



# DENTISTRY 360



## About Us

Welcome to MHPPro Academy, India's premier online learning platform dedicated to advancing medical education for medical professionals and students. We specialize in providing high-quality, accredited courses across various medical disciplines, including Dentistry, Aesthetic Medicine, and more.

At MHPPro Academy, we are committed to empowering medical professionals and medical students with the latest knowledge and skills required to excel in their respective fields. Our goal is to bridge the gap between academic learning and real-world clinical practice through evidence-based online learning provided by leading experts in the field.

### Why Choose MHPPro Academy?

- **Expert-Led Curriculum:** Courses designed and delivered by renowned medical professionals and subject matter experts.
- **Accredited Programs:** Our courses are endorsed by prestigious medical associations and professional bodies.
- **Flexible Online Learning:** Study at your own pace with comprehensive video lectures, study notes, and quizzes.
- **Industry Recognition:** Certifications are recognized by leading medical associations, ensuring credibility and value.
- **Career Advancement:** Enhance your skills, earn recognized credentials, and boost your professional growth.



## Course Introduction

Dentistry 360 is a holistic and integrated course designed to provide aspiring dental professionals and students with a complete foundation across all critical domains of dental and medical sciences. This expert-curated program encompasses basic sciences, preclinical and clinical dentistry, ensuring a seamless learning journey from theory to practice. Ideal for BDS students, interns, and dental professionals seeking an all-in-one course for academic excellence, clinical confidence, and competitive exam preparation



## Learning Objectives:

- Understand the basic principles of human physiology, anatomy, and biochemistry related to dental health.
- Study the microscopic and macroscopic structures of oral tissues and their functions.
- Apply foundational scientific knowledge to clinical practice.
- Recognize the connection between systemic conditions and oral health.
- Develop critical thinking and problem-solving skills for clinical decision-making.
- Learn the role of microorganisms in oral health and disease prevention.
- Evaluate the properties and clinical uses of dental materials.
- Understand pharmacological principles and their application in dental care.
- Study the pathogenesis and clinical features of oral diseases.
- Acquire skills in trauma management and wound healing.
- Demonstrate knowledge across dental specialties such as oral surgery, periodontology, and orthodontics.
- Develop advanced skills in diagnosis, treatment planning, and clinical procedures.
- Apply evidence-based practices to enhance patient outcomes.
- Collaborate across disciplines to deliver comprehensive patient care.
- Provide empathetic, patient-centered care in diverse settings.
- Prepare for professional dental practice through clinical and ethical competence.

## Learning Outcomes:

- Demonstrate a solid foundation in physiology, anatomy, biochemistry, and oral histology relevant to dental practice.
- Apply theoretical knowledge effectively in clinical and simulated settings.
- Understand the impact of systemic conditions on oral health for holistic patient care.
- Identify, diagnose, and manage common oral diseases using evidence-based approaches.

- Evaluate and appropriately select dental materials for clinical use.
- Apply pharmacological principles in prescribing and managing dental treatments.
- Recognize and manage oral microbial infections and associated complications.
- Demonstrate surgical competence in oral and maxillofacial procedures.
- Manage trauma and wound healing in head and neck scenarios.
- Utilize advanced diagnostic and treatment planning skills across dental specialties.
- Collaborate across disciplines to deliver comprehensive, patient-centered care.
- Exhibit professionalism, ethical practice, and readiness for lifelong learning in dentistry.



# Who should take up this course?

BDS

MDS

DENTAL STUDENTS

DENTAL PROFESSIONALS

## Course Director



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## Course Authors



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# Curriculum

**Course Title: Dentistry 360**

**Module:**

**Chapter:**

**ORAL HISTOLOGY & DENTAL ANATOMY**

- Formulae of teeth, surfaces, line angles and point angles
- Anatomical land marks, chronology of teeth
- Evolution of teeth, comparative dental anatomy, tooth numbering system
- Difference between primary and permanent teeth
- Deciduous dentition
- Permanent dentition- 1
- Permanent dentition- 2
- Dental occlusion
- Development of teeth
- Enamel
- Dentin
- Pulp
- Cementum
- Bone
- Periodontal ligament
- Oral mucous membrane
- Salivary glands
- Teeth eruption and shedding
- TMJ
- Maxillary sinus

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### **BIOCHEMISTRY**

- Carbohydrates & its Metabolism
- Proteins
- Hemoglobin & plasma proteins
- Lipids
- Enzymes
- Vitamins- Fat Soluble Vitamins
- Vitamins- Water Soluble Vitamins
- Minerals- 1
- Minerals- 2
- Energy metabolism & nutrition
- Hormones
- Liver function & renal function test
- Inborn errors of metabolism

#### **ANATOMY & EMBRYOLOGY**

- Larynx
- Pharynx
- Posterior Triangles of head and neck
- Anterior Triangles of head and neck
- Orbit and lacrimal apparatus
- Parotid and infratemporal region
- Submandibular region
- Nasal septa & nasal cavity
- Embryology
- Brain & spinal cord
- Osteology
- Cranial Nerves
- Ear
- Muscles
- Vessels

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### PHYSIOLOGY

- Cellular physiology, Body fluids and Membrane transport
- Blood
- Cardio vascular system
- Excretory system
- Respiratory system
- GIT
- Vitamins & metabolism
- Endocrine
- Nerve & muscle
- Special senses

#### PHARMACOLOGY

- General pharmacology
- Drugs acting on ANS and CNS
- General anaesthesia
- Drugs acting on blood
- Drugs acting on Endocrine system
- NSAID
- Drugs for GIT disorders
- Antimicrobial drugs- sulfonamide, beta lactam
- Antimicrobial drugs- tetracyclines, macrolides
- Antimicrobial drugs- anti tubercular & anti-fungal
- Antimicrobial drugs- anti viral, anti- protozoal
- Chemotherapy
- Local anaesthesia

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### PHARMACOLOGY

- Drugs acting on CVS
- Diuretics
- Autacoids & vitamins
- Drugs acting on respiratory system
- Drugs in medical emergencies

#### MICROBIOLOGY

- Sterilization And Disinfection
- Microscopy & staining
- Immunology
- Bacteriology
- Culture media & methods
- Virology
- Mycology
- Protozoal infection
- Helminthic infection
- Septicaemia, Pyaemia, Toxaemia

#### GENERAL PATHOLOGY

- Cellular adaptation, injury and cellular death, amyloidosis
- Nutritional disorders & vitamin deficiencies
- Inflammation
- Immunity
- Wound healing
- Fluid and hemodynamic disorders
- Neoplasia
- Diseases of blood
- Disease of lymphoreticular tissues

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### GENERAL PATHOLOGY

- Systemic pathology – Part 1
- Systemic pathology – Part 2

#### DENTAL MATERIALS

- Structure & properties of dental materials
- Amalgam
- Dental composite resins & bonding agents
- Dental cements
- Dental polymers and denture base resins
- Dental ceramics
- Gypsum products
- Impression materials
- Direct filling gold
- Dental casting alloys
- Dental wax
- Finishing and polishing materials

#### GENERAL MEDICINE

- Physical & systemic examination
- Hematology
- Cardiovascular System
- Respiratory System
- Hepatology
- Endocrinology
- CNS
- GIT
- Renal system
- Infections

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### ORAL PATHOLOGY

- Developmental disturbances
- Abnormalities of teeth
- Odontogenic cysts
- Odontogenic tumours
- Epithelial pathology
- Soft tissue tumours
- Physical & chemical injuries
- Allergic & immunological diseases
- Dental caries
- Pulpal, periapical & periodontal diseases
- Bacterial, viral and fungal infections
- Diseases of bone 1
- Diseases of bone 2
- Diseases of skin
- Diseases of blood
- Diseases of nerves and muscles
- Diseases of salivary glands
- Oral manifestation of systemic diseases 1
- Oral manifestation of systemic diseases 2
- Forensic odontology

#### GENERAL SURGERY

- Wound Healing
- Infectious Diseases
- Shock, hemorrhag, and blood transfusion
- Tumors of head and neck
- Neoplasia

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### **GENERAL SURGERY**

- Trauma
- Cleft lip and palate
- Swelling & ulcers
- Diseases of pharynx and larynx
- Diseases of salivary glands
- Diseases of thyroid gland
- Arterial and venous disorders

#### **ORAL MEDICINE & RADIOLOGY**

- Radiation Biology
- Radiation physics
- Radiation safety & protection
- Types of films, grids intensifying screens & cassettes
- Processing of X-rays films
- Intraoral techniques
- CBCT, CT, MRI
- Normal anatomical landmarks
- Faulty radiographs

#### **PERIODONTA**

- Gingiva
- Cementum
- Alveolar bone
- Periodontal ligament 1
- Periodontal ligament 2
- Gingival diseases
- Periodontal diseases 1

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### PERIODONTA

- Periodontal diseases 2
- Periodontal instruments
- Ultrasonic and sonic. scaling  
ANTIINFECTIVE
- Gingival curettage
- Gingivectomy
- Periodontal surgery- flap
- Osseous surgery & mucogingival surgery
- Anti-infective therapy

#### PUBLIC HEALTH DENTISTRY

- Fluorides
- Indicators of health, patterns of disease
- Disease control and prevention
- Ethics in dentistry & dentist acts
- National health programs
- Indices
- Preventive dentistry- caries, PRR, ART
- Biomedical waste management
- Biostatistics
- Communicable and non-communicable diseases
- Epidemiology

#### ORTHODONTICS

- Growth and development
- Malocclusion
- Biomechanics
- Model analysis

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### **ORTHODONTICS**

- Cephalometric
- Orthodontic instrumentation
- Treatment planning
- Removable appliances
- Orthopaedic appliances
- Fixed appliances
- Lingual orthodontics
- Habit breaker appliances
- Preventive & interceptive procedures
- Myofunctional appliances

#### **ORAL SURGERY**

- Local Anaesthesia
- Conscious sedation
- Exodontia
- Impactions
- Orofacial clefts
- Cyst and tumours
- Oral malignancies
- Orofacial and Neck Infections
- Salivary Gland Disorders
- Middle third fractures
- Mandibular fractures
- TMJ
- Maxillary sinus
- Facial Neuropathology
- Preprosthetic surgery
- Orthognathic surgery

# Curriculum

## Course Title: Dentistry 360

### Module:

### Chapter:

#### PROSTHODONTIA

- Fixed partial denture-Indications and Contraindications, Types of FPD
- Parts of FPD, Pontics and Abutments
- Basic principles of tooth preparation, Gingival displacement, Occlusion
- Complete denture - Impression and Articulators
- Complete denture - Lab procedure
- Sequelae of wearing CD
- Relining and Rebasing & immediate dentures
- RPD-Sequel of partial edentulousness, supra eruption, Types and indications of RPD
- Classification of RPD
- Parts of RPD

#### PROSTHODONTIA

- Surveying, Path of insertion, Guiding planes
- Oral implants
- Maxillo facial prosthesis, veneers, over dentures
- Complete denture- diagnosis, anatomical landmarks
- Maxillo Mandibular Jaw Relation

#### CONSERVATIVE DENTISTRY & ENDODONTICS

- Instruments used in dentistry
- Fundamentals of tooth preparation
- Separators, retainers & matrices
- Amalgam restorations

# Curriculum

## Course Title: Dentistry 360

### Module:

#### **CONSERVATIVE DENTISTRY & ENDODONTICS**

### Chapter:

- Dental cements & pulp protection
- Gold restoration
- Cast metal restoration
- Composites
- Dentinal hypersensitivity
- Pin retained restoration and infection control
- Pulpal and periradicular pathology, Diagnostic aids
- Endodontic instruments
- Working length determination
- Shaping & cleaning of root canal
- Root canal irrigants, sealers & medicament
- Obturation
- Endodontic microbiology
- Endo-perio relationship
- Endodontic microsurgery and Laser in endodontics

#### **PEDODONTIA**

- Child psychology and behaviour management
- Conscious sedation
- Oral habit, serial extraction
- Paediatric endodontics- root canal morphology, pulp & periapical diseases
- Paediatric endodontics-pulp therapy, rotary endodontics
- ECC, rampant caries
- Stainless steel & anterior crowns
- Periodontal & gingival diseases
- LA, exodontia

# Curriculum

**Course Title: Dentistry 360**

**Module:**

**PEDODONTIA**

**Chapter:**

- Traumatology, minor oral surgery
- Cleft lip & palate
- Diseases of child
- Forensic pedodontics

# Certificate Sample

