



PRAYOGA™

Research to Transform Learning



Prayoga Institute of Education Research

To bring about a transformation in society by enhancing
the utility and quality of learning through research

Advisory Board



**Padma Bhushan
Dr M N Venkatachalaiah**

Former Chief Justice of India
Chairman - Advisory Board of Prayoga

Established in 2015, Prayoga is helmed by **Dr H S Nagaraja**, an eminent physics teacher and devoted educationist. Comprising luminaries in education, research, and philanthropy, **Prayoga's Advisory Board** provides invaluable strategic guidance and direction for the organisation's initiatives.



Dr P R Krishnaswamy

Former Chief of Pathology,
Jaslok Hospital
Visiting Professor, Cornell University
International Cancer Union Fellow



Prof P Balam

Padma Bhushan
Former Director, IISc



Prof T N Guru Row

Professor Emeritus, IISc
Renowned Crystallographer
Prof Y.T. Thathachari
Prestigious Research Awardee



Sri Balakrishna Adiga

Former Director, IBM
MD, CenturyLink Inc



Dr S N Omkar

Chief Research Scientist, IISc
Honorary Professor
Vedic Wellness University



Prof Nagasuma Chandra

Professor, Biochemistry, IISc
Recipient of National Bioscience
Award for Career Development



Dr H S Nagaraja

Founder and Chief Mentor

The team includes education researchers, psychologists, scientific researchers, science and mathematics faculty, pedagogy experts, data science experts, program management professionals and others working together to find systematic and creative solutions to address the challenges of the current education system.

Our Approach



Make Teaching - Learning Resources and Research Findings Open Source

By amalgamating education research and social initiatives, Prayoga seeks not only to contribute to fundamental and long-lasting changes in education but also makes a tangible difference to the schools, teachers and students from the disadvantaged sections of the society.



Prayoga envisions becoming a **Globally Unique Trans-disciplinary Education Research Institution.**

Prayoga will create a lasting impact in the next few decades to remain resonant through time and serve the cause of nation-building.

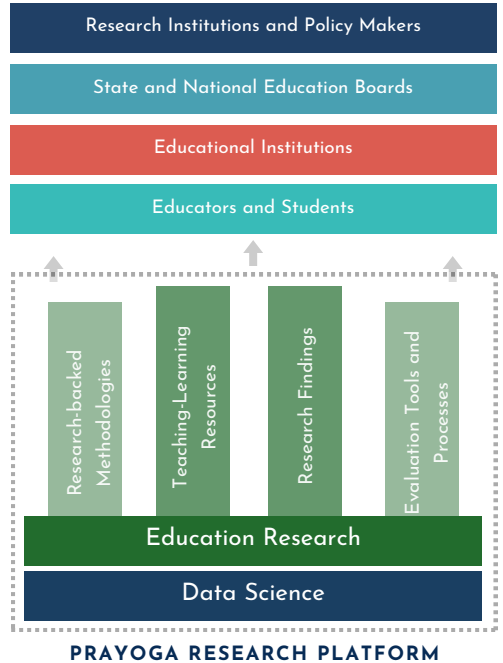
Education Research

We focus on exploring fundamental questions in education and developing solutions that, while applicable broadly, specifically address the challenges of the Indian education context.

These resources and data-driven solutions will contribute to the global knowledge on education and will be made open-source to education stakeholders.

We aim to **bridge the gap between education practice and education policy**, implementing learning interventions intended to improve the quality of education in the country.

Our research is rigorous and data-driven, providing valuable insights, developing implementable solutions and **offers open-source courseware, materials, and adaptable learning resources.**



Thematic Research in Science

We aim to generate holistic solutions that not only have a meaningful impact on the progress of science in the country but also **drive innovation, foster interdisciplinary collaborations**, and shape the future of scientific discovery. Our work encompasses 5 key thematic areas.



Green Chemistry & Technologies



Advanced & Functional Materials



Earth Sciences



Wellness



Food & Agriculture

The **Prof. U R Rao Research Block** houses the laboratory facilities to conduct domain research in science with facilities for research in Physical Sciences, Chemical Sciences, Earth Sciences, and Life Sciences along with a Sophisticated Instrumentation lab. Prayoga's research block is also home to the first **Sustainability Garage, an initiative by Mercedes-Benz Research and Development India**.

What truly sets us apart at Prayoga is our strong emphasis on applied research. **We understand that the most impactful innovations come when academic research is directly aligned with the needs of industries.**



Education Research and Social Impact Programs

Our social impact and education research programs have been devised by a **multidisciplinary team of education researchers, experienced teaching faculty and researchers in science.**

Implementation of these programs meets the quality of education we aim to foster through a **strong network of field staff.**

All support provided to schools, teachers, and students through our Social Impact programs comes at **no cost to the beneficiaries.** These programs are designed to uplift and empower without any financial burden, ensuring that quality educational resources, guidance, and opportunities are accessible to all.

Kriya

An experimental study on the impact of experiential learning of science on the development of learner competencies and teachers' progression into teacher-researchers.

IMPACT

Transforming schools into mature experiential learning centres, through a 5+ year intensive engagement, by empowering teachers and providing content and lab resources.



Curated
COURSEWARE



Teacher
EMPOWERMENT
Program



Portable
LABSTATIONS

Anveshana

Studying the impact of Research as a Pedagogy on competencies and attitudes of high-school students pursuing independent scientific research projects under 5 thematic areas.



Research
GUIDANCE



Access to State-
Of-The-Art
LABORATORY
FACILITIES



Exposure to
SCIENTIFIC
RESEARCH

IMPACT

Equip students with skills and capabilities for future careers and employment in the industry through a program with continuous mentoring and assessments.

Kriḍā

To evaluate the impact of experiential learning in the context of sports for science and maths education. The program develops strategies and resources for a rigorous and engaging sports-based curriculum.

IMPACT

Create alternate pathways to learn science by leveraging student interests and aptitudes.



COLLABORATIVE
Development



MULTI-YEAR
Engagement



Curated
COURSEWARE

Dhātu

An initiative to understand and analyse the patterns of Indian students in mathematical and mathematical learning competencies. Develop a layered understanding for mathematics in students.



**TECHNOLOGY -
ENABLED**
Learning Platform



Curated
COURSEWARE



Teacher
EMPOWERMENT
Program

IMPACT

Provide equitable access to quality mathematics resources that focus on deepening conceptual understanding and practical application amongst learners

Prerana

Strengthening the call for grassroots awareness to adopt experiential learning pedagogies, the program studies the competencies and knowledge levels of students and teachers.

IMPACT

Empowering teachers and enriching students through awareness workshops on experiential learning



WORKSHOPS
for Students
and Teachers



Curated
MATERIALS



**EDUCATOR -
Centric**

Prayoga's aim to create a fundamental shift in the education system to enable higher-order thinking and meaningful learning is achieved through its purposeful social impact programs and rigorous research.

STUDENTS

7221

SCHOOLS

67

TEACHERS

210

Partner with our Purpose



Individual Contributions

Support our programs to bring about positive, lasting change in the lives of countless young minds.



CSR Partnerships

Progress towards our goal is made through partnerships and collaborations with diverse institutions and organisations.



Research Collaborations

Collaborate with us on scientific research challenges, utilising our mutually complementary capabilities and research facilities.



Prayoga is a recognised **Science and Industrial Research Organisation** by the DSIR, Government of India

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