

ADME Prediction — Absorption, Distribution, Metabolism & Excretion — Hands-on

Develop hands-on skills in in silico ADME prediction across absorption, distribution, metabolism and excretion. You will assemble small ADME panels, interpret key properties, flag liabilities early and summarize risk profiles that support medicinal chemistry decisions and preclinical planning.

ADME Prediction — Absorption, Distribution, Metabolism & Excretion

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Session 1

Fee: Rs 8800 [Apply Now](#)

ADME Principles & Property Panels

ADME concepts in discovery projects

[absorption / distribution](#) [metabolism / excretion](#) [PK vs PD \(high level\)](#)

In silico ADME property panels

[logP / logD](#) [pKa and ionization](#) [solubility & permeability surrogates](#)

Toolchain and data handling basics

RDKit descriptors **spreadsheet / KNIME panels**
series-level summaries

Session 2

Fee: Rs 11800 Apply Now

Absorption & Distribution Prediction

Absorption related properties & surrogates

HIA & oral absorption flags **Caco-2 / PAMPA**
concepts **BCS-style thinking (high level)**

Distribution and tissue exposure aspects

plasma protein binding surrogates **volume of**
distribution patterns **tissue partitioning indicators**

Interpreting A/D panels for design feedback

linking properties to exposure **flagging high-risk**
regions **simple adjustment ideas**

Session 3

Fee: Rs 14800 Apply Now

Metabolism, Clearance & Excretion

Metabolism concepts & soft spots

Phase I / Phase II overview **likely sites of metabolism**
stability surrogates

Clearance, half-life & excretion pathways

hepatic vs renal emphasis **simple CL and $t_{1/2}$**
indicators **dose frequency implications**

Interactions and high-level DDI flags (conceptual)

enzyme / transporter focus **overlap in pathways**

ideas **when to seek expert input**

Session 4

Fee: Rs 18800 Apply Now

Mini Capstone: ADME Risk Profiling

Build an ADME panel for a small series

Theory + Practical

Interpret absorption, distribution, metabolism & clearance flags

series-level comparison **identify high-risk compounds** **prioritize for follow up**

Deliverables: ADME summary table & short risk narrative

spreadsheet with key properties **traffic light style flags** **PDF/HTML summary note**