



PRAYOGA™

Research to Transform Learning

Nurturing the Next Generation of Researchers for the Nation



Anveshana

High School Students passionate about a career in science participate in research projects guided by senior researchers at Prayoga. Students are introduced the process and products of science research, developing competencies .

This is an opportunity to evaluate research as a pedagogy and its impact on developing student competencies and attitudes toward science.



From working within a defined syllabus to exploring beyond the curriculum, research expands the ambit of student engagement with science. Research activities build capabilities to deal with unknown outcomes and the attitudes to deal with uncertain paths in acquiring knowledge. Under the guidance of experienced researchers, student researchers of the Anveshana program are encouraged to conduct innovative scientific research under five themes:



Green
Chemistry



Advanced and
Functional
Materials



Earth
Sciences



Wellness



Food &
Agriculture



For Prayoga, Anveshana is an **Education Research Project**. How does science research impact learning outcomes? Do the skills learnt during the research process affect students' attitudes toward science as a whole?

The impact of research in developing competencies and performance is assessed through this initiative which will help us evolve a framework to develop and nurture the next generation researchers for the nation.

Anveshana Experience

During the Anveshana program, students receive:

- **Access** to state-of-the-art research facilities and equipment
- **Exposure** to real-world research experiences
- **Relevance** of projects to contemporary concerns
- **Guidance** from Prayoga's research mentors
- **Opportunities** to publish research in international, peer-reviewed journals



Impact and Publications

A tangible product of research is the publications that summarize and present the many months of concerted research activity. Anveshana student researchers have become published authors in internationally recognized, peer-reviewed journals. The development of a scientific temperament among high school students is clear.

20

Projects
Completed

8

Student
Research
Publications

60

Total student
Participants

Student publications in International journals include:

- ▶ Journal of Emerging Investigators - Harvard University, Massachusetts, USA.
- ▶ Journal of High School Science, Texas, USA.
- ▶ International Journal of High School Research - Terra Science and Education, New York, USA.
- ▶ Journal of Research High School, High School Edition, Willow Place, Texas.
- ▶ Journal of Chromatographic Science, Oxford University Press.
- ▶ World Kidney Day Organization, Belgium.



Prior to coming to Prayoga, I was unsure about my career path. Prayoga helped me understand the significance of the world of research. There are many engineers and doctors, but for the development of a nation, research is also vital. After my experience in Anveshana, conducting experiments, conducting research, and writing research papers, I knew I wanted to pursue science research.

Amulya Hurukadli Chidananda
Sri Kumaran's Children's Home



Anveshana is a program that has originated from a lot of experiments and thought processes that have been put in by the group at Prayoga. The emphasis would be to encourage these students to take up an innovation or for that matter a repeatable research program in such a way that their knowledge is improved in the particular area with respect to doing experiments and theoretical evaluations. This therefore brings the students to a level where they can compete with researchers at higher levels.

Prof T N Guru Row
Professor Emeritus, IISc
Renowned crystallographer

To learn more about the program, visit: www.prayoga.org.in/anveshana

Applications for Anveshana are open once a year between January and March.

For further information and queries, contact: anveshana@prayoga.org.in

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Prayoga is a recognised Science and
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