

DENTAL SCIENCES • SPECIALIST TRAINING



NTHRYS

OPC PVT LTD

DENTAL SCIENCES • FELLOWSHIP TRAINING PROGRAMS

Oral & Maxillofacial Pathology & Microbiology

A complete specialist architecture for oral and maxillofacial pathologists and microbiologists — spanning histopathology techniques and immunohistochemistry, developmental, inflammatory, cystic and neoplastic pathology, salivary and bone pathology, mucocutaneous and systemic-linked disease, the full oral microbiology spectrum, and molecular, digital and AI-driven computational pathology. Every protocol is delivered hands-on on live laboratory and diagnostic equipment.

33

SUB-STREAMS

133

PROTOCOLS

960

HOURS

2026

EDITION

Sub-Streams at a Glance

This catalogue lists every Oral & Maxillofacial Pathology & Microbiology training protocol delivered at the NTHRYS Dental Sciences centre, organised under the **OP** department across 33 specialist sub-streams. Each protocol carries a unique code, a defined duration and a per-protocol fee, and may be combined into custom fellowship tracks. Protocols are pitched at practising specialists, postgraduates and digital-laboratory technologists.

STREAM	SUB-STREAM	FOCUS	N	HRS	VALUE
NDS-OP-GP	General & Oral Pathology Principles	Disease mechanisms and diagnostic basis	5	33	₹ 63,500
NDS-OP-HT	Histopathology Techniques & Tissue Processing	Grossing, processing and microtomy	5	35	₹ 70,000
NDS-OP-ST	Staining & Special Techniques	Routine and histochemical staining	4	25	₹ 50,000
NDS-OP-IH	Immunohistochemistry	Antibody-based diagnosis	4	31	₹ 68,000
NDS-OP-CY	Cytopathology & Exfoliative Cytology	Smear and aspiration diagnosis	4	28	₹ 56,000
NDS-OP-FZ	Frozen Section & Intraoperative Pathology	Rapid margin assessment	3	22	₹ 48,500
NDS-OP-DD	Developmental & Genetic Disorders	Congenital and syndromic pathology	3	20	₹ 40,000
NDS-OP-TA	Dental Anomaly Pathology	Tooth-structure and eruption defects	3	19	₹ 38,000
NDS-OP-IR	Inflammatory & Reactive Lesions	Hyperplastic and giant-cell lesions	3	21	₹ 42,000
NDS-OP-PA	Periapical & Pulpal Pathology	Endodontic-origin pathology	3	20	₹ 40,000
NDS-OP-OC	Odontogenic Cysts	Inflammatory and developmental cysts	4	28	₹ 58,500
NDS-OP-NC	Non-Odontogenic & Developmental Cysts	Fissural and pseudocysts	3	20	₹ 41,500
NDS-OP-OT	Odontogenic Tumours	Epithelial and mesenchymal tumours	5	37	₹ 85,000
NDS-OP-BT	Benign Soft-Tissue Tumours	Epithelial and mesenchymal benign tumours	4	26	₹ 54,000
NDS-OP-MT	Malignant Tumours & Oral Cancer Pathology	Carcinoma and metastatic disease	5	39	₹ 93,500
NDS-OP-SP	Epithelial Precancer & Carcinogenesis	Dysplasia and cancer biology	4	30	₹ 69,000
NDS-OP-MS	Mesenchymal & Bone Tumours	Sarcomas and round-cell tumours	4	30	₹ 69,000

Sub-Streams at a Glance *continued*

STREAM	SUB-STREAM	FOCUS	N	HRS	VALUE
NDS-OP-SG	Salivary Gland Pathology	Benign and malignant gland tumours	5	37	₹ 85,000
NDS-OP-BJ	Bone & Jaw Pathology	Fibro-osseous and metabolic lesions	4	29	₹ 64,000
NDS-OP-MU	Mucocutaneous & Vesiculobullous Pathology	Interface and bullous histopathology	4	30	₹ 66,000
NDS-OP-SY	Systemic-Disease Oral Pathology	Oral signs of systemic disease	4	26	₹ 54,000
NDS-OP-HE	Haematologic & Immune Pathology	Lymphoma and immune disease	4	29	₹ 64,000
NDS-OP-MB	General & Oral Microbiology	Microbiome and identification	4	26	₹ 50,000
NDS-OP-BC	Bacteriology & Culture Techniques	Culture and susceptibility	4	28	₹ 56,000
NDS-OP-VM	Virology & Oral Viral Disease	Viral diagnosis and disease	4	27	₹ 54,000
NDS-OP-MY	Mycology & Oral Fungal Disease	Fungal diagnosis and deep mycoses	4	27	₹ 54,000
NDS-OP-IM	Immunology & Host Defense	Mucosal immunity and diagnostics	4	28	₹ 62,000
NDS-OP-BF	Biofilm & Microbial Ecology	Plaque biofilm and control	4	27	₹ 54,000
NDS-OP-IC	Infection Control & Sterilization	Cross-infection prevention	4	25	₹ 48,000
NDS-OP-MO	Molecular Pathology & Diagnostics	PCR, sequencing and markers	5	46	₹ 1,94,000
NDS-OP-DP	Digital Pathology & Whole-Slide Imaging	Digital workflow and telepathology	4	33	₹ 1,38,500
NDS-OP-AI	AI & Computational Pathology	Automated diagnosis and discovery	4	39	₹ 1,75,500
NDS-OP-FO	Forensic Odontology & Identification	Age estimation and DVI	5	39	₹ 1,09,500
Full department — 33 sub-streams			133	960	₹ 23,15,000

How the Programme is Built

Fees are tiered by clinical and technological complexity — from advanced core restorative protocols through implant, maxillofacial, digital, robotic and bioengineered streams. Per-protocol fees range from ₹ 10,000 to ₹ 45,000, with the complete department representing ₹ 23,15,000 of specialist training across 960 hours.

HOW TO READ A CODE

NDS – OP – GP – 01

NDS

Nthrys Dental Sciences

OP

Oral & Maxillofacial Pathology & Microbiology dept

GP

Sub-stream

01

Protocol number

Every protocol is delivered hands-on on live clinical and digital-laboratory equipment, with structured assessment and case documentation. Sub-streams may be enrolled individually or bundled into themed fellowship pathways (e.g. *Full-Arch Implant, Digital & Robotic, Maxillofacial Rehabilitation*).

General & Oral Pathology Principles

Disease mechanisms and diagnostic basis

5
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-GP-01	Principles of Oral Pathology	Disease-mechanism fundamentals.	7 hrs	₹ 13,500
NDS-OP-GP-02	Cellular Injury & Adaptation	Pathologic-response basics.	6 hrs	₹ 11,500
NDS-OP-GP-03	Inflammation & Repair	Healing and inflammatory processes.	7 hrs	₹ 13,500
NDS-OP-GP-04	Neoplasia Fundamentals	Tumour-biology principles.	7 hrs	₹ 13,500
NDS-OP-GP-05	Diagnostic Pathology Workflow	Specimen-to-diagnosis pipeline.	6 hrs	₹ 11,500

Histopathology Techniques & Tissue Processing

Grossing, processing and microtomy

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-HT01	Tissue Fixation & Grossing	Specimen handling and grossing.	7 hrs	₹ 14,000
NDS-OP-HT02	Tissue Processing & Embedding	Paraffin-processing technique.	7 hrs	₹ 14,000
NDS-OP-HT03	Microtomy & Section Cutting	Section preparation.	8 hrs	₹ 16,000
NDS-OP-HT04	Decalcification Techniques	Hard-tissue processing.	7 hrs	₹ 14,000
NDS-OP-HT05	Artefacts & Troubleshooting	Section-quality control.	6 hrs	₹ 12,000

Staining & Special Techniques

Routine and histochemical staining

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-ST-01	Routine H&E Staining	Standard staining protocol.	6 hrs	₹ 12,000
NDS-OP-ST-02	Special Stains (PAS, Reticulin)	Connective and fungal stains.	7 hrs	₹ 14,000
NDS-OP-ST-03	Histochemical Techniques	Enzyme and carbohydrate staining.	7 hrs	₹ 14,000
NDS-OP-ST-04	Mounting & Slide Preparation	Coverslipping and archiving.	5 hrs	₹ 10,000

Immunohistochemistry

Antibody-based diagnosis

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-IH-01	Immunohistochemistry Principles	Antigen-antibody detection.	8 hrs	₹ 17,500
NDS-OP-IH-02	IHC Protocol & Antigen Retrieval	Staining-workflow mastery.	8 hrs	₹ 17,500
NDS-OP-IH-03	Tumour-Marker Panels	Diagnostic IHC panels.	8 hrs	₹ 17,500
NDS-OP-IH-04	Interpretation & Controls	Result validation.	7 hrs	₹ 15,500

Cytopathology & Exfoliative Cytology

Smear and aspiration diagnosis

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-CY-01	Exfoliative Cytology	Smear preparation and reading.	7 hrs	₹ 14,000
NDS-OP-CY-02	Fine-Needle Aspiration Cytology	FNAC technique and interpretation.	8 hrs	₹ 16,000
NDS-OP-CY-03	Liquid-Based Cytology	Modern cytology preparation.	7 hrs	₹ 14,000
NDS-OP-CY-04	Cytologic Diagnosis & Reporting	Cytology-report writing.	6 hrs	₹ 12,000

Frozen Section & Intraoperative Pathology

Rapid margin assessment

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-FZ-01	Frozen-Section Technique	Intraoperative tissue processing.	8 hrs	₹ 17,500
NDS-OP-FZ-02	Surgical-Margin Assessment	Margin evaluation.	7 hrs	₹ 15,500
NDS-OP-FZ-03	Rapid Intraoperative Diagnosis	Time-critical reporting.	7 hrs	₹ 15,500

Developmental & Genetic Disorders

Congenital and syndromic pathology

3
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-DD-01	Developmental Oral Disorders	Congenital-anomaly pathology.	7 hrs	₹ 14,000
NDS-OP-DD-02	Genetic Syndromes & Oral Findings	Syndromic-disease pathology.	7 hrs	₹ 14,000
NDS-OP-DD-03	Inherited Mucosal Conditions	Genodermatoses with oral signs.	6 hrs	₹ 12,000

Dental Anomaly Pathology

Tooth-structure and eruption defects

3
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-TA-01	Anomalies of Tooth Number & Size	Developmental dental anomalies.	6 hrs	₹ 12,000
NDS-OP-TA-02	Enamel & Dentine Defect Pathology	Structural-defect pathology.	7 hrs	₹ 14,000
NDS-OP-TA-03	Eruption & Resorption Pathology	Eruptive-disorder pathology.	6 hrs	₹ 12,000

Inflammatory & Reactive Lesions

Hyperplastic and giant-cell lesions

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-IR-01	Reactive Hyperplastic Lesions	Fibroma, epulis and granuloma.	7 hrs	₹ 14,000
NDS-OP-IR-02	Inflammatory Mucosal Lesions	Mucosal inflammatory pathology.	7 hrs	₹ 14,000
NDS-OP-IR-03	Giant-Cell & Reparative Lesions	Giant-cell-lesion pathology.	7 hrs	₹ 14,000

Periapical & Pulpal Pathology

Endodontic-origin pathology

3
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-PA-01	Pulpal Pathology	Pulpitis and pulp-disease pathology.	7 hrs	₹ 14,000
NDS-OP-PA-02	Periapical Granuloma & Cyst	Apical-lesion pathology.	7 hrs	₹ 14,000
NDS-OP-PA-03	Periapical Abscess & Osteitis	Inflammatory periapical disease.	6 hrs	₹ 12,000

Odontogenic Cysts

Inflammatory and developmental cysts

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-OC-01	Radicular & Residual Cysts	Inflammatory odontogenic cysts.	7 hrs	₹ 14,500
NDS-OP-OC-02	Dentigerous Cyst	Developmental odontogenic cyst.	7 hrs	₹ 14,500
NDS-OP-OC-03	Odontogenic Keratocyst	OKC pathology and behaviour.	8 hrs	₹ 17,000
NDS-OP-OC-04	Other Developmental Odontogenic Cysts	Less-common cysts.	6 hrs	₹ 12,500

Non-Odontogenic & Developmental Cysts

Fissural and pseudocysts

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-NC-01	Nasopalatine & Fissural Cysts	Non-odontogenic cysts.	7 hrs	₹ 14,500
NDS-OP-NC-02	Pseudocysts of the Jaw	Aneurysmal and traumatic bone cysts.	7 hrs	₹ 14,500
NDS-OP-NC-03	Soft-Tissue Cysts	Dermoid, thyroglossal and others.	6 hrs	₹ 12,500

Odontogenic Tumours

Epithelial and mesenchymal tumours

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-OT-01	Ameloblastoma	Epithelial odontogenic tumour.	8 hrs	₹ 18,500
NDS-OP-OT-02	Odontoma & Odontogenic Hamartomas	Mixed odontogenic lesions.	7 hrs	₹ 16,000
NDS-OP-OT-03	Odontogenic Myxoma & Fibroma	Mesenchymal odontogenic tumours.	7 hrs	₹ 16,000
NDS-OP-OT-04	Calcifying & Adenomatoid Tumours	CEOT and AOT pathology.	8 hrs	₹ 18,500
NDS-OP-OT-05	Malignant Odontogenic Tumours	Odontogenic-malignancy pathology.	7 hrs	₹ 16,000

Benign Soft-Tissue Tumours

Epithelial and mesenchymal benign tumours

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-BT-01	Squamous Papilloma & Epithelial Tumours	Benign epithelial tumours.	6 hrs	₹ 12,500
NDS-OP-BT-02	Fibrous & Connective Tumours	Benign mesenchymal tumours.	7 hrs	₹ 14,500
NDS-OP-BT-03	Vascular & Neural Tumours	Haemangioma and neurofibroma.	7 hrs	₹ 14,500
NDS-OP-BT-04	Lipoma & Other Soft-Tissue Tumours	Miscellaneous benign tumours.	6 hrs	₹ 12,500

Malignant Tumours & Oral Cancer Pathology

Carcinoma and metastatic disease

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-MT-01	Oral Squamous Cell Carcinoma	OSCC pathology and grading.	9 hrs	₹ 21,500
NDS-OP-MT-02	Variants of Oral Carcinoma	Verrucous and spindle-cell carcinoma.	8 hrs	₹ 19,000
NDS-OP-MT-03	Carcinoma Staging & Margins	Pathologic staging.	7 hrs	₹ 17,000
NDS-OP-MT-04	Metastatic Tumours to Oral Region	Secondary-tumour pathology.	7 hrs	₹ 17,000
NDS-OP-MT-05	Sarcomas of the Oral Region	Soft-tissue and bone sarcomas.	8 hrs	₹ 19,000

Epithelial Precancer & Carcinogenesis

Dysplasia and cancer biology

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-SP-01	Epithelial Dysplasia Grading	Precancer histopathology.	8 hrs	₹ 18,500
NDS-OP-SP-02	Carcinogenesis & Molecular Pathways	Cancer-development biology.	8 hrs	₹ 18,500
NDS-OP-SP-03	Field Cancerisation Concepts	Multi-focal-disease pathology.	7 hrs	₹ 16,000
NDS-OP-SP-04	Premalignant-Lesion Histopathology	OPMD microscopic features.	7 hrs	₹ 16,000

Mesenchymal & Bone Tumours

Sarcomas and round-cell tumours

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-MS-01	Osteogenic & Cartilaginous Tumours	Bone-forming tumours.	8 hrs	₹ 18,500
NDS-OP-MS-02	Ewing & Round-Cell Tumours	Small-round-cell pathology.	8 hrs	₹ 18,500
NDS-OP-MS-03	Soft-Tissue Sarcoma Pathology	Mesenchymal-malignancy pathology.	7 hrs	₹ 16,000
NDS-OP-MS-04	Neuroectodermal Tumours	MNTI and related lesions.	7 hrs	₹ 16,000

Salivary Gland Pathology

Benign and malignant gland tumours

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-SG-01	Salivary Pathology Principles	Gland-disease fundamentals.	7 hrs	₹ 16,000
NDS-OP-SG-02	Pleomorphic Adenoma & Benign Tumours	Benign salivary tumours.	8 hrs	₹ 18,500
NDS-OP-SG-03	Mucoepidermoid & Adenoid Cystic	Malignant salivary tumours.	8 hrs	₹ 18,500
NDS-OP-SG-04	Inflammatory & Obstructive Pathology	Sialadenitis pathology.	7 hrs	₹ 16,000
NDS-OP-SG-05	Salivary Cytology & FNAC	Diagnostic salivary cytology.	7 hrs	₹ 16,000

Bone & Jaw Pathology

Fibro-osseous and metabolic lesions

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-BJ-01	Fibro-Osseous Lesions	Dysplasia and ossifying lesions.	8 hrs	₹ 17,500
NDS-OP-BJ-02	Giant-Cell Lesions of the Jaw	Central giant-cell pathology.	7 hrs	₹ 15,500
NDS-OP-BJ-03	Metabolic Bone Disease	Paget's and metabolic lesions.	7 hrs	₹ 15,500
NDS-OP-BJ-04	Osteomyelitis & Osteonecrosis	Infective and necrotic bone pathology.	7 hrs	₹ 15,500

Mucocutaneous & Vesiculobullous Pathology

Interface and bullous histopathology

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-MU-01	Lichen Planus & Lichenoid Pathology	Interface-mucositis histopathology.	7 hrs	₹ 15,500
NDS-OP-MU-02	Pemphigus & Pemphigoid Pathology	Vesiculobullous histopathology.	8 hrs	₹ 17,500
NDS-OP-MU-03	Direct Immunofluorescence	DIF technique and interpretation.	8 hrs	₹ 17,500
NDS-OP-MU-04	Mucosal-Disease Microscopy	Mucosal-pathology diagnosis.	7 hrs	₹ 15,500

Systemic-Disease Oral Pathology

Oral signs of systemic disease

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-SY-01	Systemic-Disease Oral Pathology	Oral signs of systemic disease.	7 hrs	₹ 14,500
NDS-OP-SY-02	Endocrine & Metabolic Pathology	Endocrine oral manifestations.	7 hrs	₹ 14,500
NDS-OP-SY-03	Nutritional-Deficiency Pathology	Deficiency-related lesions.	6 hrs	₹ 12,500
NDS-OP-SY-04	Drug-Induced & Iatrogenic Lesions	Medication-related pathology.	6 hrs	₹ 12,500

Haematologic & Immune Pathology

Lymphoma and immune disease

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-HE-01	Haematologic Oral Manifestations	Anaemia and leukaemia oral signs.	7 hrs	₹ 15,500
NDS-OP-HE-02	Lymphoma & Plasma-Cell Disease	Haematolymphoid pathology.	8 hrs	₹ 17,500
NDS-OP-HE-03	Langerhans & Histiocytic Disease	Histiocytosis pathology.	7 hrs	₹ 15,500
NDS-OP-HE-04	Immune-Mediated Oral Disease	Autoimmune oral pathology.	7 hrs	₹ 15,500

General & Oral Microbiology

Microbiome and identification

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-MB-01	Oral Microbiome & Ecology	Microbial-community fundamentals.	7 hrs	₹ 13,500
NDS-OP-MB-02	Microscopy & Identification	Microbial-identification methods.	7 hrs	₹ 13,500
NDS-OP-MB-03	Sampling & Diagnostic Workflow	Specimen-collection protocols.	6 hrs	₹ 11,500
NDS-OP-MB-04	Microbiology Laboratory Safety	Biosafety and handling.	6 hrs	₹ 11,500

Bacteriology & Culture Techniques

Culture and susceptibility

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-BC-01	Bacterial Culture Techniques	Aerobic and anaerobic culture.	8 hrs	₹ 16,000
NDS-OP-BC-02	Antibiotic Susceptibility Testing	Sensitivity-assay methods.	7 hrs	₹ 14,000
NDS-OP-BC-03	Caries & Periodontal Bacteriology	Disease-specific microbiology.	7 hrs	₹ 14,000
NDS-OP-BC-04	Endodontic Microbiology	Canal-microbiology assessment.	6 hrs	₹ 12,000

Virology & Oral Viral Disease

Viral diagnosis and disease

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-VM-01	Oral Viral Diseases	Herpes, HPV and coxsackie pathology.	7 hrs	₹ 14,000
NDS-OP-VM-02	Viral Diagnostics	PCR and serology for oral viruses.	7 hrs	₹ 14,000
NDS-OP-VM-03	HIV & Oral Viral Manifestations	HIV-related oral pathology.	7 hrs	₹ 14,000
NDS-OP-VM-04	Emerging Viral Infections	Novel-virus oral relevance.	6 hrs	₹ 12,000

Mycology & Oral Fungal Disease

Fungal diagnosis and deep mycoses

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-MY-01	Oral Fungal Diseases	Candidiasis and deep mycoses.	7 hrs	₹ 14,000
NDS-OP-MY-02	Fungal Diagnostics & Culture	Mycology-laboratory methods.	7 hrs	₹ 14,000
NDS-OP-MY-03	Opportunistic & Deep Mycoses	Mucormycosis and aspergillosis.	7 hrs	₹ 14,000
NDS-OP-MY-04	Antifungal Susceptibility	Resistance assessment.	6 hrs	₹ 12,000

Immunology & Host Defense

Mucosal immunity and diagnostics

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-IM-01	Innate & Adaptive Immunity	Immune-system fundamentals.	7 hrs	₹ 15,500
NDS-OP-IM-02	Oral Mucosal Immunology	Mucosal-defence mechanisms.	7 hrs	₹ 15,500
NDS-OP-IM-03	Hypersensitivity & Allergy	Oral-allergic-reaction pathology.	7 hrs	₹ 15,500
NDS-OP-IM-04	Immunodiagnostics	Serologic and immune testing.	7 hrs	₹ 15,500

Biofilm & Microbial Ecology

Plaque biofilm and control

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-BF-01	Dental Biofilm Architecture	Plaque-biofilm structure.	7 hrs	₹ 14,000
NDS-OP-BF-02	Biofilm-Mediated Disease	Caries and perio biofilm role.	7 hrs	₹ 14,000
NDS-OP-BF-03	Microbial Quorum Sensing	Microbial-communication biology.	7 hrs	₹ 14,000
NDS-OP-BF-04	Anti-Biofilm Strategies	Biofilm-control approaches.	6 hrs	₹ 12,000

Infection Control & Sterilization

Cross-infection prevention

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-IC-01	Infection-Control Principles	Cross-infection prevention.	6 hrs	₹ 11,500
NDS-OP-IC-02	Sterilization & Disinfection	Instrument-processing methods.	7 hrs	₹ 13,500
NDS-OP-IC-03	Sterilization Monitoring & QA	Process-validation protocols.	6 hrs	₹ 11,500
NDS-OP-IC-04	Clinic Biosafety & Waste	Biomedical-waste management.	6 hrs	₹ 11,500

Molecular Pathology & Diagnostics

PCR, sequencing and markers

5
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-MO-01	Molecular Diagnostics Principles	PCR and sequencing fundamentals.	9 hrs	₹ 38,000
NDS-OP-MO-02	PCR & Real-Time PCR	Nucleic-acid amplification.	9 hrs	₹ 38,000
NDS-OP-MO-03	Next-Generation Sequencing	NGS in oral diagnostics.	10 hrs	₹ 42,000
NDS-OP-MO-04	FISH & Molecular Cytogenetics	In-situ molecular methods.	9 hrs	₹ 38,000
NDS-OP-MO-05	Molecular Tumour Markers	Predictive and prognostic markers.	9 hrs	₹ 38,000

Digital Pathology & Whole-Slide Imaging

Digital workflow and telepathology

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-DP-01	Whole-Slide Imaging	Digital-slide scanning.	8 hrs	₹ 33,500
NDS-OP-DP-02	Digital Pathology Workflow	Image-management pipeline.	8 hrs	₹ 33,500
NDS-OP-DP-03	Telepathology & Remote Diagnosis	Distributed-pathology workflow.	8 hrs	₹ 33,500
NDS-OP-DP-04	Image Analysis & Quantification	Computational-image metrics.	9 hrs	₹ 38,000

AI & Computational Pathology

Automated diagnosis and discovery

4
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-AI-01	AI in Histopathology	Automated lesion classification.	10 hrs	₹ 45,000
NDS-OP-AI-02	Deep-Learning Cancer Detection	Algorithmic-malignancy screening.	10 hrs	₹ 45,000
NDS-OP-AI-03	Computational Biomarker Discovery	Data-driven marker mining.	10 hrs	₹ 45,000
NDS-OP-AI-04	AI-Assisted Reporting & Validation	Workflow integration.	9 hrs	₹ 40,500

Forensic Odontology & Identification

Age estimation and DVI

5
PROTOCOLS

CODE	PROTOCOL	DESCRIPTION	DURATION	FEE (INR)
NDS-OP-FO-01	Forensic Odontology Principles	Identification fundamentals.	8 hrs	₹ 22,500
NDS-OP-FO-02	Dental Age Estimation	Histologic and radiographic ageing.	8 hrs	₹ 22,500
NDS-OP-FO-03	Bite-Mark Analysis	Bite-mark documentation.	8 hrs	₹ 22,500
NDS-OP-FO-04	DNA & Molecular Identification	Forensic-molecular methods.	8 hrs	₹ 22,500
NDS-OP-FO-05	Mass-Disaster Identification	DVI dental protocols.	7 hrs	₹ 19,500

ENROL • MASTER • LEAD

Fellowship-Grade Oral & Maxillofacial Pathology & Microbiology Training

Every protocol in this catalogue is delivered as supervised hands-on training on working clinical and digital-laboratory equipment — spanning instrumentation, advanced technique, digital and robotic workflows, biomaterials and case documentation. Protocols combine into custom fellowship tracks tailored to individual specialists or institutional programmes.

- 33 specialist sub-streams
- 133 training protocols
- 960 total training hours
- ₹ 23,15,000 full-department value

NTHRYS OPC PVT LTD

DENTAL SCIENCES • ORAL PATHOLOGY & MICROBIOLOGY TRAINING CENTRE