. Nervous System

Applied Anatomy

1. Introduction to Anatomical Terms and Organization of the Human Body
2. The Respiratory System
3. The Digestive System
4. The Circulatory and Lymphatic System
5. The Endocrine System
6. The Sensory Organs
7. The Musculoskeletal System
8. The Renal System
9. The Reproductive System
10. The Nervous System

Applied Psychology

1. Introduction
2. Biological Basis of Behavior - Introduction
3. Mental Health and Mental Hygiene
4. Developmental Psychology
5. Personality
6. Cognitive Process
7. Motivation and Emotional Processes
8. Psychological Assessment and Tests - Introduction
9. Application of Soft Skill
10. Self-Empowerment

Applied Sociology

1. Introduction
2. Social Structure
3. Culture
4. Family and Marriage
5. Social Stratification
6. Social Organization and Disorganization
7. Clinical Sociology

Nursing Foundation - I

1. Introduction to Health and Illness
2. Health Care Delivery Systems
3. History of Nursing and Nursing as a Profession
4. Communication and Nurse-Patient Relationship
5. Documentation and Reporting
6. Vital Signs
7. Equipment and Linen
8. Introduction to Infection Control in Clinical Setting: Infection
9. Comfort, Rest, Sleep, and Pain
10. Promoting Safety in the Health Care Environment
11. Hospital Admission and Discharge
12. Mobility and Immobility
13. Patient Education
14. First Aid

BSc (Nursing) (New Semester-based Curriculum)

Semester - II

Applied Biochemistry

1. Carbohydrates
2. Lipids
3. Proteins
4. Clinical Enzymology
5. Acid Base Maintenance
6. Heme Catabolism
7. Organ Function Tests
8. Immunochemistry

Applied Nutrition and Dietetics

1. Introduction to Nutrition
2. Carbohydrates
3. Proteins
4. Fats
5. Vitamins
6. Minerals
7. Balanced Diet
8. Nutritional Deficiency Disorders
9. Therapeutic Diets
10. Cookery Rules and Preservation of Nutrients
11. Nutrition Assessment and Nutrition Education
12. National Nutritional Programs and Role of Nurses
13. Food Safety

Nursing Foundation - II

1. Health Assessment
2. The Nursing Process
3. Nutritional Needs
4. Hygiene
5. Elimination Needs
6. Diagnostic Testing
7. Oxygenation Needs
8. Fluid, Electrolyte, and Acid-Base Balances
9. Administration of Medications
10. Sensory Needs
11. Care of Terminally ill, Death and Dying
12. Self-Concept
13. Sexuality
14. Stress and Adaptation Introductory Concepts
15. Concepts of Cultural Diversity and Spirituality
16. Nursing Theories - Introduction

Health/Nursing Informatics and Technology

1. Introduction to Computer Applications for Patient Care Delivery System and Nursing Practice
2. Principles of Health Informatics
3. Information Systems in Healthcare
4. Shared Care and Electronic Health Records
5. Patient Safety and Clinical Risk
6. Clinical Knowledge and Decision Making
7. eHealth - Patients and the Internet
8. Using Information in Healthcare Management
9. Information Law and Governance in Clinical Practice
10. Healthcare Quality and Evidence Based Practice

BSc (Nursing) (New Semester-based Curriculum)

Semester - III

Applied Microbiology and Infection Control Including Safety

Section A: Applied Microbiology

1. Introduction
2. General Characteristics of Microbes
3. Pathogenic Organisms
4. Immunity

Section B: Infection Control and Safety

1. HAI (Hospital Acquired Infection)
2. Isolation Precautions and Use of Personal Protective Equipment (PPE)
3. Hand Hygiene
4. Disinfection and Sterilization
5. Specimen Collection (Review)
6. BMW (Bio-Medical Waste Management)
7. Antibiotic Stewardship
8. Patient Safety Indicators
9. IPSG (International Patient Safety Goals)
10. Safety Protocol
11. Employee Safety Indicators

Pharmacology - I

1. Introduction to Pharmacology
2. Pharmacology of Commonly Used Antiseptics and Disinfectants
3. Drugs Acting on the GI System
4. Drugs Acting on the Respiratory System
5. Drugs used in the Treatment of Cardiovascular System and Blood Disorders
6. Drugs used in the Treatment of Endocrine System Disorders
7. Drugs used in the Treatment of the Integumentary System
8. Drugs used in Treatment of Communicable Disease (Common Infections, Infestations)

Pathology - I

1. Introduction
2. Special Pathology - Pathology changes in Disease Conditions of Selected Systems
3. Hematological Tests for the Diagnosis of Blood Disorders

Adult Health Nursing - I: With Integrated Pathophysiology (Including BCLS Module)

1. Introduction
2. Intraoperative Care
3. Nursing Care of Patient with Common Signs and Symptoms and Management
4. Nursing Management of Patients with Respiratory Problems
5. Nursing Management of Patients with Disorders of the Digestive System
6. Nursing Management of Patients with Cardiovascular Problems
7. Nursing Management of Patients with Disorders of Blood
8. Nursing Management of Patients with Disorders of the Endocrine System
9. Nursing Management of Patients with Disorders of the Integumentary System
10. Nursing Management of Patients with Musculoskeletal Problems
11. Nursing Management of Patients with Communicable Diseases

BSc (Nursing) (New Semester-based Curriculum)

Semester - IV

Pharmacology - II

1. Drugs used in Disorders of the Ear, Nose, Throat, and Eye
2. Drugs used on the Urinary System
3. Drugs Acting on the Nervous System
4. Drugs used for Hormonal Disorders and Supplementation, Contraception, and Medical Termination of Pregnancy
5. Drugs used for Pregnant Women During Antenatal, Labour, and Postnatal Period
6. Miscellaneous
7. Introduction to Drugs Used in Alternative Systems of Medicine
8. Fundamental Principles of Prescribing

Pathology - II and Genetics Pathology - II

1. Special Pathology
2. Clinical Pathology

Genetics

1. Introduction
2. Maternal, Prenatal, and Genetic Influences on the Development of Defects and Diseases
3. Genetic Testing in the Neonates and Children
4. Genetic Conditions of Adolescents and Adults
5. Services Related to Genetics

Adult Health Nursing - II

1. Nursing Management of Patients with Disorders of the Ear, Nose, and Throat
2. Nursing Management of Patients with Disorders of the Eye
3. Nursing Management of Patients with Kidney and Urinary Problems
4. Nursing Management of Disorders of the Male Reproductive System
5. Nursing Management of Patient with Burns, Reconstructive and Cosmetic Surgery
6. Nursing Management of Patients with Neurological Disorders
7. Nursing Management of Patients with Immunological Problems
8. Nursing Management of Patients with Oncological Conditions
9. Nursing Management of Patients in Emergency and Disaster Situations
10. Nursing Care of the Elderly
11. Nursing Management of Patients in Critical Care Units
12. Nursing Management of Patients with Occupational and Industrial Disorders

Professionalism, Professional Values and Ethics Including Bioethics

1. Professionalism
2. Professional Values
3. Ethics and Bioethics

BSc (Nursing) (New Semester-based Curriculum)

Semester - V

Child Health Nursing - I

1. Introduction: Modern Concepts of Child Care
2. The Healthy Child
3. Nursing Care of the Neonate
4. Integrated Management of Neonatal and Childhood Illnesses
5. Nursing Management in Common Childhood Diseases
6. Childhood Emergencies

Mental Health Nursing - I

1. Introduction
2. Principles and Concepts of Mental Health Nursing
3. Mental Health Assessment
4. Therapeutic Communication and Nurse-Patient Relationship
5. Treatment Modalities and Therapies used in Mental Disorders
6. Nursing Management of Patients with Schizophrenia and Other Psychotic Disorders
7. Nursing Management of Patients with Mood Disorders
8. Nursing Management of Patients with Neurotic, Stress-Related and Somatisation Disorders

Community Health Nursing - I

1. Concepts of Community Health and Community Health Nursing
2. Health Care Planning and Organization of Health Care at Various Levels
3. Environmental Science, Environmental Health, and Sanitation
4. Nutrition Assessment and Nutrition Education
5. Communication Management and Health Education
6. Community Health Nursing Approaches, Concepts, Roles, and Responsibilities of Community Health Nursing Personnel
7. Assisting Individuals and Families to Promote and Maintain their Health
8. Introduction to Epidemiology Approaches and Processes
9. Communicable Diseases and National Health Programs
10. Non-Communicable Diseases and National Health Program (NCD)
11. School Health Services

Educational Technology Nursing Education

1. Introduction and Theoretical Foundations
2. Assessment and Planning
3. Implementation
4. Teaching in the Clinical Setting
Teaching Methods
5. Educational/Teaching Media
6. Assessment/Evaluation Methods /Strategies
7. Guidance/Academic Advising, Counseling, and Discipline
8. Ethics and Evidence-Based Teaching (EBT) in Nursing Education

Introduction to Forensic Nursing and Indian Laws

1. Forensic Science
2. Forensic Nursing
3. Forensic Team
4. Introduction of the Indian Constitution
5. Sources of Laws and Law making Powers

BSc (Nursing) (New Semester-based Curriculum)

Semester - VI

Child Health Nursing - II

1. Cardiovascular System
2. Orthopedic Disorders
3. Management of Behavior and Social Problems in Children

Mental Health Nursing - II

1. Nursing Management of Patients with Substance Use Disorders
2. Nursing Management of Patients with Personality and Sexual Disorders
3. Nursing Management of Behavioural and Emotional Disorders Occurring During Childhood and Adolescence
4. Nursing Management of Organic Brain Disorders
5. Psychiatric Emergencies and Crisis Intervention
6. Legal Issues in Mental Health Nursing
7. Community Mental Health Nursing

Nursing Management and Leadership

1. Health Care and Development of Nursing Services in India
2. Management Basics Applied to Nursing
3. Planning Nursing Services
4. Organizing
5. Staffing (Human Resource Management)
6. Directing and Leading
7. Leadership
8. Controlling
9. Organizational Behavior and Human Relations
10. Financial Management
11. Nursing Informatics/ Information Management - Review
12. Personal Management - Review
13. Establishment of Nursing Educational Institutions
14. Planning and Organizing
15. Staffing and Student Selection
16. Directing and Controlling
17. Professional Considerations
18. Professional Advancement

Midwifery/Obstetrics and Gynecology Nursing - I

1. Introduction to Midwifery
2. Anatomy and Physiology of Human Reproductive System and Conception (Maternal, Fetal & Newborn Physiology)
3. Assessment and Management of Normal Pregnancy (Antenatal)
4. Physiology, Management and Care During Labour
5. Postpartum Care/Ongoing Care of Women
6. Assessment and Ongoing Care of Normal Neonates
7. Family Welfare Services

BSc (Nursing) (New Semester-based Curriculum)

Semester - VII

Community Health Nursing - II

1. Management of Common Conditions and Emergencies Including First Aid
2. Reproductive, Maternal, Newborn, Child and Adolescent Health (Review from Obg Nursing and Application in Community Setting)
3. Demography, Surveillance, and Interpretation of Data
4. Population and its Control
5. Occupational Health
6. Geriatric Health Care
7. Mental Health Disorders
8. Health Management Information System (HMIS)
9. Management of Delivery of Community Health Services
10. Leadership, Supervision, and Monitoring
11. Disaster Management
12. Bio-Medical Waste Management
13. Health Agencies

Nursing Research and Statistics

1. Research and Research Process
2. Research Problem/Question
3. Review of Literature
4. Research Approaches and Designs
5. Sampling and Data Collection
6. Analysis of Data
7. Introduction to Statistics
8. Communication and Utilization of Research

Midwifery/Obstetric and Gynecology Nursing - II

1. Recognition and Management of Problems during Pregnancy
2. Recognition and Management of Abnormal Labour
3. Recognition and Management of Postnatal Problems
4. Assessment and Management of High-Risk Newborn (Review)
5. Assessment and Management of Women with Gynecological Disorders

Medisys Edutech also offers:

Course	No. of Modules
Nursing Procedures	156
Nursing Clinical Care Plans	142

Features

- Designed to meet the requirements of undergraduate education in many parts of the world.
- Combines imaginatively written notes, audio-visual narratives, procedure demonstrations, group discussions, interactive exercises, field and desk assignments, common cases, questions for self-assessments, etc.
- Flexible deployment: Online, offline, or in a combination that is suited to the context.
- Also highly appropriate for on-campus use in lecture halls and libraries, by faculty and by students, for formal/didactic teaching or small group learning, for remedial/supplementary education or exam-prep.

Appendix D



Continuing Medical Education (CME)

Continuing Medical Education (CME)

Continuing Education for Health Sector Professionals

- A comprehensive range of refresher courses for Medical Officers and Community Health Officers in a Public Health System, and those in Family Medicine Practice.
- Blended learning approach - Text and AV sessions, virtual field trips, interactive exercises, and scenario-based learning and skills advancement in mannikin centres and hospital-based assignments to be facilitated.
- Swift reviews of basics (select topics from UG studies)
- Content designed for practice/improvement
- Surveillance, screening, and wellness focus
- Curated sessions and virtual visits
- Flexible schedules, easy access

Topic listings, scope, and sequence as set by Govt. of India, Ministry of Health (MO/CHO courses)

Certificate Courses for Medical Officers (MOs) in Public Health Services

1. Elderly Care for Medical Officers
2. Management of Common Emergencies, Burns, and Trauma for Medical Officers
3. ENT Care for Medical Officers
4. Eye Care for Medical Officers
5. Mental, Neurological, and Substance Use(MNS) Disorders Care for Medical Officers
6. Oral Care for Medical Officers
7. Palliative Care for Medical Officers
8. Prevention, Control, and Population Level Screening of Hypertension, Diabetes, and Common Cancer for Medical Officers

(A PG diploma can be awarded to those successfully completing all of these courses)

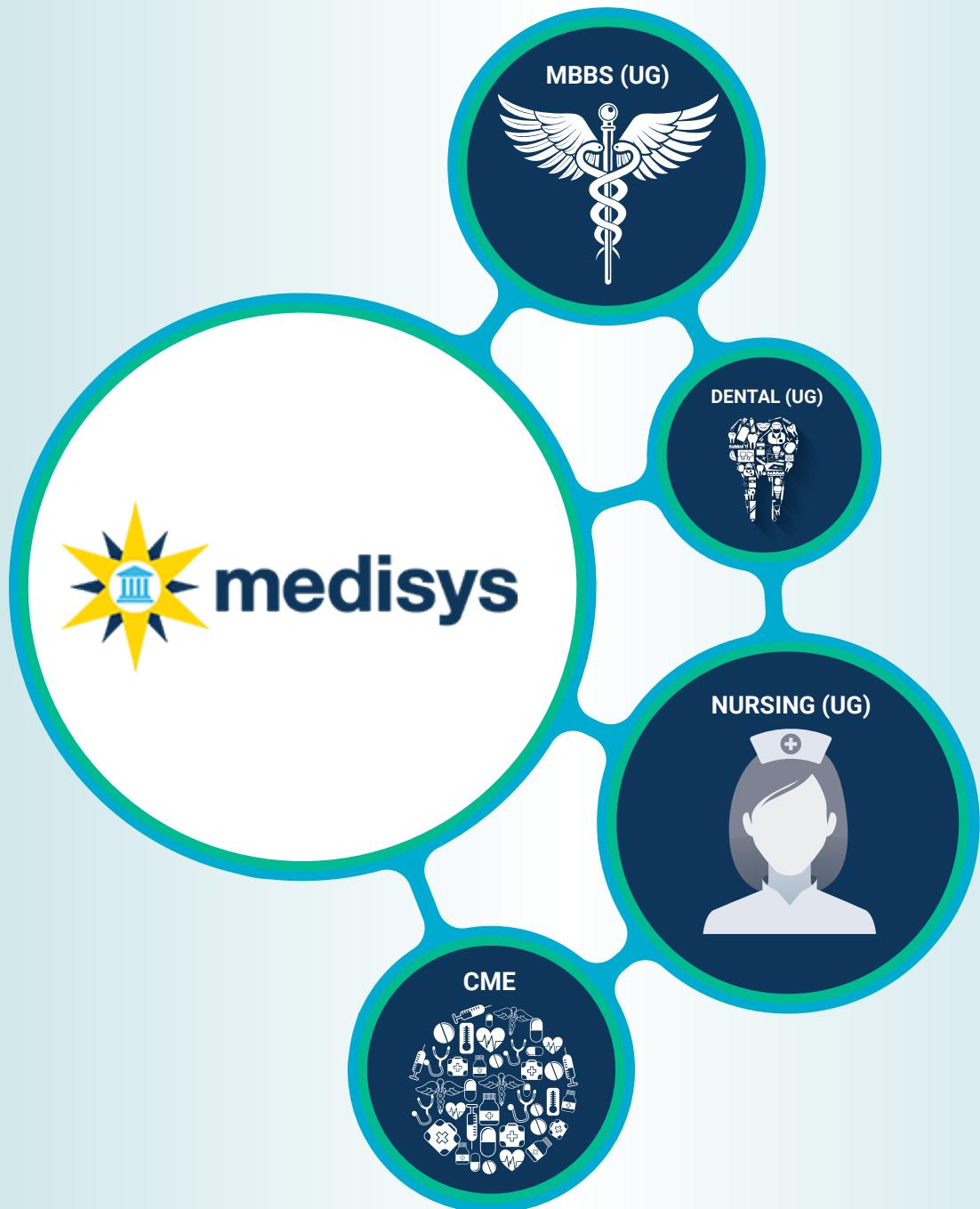
Certificate Courses for Community Health Officers (CHOs) in Public Health Services

1. Elderly Care for Community Health Officers
2. Management of Common Emergencies, Burns, and Trauma for Community Health Officers
3. ENT Care for Community Health Officers
4. Eye Care for Community Health Officers
5. Mental, Neurological, and Substance Use (MNS) Disorders Care for Community Health Officers
6. Oral Care for Community Health Officers
7. Palliative Care for Community Health Officers
8. Management of Communicable Diseases for Community Health Officers

(Note: For those with a nursing degree at the UG level, working in a small public health clinic primary care centre)

Effortless Learning

Endless Possibilities



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