

## Population Screening & Genomic Epidemiology — Hands-on

Build end-to-end, ethically grounded genomics programs for population screening and genomic epidemiology. This hands-on module spans program design and governance, assay selection and pipelines, reporting rules and thresholds, analytic surveillance (lineages/variants, trends, phylogenetics — overview), and operational dashboards with meaningful KPIs and health-economic framing.

# Population Screening & Genomic Epidemiology

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[Session 1](#)

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### Program Design, Ethics & Governance

Screening frameworks & eligibility

[population cohorts & risk tiers](#) [equity & access](#) [KPIs & outcomes](#)

Ethics, consent & privacy

[broad vs specific consent](#) [incidental/secondary findings \(overview\)](#) [data sharing & de-ID](#)

Operating model & governance

**SOPs & roles** **quality & escalation** **stakeholder map**

## **Session 2**

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### **Assays, Pipelines & Reporting Rules**

Assay selection & logistics

**targeted panels vs WES/WGS** **sample collection & chain-of-custody** **turnaround & batching**

Pipelines, QC & thresholds

**coverage, contamination, duplicates** **reportable variants & cutoffs** **confirmatory testing flows**

Clinical reporting at scale

**templates & automation** **EHR delivery & FHIR (overview)** **education & counseling handoffs**

## **Session 3**

**Fee: Rs 33920** Apply Now

### **Genomic Epidemiology & Surveillance**

Signals & trends

**lineages/variants (overview)** **prevalence & incidence curves** **geospatial slices**

Analytics & integration

**time-series & early warning** **EHR/registry joins** **cohorts & risk groups**

Phylogenetics (high-level)

**multiple alignment basics** **trees & clusters** **outbreak narratives**

**Session 4**

**Fee: Rs 39520** Apply Now

## Implementation, Dashboards & Health Economics

Pathways & operations at scale

**screen → report → action** **SLAs, TAT & escalation**  
**training & comms**

Dashboards & KPIs

**coverage & uptake** **positivity & PPV/NPV (overview)**  
**equity & reach**

Health economics & policy

**budget impact (overview)** **cost-effectiveness**  
**concepts** **policy briefs & evidence packs**