

NTHRYS

OPC PVT LTD

CATALOGUE 05 • NBMT

Motif, Domain & Functional Site Analysis

A complete industrial catalogue of hands-on training modules in motif and domain analysis — from pattern formalism and signature databases to regulatory motif discovery, functional site and modification prediction, targeting signals, disorder and linear motifs, proteome-scale scanning and evidence-documented functional annotation. Every module is issued against its own controlled protocol, contact-hour allocation and published fee.

59 PROTOCOL-BACKED MODULES • 10 CATEGORY STREAMS
1578 CONTACT HOURS • 2026 EDITION

59

MODULES

10

STREAMS

1578

HOURS

59

PROTOCOLS

Program Categories at a Glance

This catalogue lists every motif, domain and functional-site method our training programs are equipped to operate and teach, organised into 10 technology streams. Each module carries a unique product code, a controlled protocol document, an individually assessed contact-hour allocation and its own published fee. No two protocols are priced alike — duration and fee follow the analytical depth, scanning load and assessment weight of that specific module.

STREAM	CATEGORY	FOCUS DESCRIPTION	MODULES	HOURS	DAYS	BUNDLE (INR)
NBMT-FD	Motif Representation & Pattern Formalism	Consensus, regex, matrices & match statistics	6	136	25	41,100
NBMT-PS	Protein Signature & Pattern Databases	PROSITE, PRINTS, Pfam, SMART & CDD	6	144	26	43,600
NBMT-DM	Protein Domain Analysis & Architecture	Boundaries, architectures, repeats & inference	6	156	28	48,100
NBMT-DN	DNA Regulatory Motifs & Binding Sites	TFBS matrices, scanning, discovery & enrichment	6	172	30	53,500
NBMT-FS	Functional Site & Residue Prediction	Catalytic, binding & cofactor site identification	6	170	30	52,700
NBMT-PT	Post-Translational Modification Sites	Phospho, glyco, ubiquitin & cleavage prediction	6	156	28	48,300
NBMT-SG	Signals, Targeting & Membrane Topology	Secretion, localisation & topology prediction	6	158	29	48,900
NBMT-DS	Disorder, Low Complexity & Linear Motifs	Disorder prediction, SLiMs & propensity analysis	5	124	22	38,200
NBMT-SC	Scanning, Pipelines & Batch Annotation	InterProScan, custom libraries & FDR control	6	192	34	60,100
NBMT-AP	Applied Functional Annotation	Reports, proteome annotation, variants & QC	6	170	30	53,000
Complete NBMT catalogue			59	1578	282	372,700

HOW TO READ A MODULE CODE

NBMT – FD – 01

NBMT
Nthrys Bioinformatics catalogue — Motif, Domain & Functional Site Analysis

FD
Category stream code

01
Module number within the stream

HOW TO READ A PROTOCOL REFERENCE

PRT/NBMT/FD/01

PRT
Controlled protocol held in the training SOP register

NBMT/FD/01
Maps one-to-one to the module code alongside

Bundle figures are the discounted price for enrolling in every module of that stream together. Individual module hours and fees are printed on each category page. All fees exclude applicable GST.

Every Module Is a Controlled Protocol

There is no flat course fee in this catalogue. Each module is written up as its own protocol document, timed against the work it actually contains, and priced on that basis — contact hours, algorithmic and compute load, number of tools operated and the depth of the assessment task.

CONTENTS OF EVERY PRT DOCUMENT

01

Scope & competency statement

What the trainee will be able to do on completion, mapped to the module code.

02

Resource inventory

Tools, versions, reference databases and datasets recorded before start.

03

Stepwise procedure

Numbered operations with decision points, parameters and expected intermediates.

04

Worked reference exercise

A supplied query and subject set with the correct output for self-verification.

05

Acceptance criteria

The result a trainee must reproduce for the protocol to be signed as complete.

06

Failure modes & troubleshooting

Known error states, misleading hits and how each is resolved.

07

Assessment task & marking

The independent task, its weighting and the pass threshold.

08

Completion record

Trainer sign-off, date, hours logged and certificate serial entry.

MODULE DURATION RANGE

16 – 40 hours

Allocated per protocol, not per tier. A scoring-concepts module runs 16 hours; profile-profile remote homology detection runs 40.

MODULE FEE RANGE

INR 5,600 – 14,800

Set individually against each protocol. Iterative profile search, genome-scale alignment and pipeline construction carry the highest compute and supervision load.

1578

TOTAL HOURS

282

TOTAL DAYS

59

PROTOCOLS

ENROLMENT OPTION	SCOPE	HOURS	FEE (INR)	SAVING
Single Module	Any one module code, priced as printed on its category page	16 – 40	5,600 – 14,800	—
Stream Bundle	Every module within one category stream	124 – 192	38,200 – 60,100	15%
Core Signature Track	Streams FD, PS, DM, DN, FS — 30 modules	778	219,300	22%
Professional Track	Streams FD through DS — 47 modules	1216	317,100	28%
Complete NBMT Catalogue	All 10 streams — 59 modules, 59 protocols	1578	372,700	35%

WHAT THE MODULE FEE INCLUDES

— Workstation access

— Issued protocol

— Reference datasets

— Certification

— Post-training support

ENROLMENT & PAYMENT TERMS

— Registration

— Taxes

— Live-online mode

— Concessions

— Scheduling

— Validity

01

CATEGORY • NBMT-FD

Motif Representation & Pattern Formalism

Consensus, regex, matrices & match statistics

6

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-FD-01	Consensus Sequences & Degenerate Codes IUPAC coding, ambiguity & consensus limitations.	PRT/NBMT/FD/01	16 HOURS	03 DAYS	5,600
NBMT-FD-02	Regular Expressions for Biological Patterns Pattern syntax, anchoring & controlled matching.	PRT/NBMT/FD/02	24 HOURS	04 DAYS	8,500
NBMT-FD-03	PWM / PSSM Representation & Thresholds Matrix construction, log-odds scoring & cutoffs.	PRT/NBMT/FD/03	28 HOURS	05 DAYS	9,900
NBMT-FD-04	Information Content, Logos & Motif Comparison Entropy measures & matrix-to-matrix similarity.	PRT/NBMT/FD/04	22 HOURS	04 DAYS	7,800
NBMT-FD-05	Statistical Significance of Motif Matches p-values, E-values & background model choice.	PRT/NBMT/FD/05	26 HOURS	05 DAYS	9,400
NBMT-FD-06	Motif Database Formats & Interconversion MEME, JASPAR & PROSITE format handling.	PRT/NBMT/FD/06	20 HOURS	04 DAYS	7,100

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 136 HOURS • 25 DAYS

~~48,300~~ 41,100 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-PS-01	PROSITE Patterns & Profiles Pattern versus profile entries & scan interpretation.	PRT/NBMT/PS/01	24 HOURS	04 DAYS	8,500
NBMT-PS-02	PRINTS Fingerprints & Multi-Motif Signatures Ordered motif sets & fingerprint scoring.	PRT/NBMT/PS/02	20 HOURS	04 DAYS	7,100
NBMT-PS-03	Pfam & InterPro Signature Integration Member database integration & entry hierarchy.	PRT/NBMT/PS/03	28 HOURS	05 DAYS	10,000
NBMT-PS-04	SMART & Domain Architecture Resources Signalling and extracellular domain annotation.	PRT/NBMT/PS/04	22 HOURS	04 DAYS	7,800
NBMT-PS-05	Family-Level Signatures & Curated Collections PIRSF, TIGRFAM/NCBIfam & full-length families.	PRT/NBMT/PS/05	24 HOURS	04 DAYS	8,600
NBMT-PS-06	CDD & Conserved Domain Searching Position-specific score matrices & hit curation.	PRT/NBMT/PS/06	26 HOURS	05 DAYS	9,300

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 144 HOURS • 26 DAYS

~~51,300~~ 43,600 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-DM-01	Domain Definition, Boundaries & Modularity Structural versus sequence domains & boundary calls.	PRT/NBMT/DM/01	24 HOURS	04 DAYS	8,600
NBMT-DM-02	Domain Assignment Workflows Single-protein assignment & conflict resolution.	PRT/NBMT/DM/02	26 HOURS	05 DAYS	9,400
NBMT-DM-03	Domain Architecture Comparison Across Families Architecture strings, gain/loss & family patterns.	PRT/NBMT/DM/03	30 HOURS	05 DAYS	10,900
NBMT-DM-04	Repeat Detection & Tandem Domain Analysis Ankyrin, WD40 & LRR-class repeat resolution.	PRT/NBMT/DM/04	28 HOURS	05 DAYS	10,200
NBMT-DM-05	Multi-Domain Annotation & Common Errors Overlaps, nesting & fragment misassignment.	PRT/NBMT/DM/05	26 HOURS	05 DAYS	9,500
NBMT-DM-06	Domain-Based Functional Inference & Its Limits What a domain call does and does not license.	PRT/NBMT/DM/06	22 HOURS	04 DAYS	8,000

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 156 HOURS • 28 DAYS

~~56,600~~ 48,100 INR

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04

CATEGORY • NBMT-DN

DNA Regulatory Motifs & Binding Sites

TFBS matrices, scanning, discovery & enrichment

6

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-DN-01	Transcription Factor Binding Site Concepts Binding specificity, degeneracy & site context.	PRT/NBMT/DN/01	22 HOURS	04 DAYS	7,900
NBMT-DN-02	Matrix Retrieval & Handling from TF Databases Curated matrix sets, versions & quality flags.	PRT/NBMT/DN/02	24 HOURS	04 DAYS	8,600
NBMT-DN-03	Promoter & Regulatory Region Motif Scanning Region definition, thresholds & hit filtering.	PRT/NBMT/DN/03	30 HOURS	05 DAYS	11,000
NBMT-DN-04	De Novo Motif Discovery from Peak Sets Model width, background sets & significance.	PRT/NBMT/DN/04	36 HOURS	06 DAYS	13,300
NBMT-DN-05	Motif Enrichment & Differential Testing Enrichment statistics & control set construction.	PRT/NBMT/DN/05	32 HOURS	06 DAYS	11,800
NBMT-DN-06	Motif Clustering, Similarity & TF Assignment Matrix clustering & family-level attribution.	PRT/NBMT/DN/06	28 HOURS	05 DAYS	10,300

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 172 HOURS • 30 DAYS

~~62,900~~ 53,500 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

05

CATEGORY • NBMT-FS

Functional Site & Residue Prediction

Catalytic, binding & cofactor site identification

6

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-FS-01	Active Site & Catalytic Residue Identification Catalytic templates, signatures & evidence.	PRT/NBMT/FS/01	30 HOURS	05 DAYS	10,900
NBMT-FS-02	Binding Site & Pocket Residue Prediction Sequence-based pocket inference & ranking.	PRT/NBMT/FS/02	32 HOURS	06 DAYS	11,700
NBMT-FS-03	Metal-Binding & Cofactor Site Signatures Coordination motifs & cofactor-specific patterns.	PRT/NBMT/FS/03	26 HOURS	05 DAYS	9,500
NBMT-FS-04	Conserved Residue Mapping to Function Family conservation as functional evidence.	PRT/NBMT/FS/04	28 HOURS	05 DAYS	10,200
NBMT-FS-05	Functional Divergence & Site-Specific Shifts Subfamily-specific positions & specificity change.	PRT/NBMT/FS/05	30 HOURS	05 DAYS	11,000
NBMT-FS-06	Validating Predicted Sites Against Evidence Experimental evidence checks & confidence grading.	PRT/NBMT/FS/06	24 HOURS	04 DAYS	8,700

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 170 HOURS • 30 DAYS

~~62,000~~ 52,700 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

06

CATEGORY • NBMT-PT

Post-Translational Modification Sites

Phospho, glyco, ubiquitin & cleavage prediction

6

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-PT-01	Phosphorylation Sites & Kinase Motifs Kinase-specific motifs & prediction interpretation.	PRT/NBMT/PT/01	30 HOURS	05 DAYS	11,000
NBMT-PT-02	N- & O-Linked Glycosylation Site Prediction Sequon rules, context effects & prediction limits.	PRT/NBMT/PT/02	26 HOURS	05 DAYS	9,500
NBMT-PT-03	Ubiquitination, SUMOylation & Acetylation Sites Lysine modification prediction & evidence levels.	PRT/NBMT/PT/03	28 HOURS	05 DAYS	10,200
NBMT-PT-04	Proteolytic Cleavage & Protease Specificity Cleavage motifs, specificity matrices & scanning.	PRT/NBMT/PT/04	26 HOURS	05 DAYS	9,400
NBMT-PT-05	PTM Databases & Evidence Assessment Curated versus high-throughput evidence handling.	PRT/NBMT/PT/05	22 HOURS	04 DAYS	8,000
NBMT-PT-06	Site-Level PTM Annotation & Reporting Position reporting, isoform mapping & caveats.	PRT/NBMT/PT/06	24 HOURS	04 DAYS	8,700

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 156 HOURS • 28 DAYS

~~56,800~~ 48,300 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

07

CATEGORY • NBMT-SG

Signals, Targeting & Membrane Topology

Secretion, localisation & topology prediction

6

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-SG-01	Signal Peptide Prediction & Secretion Routes Cleavage site calls & pathway discrimination.	PRT/NBMT/SG/01	26 HOURS	05 DAYS	9,400
NBMT-SG-02	Subcellular Localisation Prediction Compartment predictors & organism-specific models.	PRT/NBMT/SG/02	28 HOURS	05 DAYS	10,100
NBMT-SG-03	Transmembrane Helix & Topology Prediction Helix calls, orientation & topology models.	PRT/NBMT/SG/03	32 HOURS	06 DAYS	11,700
NBMT-SG-04	Beta-Barrel & Membrane Anchor Detection Outer-membrane proteins & anchor signatures.	PRT/NBMT/SG/04	26 HOURS	05 DAYS	9,500
NBMT-SG-05	GPI Anchors & Lipid Modification Signals Anchor site prediction & supporting features.	PRT/NBMT/SG/05	22 HOURS	04 DAYS	8,000
NBMT-SG-06	Combining Predictors & Consensus Calling Agreement rules, conflict handling & error control.	PRT/NBMT/SG/06	24 HOURS	04 DAYS	8,800

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 158 HOURS • 29 DAYS

~~57,500~~ 48,900 INR

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08

CATEGORY • NBMT-DS

Disorder, Low Complexity & Linear Motifs

Disorder prediction, SLIMs & propensity analysis

5

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-DS-01	Intrinsic Disorder Prediction & Interpretation Predictor classes, agreement & functional meaning.	PRT/NBMT/DS/01	30 HOURS	05 DAYS	11,000
NBMT-DS-02	Low-Complexity & Compositional Bias Regions Detection, masking decisions & downstream effects.	PRT/NBMT/DS/02	22 HOURS	04 DAYS	7,900
NBMT-DS-03	Short Linear Motifs & Curated SLiM Resources Motif classes, context filters & false positives.	PRT/NBMT/DS/03	28 HOURS	05 DAYS	10,200
NBMT-DS-04	Coiled-Coil & Structural Propensity Prediction Heptad detection & propensity profiling.	PRT/NBMT/DS/04	24 HOURS	04 DAYS	8,700
NBMT-DS-05	Disorder-Function Relationships & Annotation Caution What disorder predicts & how to report it.	PRT/NBMT/DS/05	20 HOURS	04 DAYS	7,200

STREAM BUNDLE • 5 MODULES • 5 PROTOCOLS • 124 HOURS • 22 DAYS

~~45,000~~ 38,200 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

09

CATEGORY • NBMT-SC

Scanning, Pipelines & Batch Annotation

InterProScan, custom libraries & FDR control

6

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-SC-01	InterProScan Operation & Output Interpretation Application selection, output formats & parsing.	PRT/NBMT/SC/01	30 HOURS	05 DAYS	10,900
NBMT-SC-02	Proteome-Scale HMM & Pattern Scanning Batch scanning, parallelism & result assembly.	PRT/NBMT/SC/02	34 HOURS	06 DAYS	12,600
NBMT-SC-03	Custom Motif Library Construction Building, versioning & validating in-house libraries.	PRT/NBMT/SC/03	32 HOURS	06 DAYS	11,800
NBMT-SC-04	False Discovery Control in Large-Scale Scanning Multiple-testing correction & threshold setting.	PRT/NBMT/SC/04	28 HOURS	05 DAYS	10,300
NBMT-SC-05	Integrating Multiple Annotation Sources Reconciling conflicting calls into one annotation.	PRT/NBMT/SC/05	30 HOURS	05 DAYS	11,000
NBMT-SC-06	Automated Annotation Pipelines & Job Control Workflow scripting, restarts & resource control.	PRT/NBMT/SC/06	38 HOURS	07 DAYS	14,100

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 192 HOURS • 34 DAYS

~~70,700~~ 60,100 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

10

CATEGORY • NBMT-AP

Applied Functional Annotation

Reports, proteome annotation, variants & QC

6

MODULES

CODE	TRAINING MODULE	PROTOCOL REF	DURATION		FEE (INR)
NBMT-AP-01	Building a Functional Annotation Report Evidence assembly & a defensible written output.	PRT/NBMT/AP/01	26 HOURS	05 DAYS	9,400
NBMT-AP-02	Annotating a Newly Sequenced Proteome End-to-end annotation run & delivery package.	PRT/NBMT/AP/02	40 HOURS	07 DAYS	14,800
NBMT-AP-03	Motif-Informed Construct & Assay Design Using site calls to guide constructs & assays.	PRT/NBMT/AP/03	24 HOURS	04 DAYS	8,800
NBMT-AP-04	Variant Impact on Motifs & Functional Sites Site disruption, gain of motif & interpretation.	PRT/NBMT/AP/04	30 HOURS	05 DAYS	11,100
NBMT-AP-05	Annotation QC & Mis-Annotation Detection Detecting propagated errors & correcting records.	PRT/NBMT/AP/05	28 HOURS	05 DAYS	10,200
NBMT-AP-06	Evidence Documentation & Annotation Provenance Source, version & confidence recording.	PRT/NBMT/AP/06	22 HOURS	04 DAYS	8,000

STREAM BUNDLE • 6 MODULES • 6 PROTOCOLS • 170 HOURS • 30 DAYS

~~62,300~~ 53,000 INR

Each module is enrolled and certified independently against its own protocol reference, or taken together as the discounted stream bundle. Duration is the logged contact-hour allocation for that protocol; days are computed at six contact hours per working day. Fees exclude applicable GST.

Build a Career in Functional Annotation

Every module in this catalogue is delivered as hands-on training on live sequence sets and working signature installations, against a controlled protocol issued at the start and signed off at the end — covering pattern and matrix formalism, the protein signature databases and their integration, domain boundaries and architecture, regulatory motif discovery and enrichment, catalytic and binding site prediction, post-translational modification sites, targeting signals and membrane topology, disorder and short linear motifs, proteome-scale scanning with false-discovery control, and the evidence documentation that makes an annotation defensible. Mix and match modules to design a track that fits your goals.

59TRAINING
MODULES

59CONTROLLED
PROTOCOLS

10CATEGORY
STREAMS

1578CONTACT
HOURS

05OF THE NTHRYS
BIOINFORMATICS SERIES**NTHRYS OPC PVT LTD**

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CATALOGUE

NBMT • 2026 Edition