

UG Medical

Content, platforms and services to comprehensively support undergraduate medical education. Built as per NMC specified 'CBME' guidelines. AV presentations, notes in text & audio, in English and other languages. Also included: Lab sessions, procedure demonstrations, interactive exercises, skills development modules with log sheets, rubrics, and audio explanations, bedside learnings, assessments with answer keys and explanatory notes, assignments of various kinds. 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.

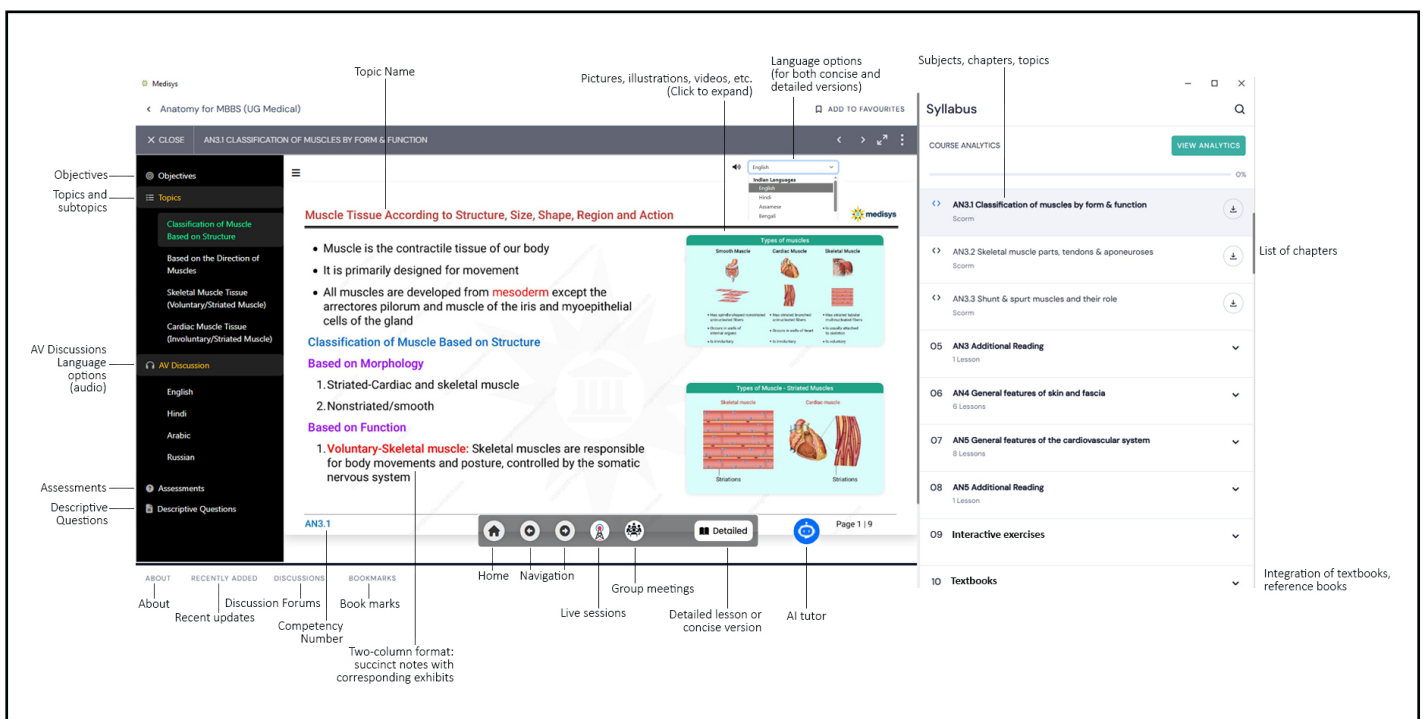


Flexible deployment options

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 displays the Medisys UG Medical app interface. Key components include:

- Left Sidebar:** Contains navigation options such as 'Objectives', 'Topics and subtopics', 'AV Discussions', 'Language options (audio)', and 'Assessments'.
- Main Content Area:** Shows a lesson titled 'AN3.1 CLASSIFICATION OF MUSCLES BY FORM & FUNCTION'. The content includes:
 - Muscle Tissue According to Structure, Size, Shape, Region and Action:**
 - Muscle is the contractile tissue of our body
 - It is primarily designed for movement
 - All muscles are developed from **mesoderm** except the arrectores pilorum and muscle of the iris and myoepithelial cells of the gland
 - Classification of Muscle Based on Structure:**
 - Based on Morphology:
 - Striated-Cardiac and skeletal muscle
 - Nonstriated/smooth
 - Based on Function:
 - Voluntary-Skeletal muscle:** Skeletal muscles are responsible for body movements and posture, controlled by the somatic nervous system
 - Types of muscles:** A diagram showing Smooth Muscle, Cardiac Muscle, and Skeletal Muscle with their respective characteristics.
 - Table of Muscle - Striated Muscles:** A table comparing Skeletal muscle and Cardiac muscle across various parameters like location, structure, and function.
- Right Sidebar:** Displays a 'Syllabus' section with a list of chapters and topics, including 'AN3.1 Classification of muscles by form & function', 'AN3.2 Skeletal muscle parts, tendons & aponeuroses', and 'AN3.3 Shunt & spurt muscles and their role'.
- Bottom Navigation Bar:** Includes icons for 'Home', 'Navigation', 'Group meetings', 'Live sessions', 'Detailed lesson or concise version', and 'All tutor'.

DOAP Modules

Our DOAP modules provide comprehensive, curriculum-aligned practical training across essential procedures, dissections, and foundational skills directly by eminent faculty. The DOAP library ensures students observe, understand, and practice core procedural skills systematically.



Certifiable Skills and Basic Clinical procedure Modules



These modules focus on clinical subject-specific procedures that students must master for competency certification. Each module offers deeper clinical narration on indications, variations across age and comorbidities, precautions, common errors and consequences, and viva-oriented explanations—building real examination confidence and practical competence. Skills and procedures are recorded with leading academic experts, ensuring accuracy, standardization, and real clinical relevance in every module.

OSCE/OSPE & Rubric-Based Assessment Training

Our OSCE/OSPE modules replicate structured, station-based clinical assessments used in medical examinations. Supported by detailed rubrics, students learn expected performance standards, safety steps, communication cues, and scoring criteria, ensuring objective preparation for both university exams and real-world skill evaluation.



Assessment Framework



The course incorporates a wide range of CBME-aligned assessments—including analytical MCQs, explanatory questions, and formative and summative evaluations. These tools reinforce theoretical understanding, strengthen clinical reasoning, and support continuous learning throughout the UG curriculum.

AETCOM Modules

AETCOM offers practical insights into real-world ethical dilemmas, communication challenges, and professionalism in everyday clinical situations. Through scenario-based learning, students develop empathy, sound decision-making, and patient-centered communication, strengthening the core attitudes and behaviours expected in practice.



Interactive Exercises & Recap Podcasts



Our platform features interactive visual recall exercises, drag-and-drop activities—match-the-following tasks with quick topic recap podcasts that enhance engagement and deepen understanding. These tools strengthen memory retention, reinforce key concepts, and promote active learning, helping students revise effectively and grasp lessons with greater clarity.

Foundation Course

The Foundation Course equips first-year students with essential orientation to medical education, professionalism, communication skills, and an understanding of the healthcare system. Through digital modules covering basic sciences, early skills, structured introductory content, students gain the grounding needed to transition smoothly into the journey.



Early Clinical Exposure (ECE)



ECE modules introduce students to the clinical relevance of pre-clinical subjects through case scenarios, symptoms, signs, and real clinical contexts. By linking lab concepts to patient-centered understanding early in their training, students develop clinical thinking skills and feel more prepared for ward postings and patient interaction during later phases.

Clinical Grids Across Levels of Care

Our course includes comprehensive clinical grids that map commonly encountered cases across primary, secondary, and tertiary levels of care. These grids help students understand how diseases present and progress across healthcare systems, supporting better diagnostic reasoning, case management insight, and an integrated systems-based approach to learning.



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 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. Thoracic Cage
21. Heart and Pericardium
22. Mediastinum
23. Lungs and Trachea
24. Thorax
25. Skull Osteology
26. Scalp
27. Face and Parotid Region
28. Posterior Triangle of Neck
29. Cranial Cavity
30. Orbit
31. Anterior Triangle
32. Temporal and Infratemporal Regions
33. Submandibular Region
34. Deep Structures in the Neck
35. Mouth, Pharynx and Palate
36. Cavity of Nose
37. Larynx
38. Tongue
39. Organs of Hearing and Equilibrium
40. Eyeball
41. Back Region
42. Head and Neck Joints, Histology, Development, Radiography and Surface Marking
43. Anterior Abdominal Wall
44. Posterior Abdominal Wall
45. Male External Genitalia
46. Abdominal Cavity
47. Pelvic Wall and Viscera
48. Perineum
49. Vertebral Column
50. Sectional Anatomy
51. Histology and Embryology
52. Osteology
53. Radiodiagnosis
54. Surface Marking
55. Meninges and CSF
56. Spinal Cord
57. Medulla Oblongata
58. Pons

59. Cerebellum
60. Midbrain
61. Cranial Nerve Nuclei and Cerebral Hemispheres
62. Ventricular System and Special Sensory Pathways
63. Histology and Embryology
64. Epithelium Histology
65. Connective Tissue Histology
66. Muscle Histology
67. Nervous Tissue Histology
68. Blood Vessels
69. Glands and Lymphoid Tissue
70. Bone and Cartilage
71. Integumentary System
72. Chromosomes
73. Patterns of Inheritance
74. Principle of Genetics, Chromosomal Aberrations and Clinical Genetics
75. Introduction to Embryology
76. Gametogenesis and Fertilization
77. 2nd Week of Development
78. 3rd to 8th Week of Development
79. Fetal Membranes
80. Prenatal Diagnosis
81. 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

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
11. Antimicrobial Resistance and Antimicrobial Stewardship

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 Evidences
13. Toxicology
14. Skills in Forensic Medicine and 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 Ear, Nose, Throat, Head and Neck
2. Clinical Skills
3. Diagnostic and Therapeutic in ENT

Ophthalmology

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

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 Acid Base Disorder
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

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
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

Obstetrics and Gynaecology

1. Demographic and Vital Statistics
2. Anatomy of the Female Reproductive Tract (Basic Anatomy & 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 in Nearly Pregnancy
10. Antepartum Haemorrhage
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 New Born
19. Normal and Abnormal Puerperium
20. Medical Termination of Pregnancy
21. Contraception
22. Vaginal Discharge
23. Normal and Abnormal Puberty
24. Abnormal Uterine Bleeding
25. Amenorrhoea
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

Pediatrics

1. Normal Growth and Development
2. Common Problems Related to Growth
3. Common Problems Related to Development-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 Breast Feeding 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 New Born, and High Risk New Born
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

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 Specialities

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

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

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

Course Administration platform (for all UG courses) integrated with content and question banks.

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