

Validity & Reliability (V&R) Studies for mySATHI



Purpose of the V&R Studies

For mySATHI to serve as a **credible benchmark for undergraduate admissions**, it is essential that every question and test form is both **valid** (measuring what it is intended to measure) and **reliable** (delivering consistent results across time and contexts). The V&R studies have been carefully designed to give universities and decision makers confidence that mySATHI will be a **fair, defensible, and globally benchmarked assessment**.

1. Validity Studies – Ensuring the Right Things are Measured

- **Expert Review Panels:** Subject Matter Experts (SMEs) carefully review each test item for fairness, relevance, clarity, and alignment with intended outcomes.
- **Content Validity Ratio (CVR):** Experts independently rate items as essential or not. Items that fall below the statistical threshold are revised or removed.
- **Content Validity Index (CVI):** The overall validity of the test is calculated. A CVI score above 0.70 is the accepted global standard, and mySATHI tests are designed to surpass this benchmark.

Outcome: Universities can trust that mySATHI questions are not random or rote-based, but are carefully validated to represent the **4Cs framework (Critical Thinking, Creativity, Collaboration, and Communication)**.

2. Reliability Studies – Ensuring Consistency and Fairness

- **Test–Retest Reliability:** The same test is administered twice to the same group within a short gap to check stability of scores.
- **Parallel Forms Reliability:** Two different but equivalent forms of the test are given to the same group to ensure both forms measure the same constructs consistently.
- **Split-Half Reliability:** A single test is split into two halves, and results are compared to confirm that all items measure the intended construct in a consistent manner.

Outcome: High reliability coefficients (≥ 0.80) ensure that a student's score is **not dependent on luck, chance, or which test form they attempt**. This strengthens confidence in admissions decisions.

3. Expert Oversight and Global Advisory Support

The V&R studies are guided by the **Global Advisory Board of Experts (GABE)** and leading practitioners in assessment science. This ensures that mySATHI's processes are anchored in globally accepted psychometric practices.

ETS-Nominated Experts (USA)

- **Dr. Lydia Liu** – Vice President, Research, ETS
- **Dr. Kadriye Ercikan** – Senior Vice President, ETS Global Research
- **Matt Johnson** – Senior Advisor, ETS

Indian and Global Experts

- **Prof. Partha Pratim Chakrabarti** – Former Director, IIT Kharagpur; Chair, Assessment & Technology Committee, mySATHI
- **Dr. Sadhana Parashar** – Ex-Senior Director, National Testing Agency (NTA)
- **Prof. Janat Shah** – Founding Director, IIM Udaipur
- **Sridhar Rajagopalan** – Co-Founder, Educational Initiatives
- **Bimal Rath** – MD, Think Talent Services
- **Ajay Shukla** – COO, IIT Delhi–Abu Dhabi
- **Prof. Peninah Aloo Obudho** – Vice Chancellor, Maasai Mara University, Kenya
- **Yonatan Glaser** – Founder & CEO, Israel Partnerships
- **Raanan Haas** – Chief Organizational & Occupational Psychologist, Israel
- **Dhanjay Jhurry** – Managing Director, Uniciti Education Hub, Mauritius

Outcome: With this blend of Indian and international expertise, including ETS advisors, mySATHI benefits from **cutting-edge psychometric science and proven operational experience**, ensuring defensibility and credibility without overstatement.

4. Phase-Wise Implementation Timeline

- **Phase 1 (June–Sept 2025):** Expert panel reviews, item calibration, and pilot administration.
- **Phase 2 (Oct–Nov 2025):** Reliability testing (test–retest, parallel forms, split-half) with pilot student groups across diverse regions.
- **Phase 3 (Dec 2025):** Consolidation of results, final reporting, and readiness for full rollout.

By December 2025, mySATHI will be fully validated and reliable for operational use, with psychometric evidence documented and available for institutional partners.

5. Why This Matters to Universities

- **Confidence in Selection:** Universities can rely on mySATHI scores as a fair and defensible tool for admissions.
 - **Transparency:** The rigorous V&R process ensures no bias in test design, supporting institutional credibility.
 - **Global Benchmarking:** Methods are aligned with standards used in tests like SAT, GRE, and PISA.
 - **Student-Centric:** Ensures that the test identifies potential and readiness, not just rote knowledge.
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Key Assurance for University Leaders

mySATHI's V&R studies ensure that by December 2025, institutions will have access to a **scientifically robust, culturally neutral, and reliable admissions tool**. This strengthens decision-making, enhances fairness, and aligns with the **NEP 2020 vision of holistic and future-ready higher education**.

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