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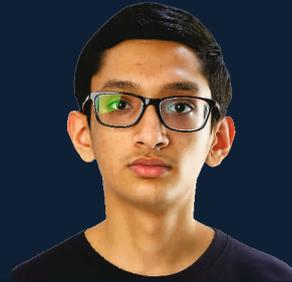
Anupama G.
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V Sai Vijval K
IIT, Varanasi



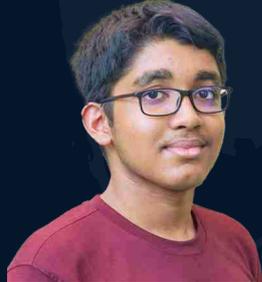
Shreyas
KMC, Mangalore



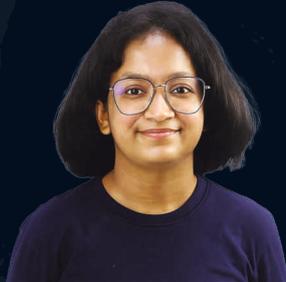
Sanjana D S
Indian Institute of Science, Bengaluru



Pratham D.
IIT, Madras



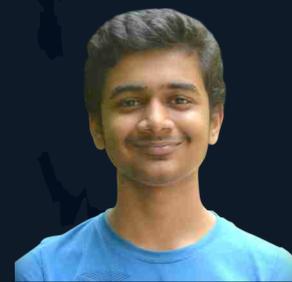
Diya
KMC, Mangalore



Disha
KIMS, Hubli



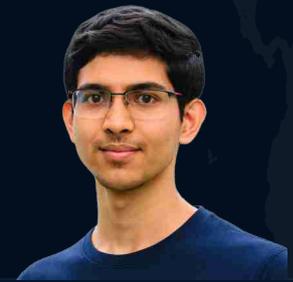
Rishab Rao
IIT, Bombay



Daiwik Krishna
IIT Guwahati



Vishnu
KMC, Manipal



Prajna Hebbar
NITK, Surathkal



Vidyarashmi
I.I.S.E.R.



Chethas Pai
KMC, Mangalore



Medini N B
BITS



CFAL FOUNDATION PROGRAM • GRADES 7 – 10

Your Child's Dream Outcome: *The World's Best Universities*

We increase the likelihood of getting there.

4

EXCELLENCE
PATHWAYS

10:1

STUDENT-TEACHER
RATIO

13×

JEE SUCCESS
VS NATIONAL AVG

20+

YEARS OF
EXCELLENCE



Olympiads | Math Circles | National Camps | Ramanujan Contest | STEM Competitions
Mangaluru | +91 9900520233 | office@cfalindia.com | www.cfalindia.com



THE DREAM

Every Parent Carries a Dream

“I want my child to reach their full potential and to have opportunities I never had - to be among the best in the world.”

You dream of your child at Stanford, MIT, Oxford, IISc, or the IITs. Not just for the name, but for who they become there.

- Someone who thinks clearly
- Communicates confidently
- Works with discipline
- Leads with integrity
- Stays curious for life

The Question Is: How do you dramatically increase the likelihood of this dream becoming reality?

Most families invest enormous time and money into exam preparation, but start too late, with the wrong approach, in the wrong environment. CFAL changes each of these variables.

THE VALUE EQUATION

Dream Outcome × Likelihood of Achievement
÷
Time Investment × Effort Required

CFAL maximizes the top. We make the bottom worth every moment.





THE REALITY

The Competitive Landscape

Understanding the numbers helps families plan wisely.

JEE ADVANCED 2024

1.5%

Success Rate

11.13 Lakh applicants for 17,000 IIT seats

NEET 2023

2.6%

Success Rate

20.87 Lakh applicants for 55,000
Govt Quota seats

THE FINANCIAL STAKES

IIT/NIT Engineering (Govt Seat)

₹ 12–14 Lakhs total

Private Engineering (Management)

₹ 45–64 Lakhs total

MBBS Government Seat

Near zero

MBBS Management Seat

₹ 1.5–2 Crores

*“Only 3% of students secure seats in India's top institutions.
The question is: what makes the difference?”*

A Merit seat isn't just prestige - it protects your family from crushing financial burden.

THE HIDDEN GAP

Why Most Students Struggle at Grade 11 ?

The difficulty doesn't begin in Grade 11. It begins much earlier.

Success depends on whether concepts have been internalised. Students must reason from first principles, connect ideas across chapters, and approach unfamiliar problems independently.

In most schools, learning is organised around syllabus coverage and routine problem formats. Students learn to recognise familiar question types and apply standard methods. This supports short-term performance when assessments are predictable, but creates a hidden gap.

Up to Grade 10, acceptable grades can mask underlying gaps. Earlier assessments rarely test for depth of understanding or flexible reasoning. Difficulties appear abruptly in Grade 11, even though their causes lie much earlier.

Effective preparation requires that reasoning skills, conceptual clarity, and confidence with unfamiliar problems be developed before Grade 11.

THE ASSUMPTION GAP

What Grade 11 coaching assumes vs. what students actually have.

WHAT COACHING ASSUMES

- Concepts already internalised
- Reasoning skills already developed
- Comfort with unfamiliar problems
- Ability to connect across topics
- Internal motivation and discipline

WHAT STUDENTS ACTUALLY HAVE

- Pattern recognition, not understanding
- Formula-dependent solving
- Panic with new problem types
- Topics learned in isolation
- Dependence on external structure

THE CORE INSIGHT

The best time to build a foundation is before you need it, not after.



OUR APPROACH

The CFAL Foundation Program

Focusing on Thinking Before Exam Preparation Begins

Building Concepts from First Principles

Students understand ideas at their roots rather than through memorised procedures. Emphasis is placed on why concepts work, how they connect, and where their limitations lie. This forms stable mental models usable in unfamiliar situations.

Encouraging Depth Over Speed

Foundation classes prioritise clarity and reasoning over rapid completion. Students pause, question assumptions, make mistakes, and refine understanding, habits critical when exam problems require careful interpretation.

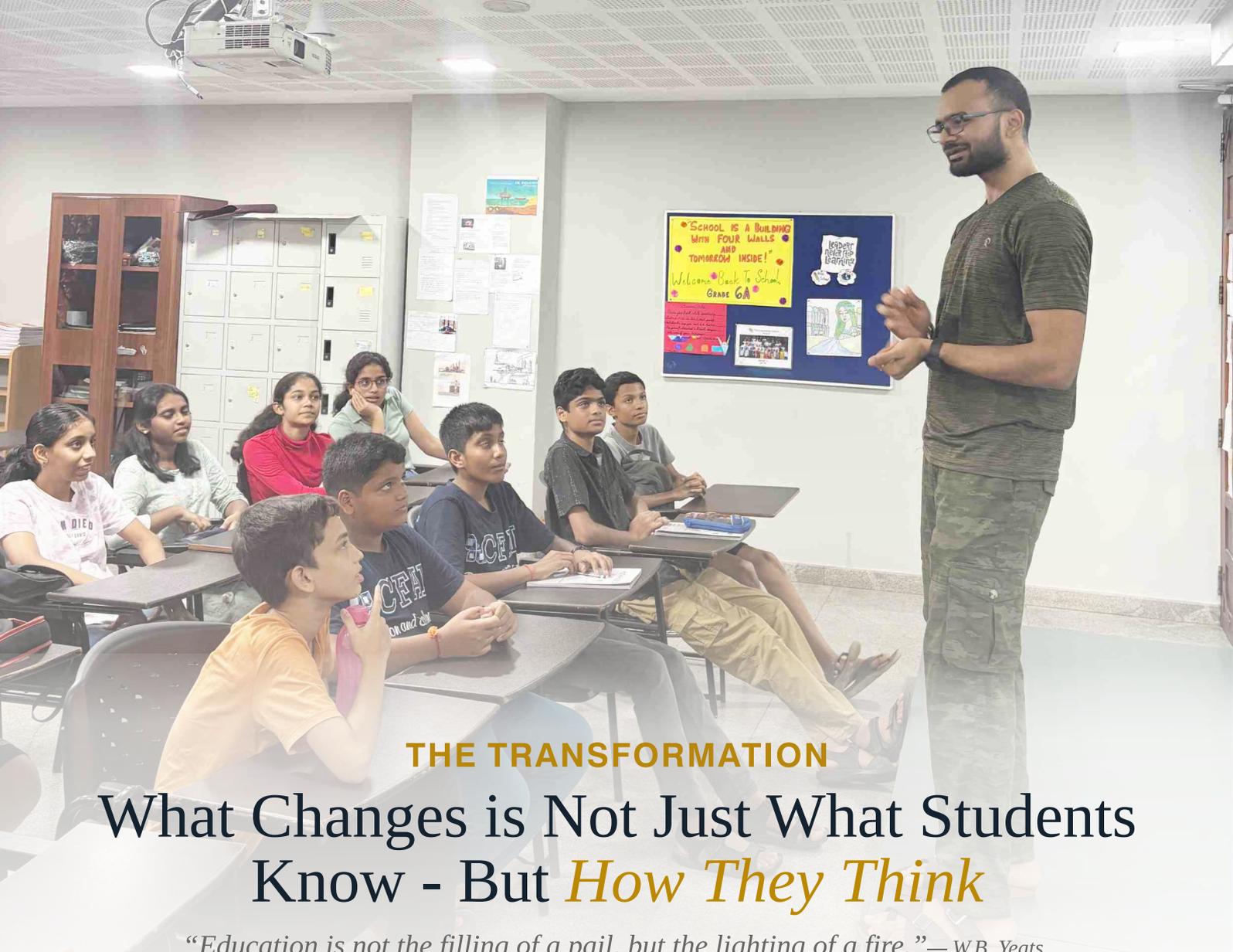
Moving Beyond Pattern-Based Problem Solving

Instead of training students to recognise question types, CFAL encourages them to analyse problems, identify relevant ideas, and choose an approach independently.

Developing Comfort with the Unfamiliar

Through carefully designed tasks, discussions, and challenges, students learn to engage with problems they have not seen before. This prepares them for NEET, JEE, and Olympiad-style uncertainty.

By the time students enter formal exam preparation, they are already comfortable with abstraction, reasoning, and conceptual connections. Training builds on a solid foundation instead of compensating for its absence.



THE TRANSFORMATION

What Changes is Not Just What Students Know - But *How They Think*

"Education is not the filling of a pail, but the lighting of a fire."— W.B. Yeats

"Which formula do I use?" → **"What is actually happening here?"**

Solving to get an answer → **Explaining why the answer makes sense**

Topics as isolated chapters → **Seeing structure and connections**

Avoiding difficulty → **Engaging with it deliberately**

Needing step-by-step guidance → **Internal direction and judgement**

Short-term performance → **Long-term understanding**

Students stop searching for the right formula at the start of a problem. They begin by interpreting the situation, identifying underlying principles, and reasoning about what is actually taking place.

This is the transition from procedural thinking to conceptual thinking.

HOW IT WORKS

How the Foundation Program is Structured

A Long-Term, Structured Core Program-built as multi-year learning pathway, anchored by a core curriculum of 250+ hours across Mathematics, Physics, Chemistry and Biology.

Classroom Learning

Concepts are introduced through questions, experiments, demonstrations, and projects before being formalised. This time is used for thinking, not rote practice.



Nuffield Labs

Students don't just read about science, they do science. Our expanded Nuffield Lab program puts experiments at the centre of learning.



Viva-Based Assessments

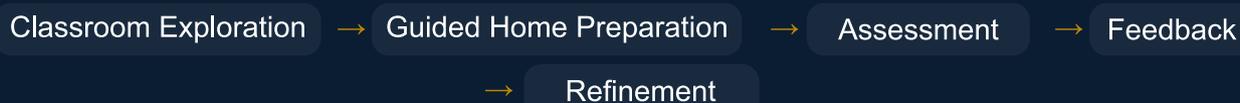
We don't just test what students can write, we test what they understand. Regular viva assessments ensure students can explain, defend, and apply their knowledge.



Continuous Feedback

Every assessment is followed by targeted feedback. Parents receive periodic updates focused on learning development, not just scores.

THE LEARNING CYCLE



THE FULL PATH

The Full CFAL Journey

From Grade 7 to the World's Best Universities



FOUNDATION

Grades 7–10

Build Foundations | Discover Pathway |
Begin Competitions



PU PROGRAM

Grades 11–12

Deepen Expertise | Compete Nationally | Build Profile



13TH YEAR

Post-12th

Olympiad Mastery | Research Portfolio |
Global Applications



DESTINATION

World's Best Universities

MIT, Stanford, IISc CMI, ISI, IITs, Oxford, Cambridge

These profiles take 5–7 years to build. The world's top universities look for Olympiad medals, research experience, innovation projects, and intellectual depth demonstrated over years. If you start in Grade 11, you're already too late.

BREADTH FIRST, DEPTH BY CHOICE

Four Specialised Pathways

All students complete a mandatory core curriculum. In addition, CFAL offers four specialised tracks based on interest, aptitude, and long-term goals.

PATHWAY 1

Math & Physics Olympiads

For problem-solvers

Students work on non-standard problems requiring deep reasoning, abstraction and creativity.



PATHWAY 2

Life Sciences Olympiads

For Future Scientists

Advanced conceptual training in life and chemical sciences with experimental reasoning.



PATHWAY 3

Computing & AI Olympiads

For Builders

The science of computation-logical reasoning, algorithmic thinking, and mathematical foundations.



PATHWAY 4

Research & Makerspace

For Innovators

Students learn by building, experimenting, exploring. They design, construct, test and iterate.

Early Identification Process

Grade 7–8

Aptitude assessments and interest mapping

Grade 8–9

Pathway selection with mentor guidance

Grade 9–10

Deep specialisation and competition preparation

Be your best...

Suraj Samaga
IIT-Mumbai
National Talent Scholar
KVPY Scholar - AIR 288
JEE Main - 99.43 Percentile

Kausthub Rao
IIT-Mumbai

Vishnu Bharadwaj
MBBS, Free Merit
Seat at KMC Manipal

Samarth
ISI Bangalore
National Talent Scholar & KVPY Scholar
AIR 5 in IIT Hyderabad Entrance Exam
JEE Main - 99.9 Percentile

Aneesh Hebbar
IISc, Bangalore
National Talent Scholar
OCS (Math Olympiad) 2018 & 2019
KVPY Scholar - AIR 92
JEE Main - 99.28 Percentile

Shreyas Pai
Trinity College
University of Cambridge
All India Topper
Biology Olympiad-2019

Druhan
IIT-Hyderabad
National Talent Scholar
KVPY Scholar
JEE Main - 99.92 Percentile
JEE Adv. - AIR 2187

Rakshitha
IIT Delhi
National Talent Scholar
KVPY Scholar - AIR 100
JEE Main - 99.979 Percentile
JEE Adv. - AIR 751

COMPETITIONS & OLYMPIADS

- ✓ Ramanujan Mathematics Contest — Gateway to HBCSE programs
- ✓ IOQM / INMO — Indian Mathematical Olympiad pathway
- ✓ NSEP / INPhO — Indian Physics Olympiad pathway
- ✓ IMO / IPhO — International Olympiad preparation
- ✓ Math Circles — Weekly problem-solving seminars

CAMP ACCESS

- ✓ HBCSE Orientation Camps (Maths & Physics)
- ✓ IMOTC — International Math Olympiad Training Camp
- ✓ University summer programs (ISI, CMI, TIFR)

PATHWAY 1

Math & Physics Olympiads

For problem-solvers who love depth over speed

7 CFAL students clear the KVPY Examination

Muralidhar Rao cleared Indian stage of INMO (Math) & INAO (Astronomy)

KVPY Scholar AIR-5

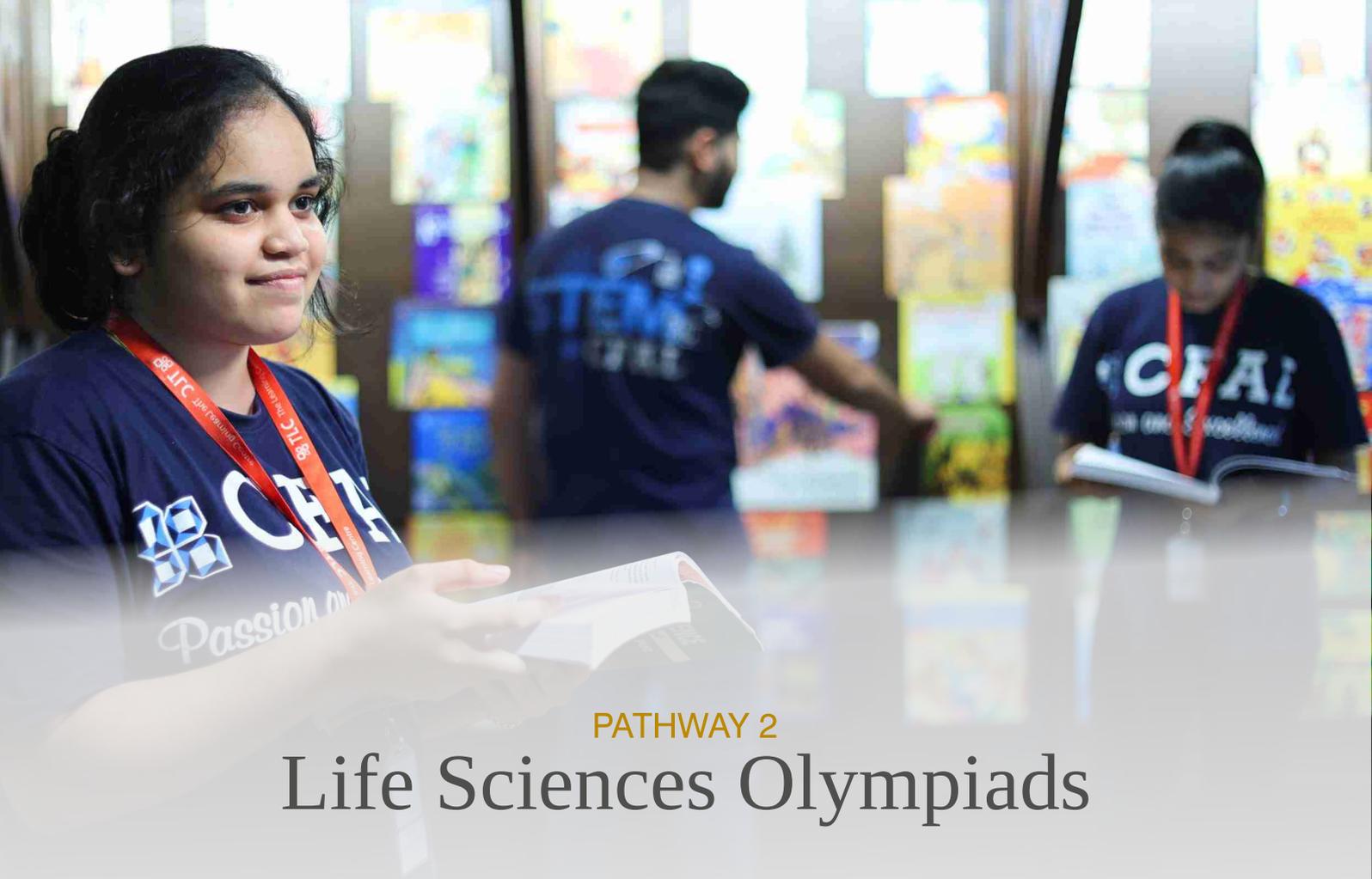
Selected for the International Science Camp to be held at Sydney, Australia

WHERE THIS LEADS

CMI Chennai, ISI Kolkata / Bangalore, IISERs, IITs (top ranks), MIT, Princeton, Cambridge | Pure Mathematics | Theoretical Physics.

“Pure mathematics is, in its way, the poetry of logical ideas.”

— Albert Einstein



PATHWAY 2

Life Sciences Olympiads

COMPETITIONS & OLYMPIADS

- ✓ NSEB / INBO — Indian Biology Olympiad pathway
- ✓ NSEC / INChO — Indian Chemistry Olympiad pathway
- ✓ IBO / IChO — International Olympiad preparation
- ✓ NSEA / INAO — Astronomy Olympiad pathway
- ✓ KVPY, INSPIRE — Science Fellowship programs

CAMP ACCESS

- ✓ HBCSE Orientation Camps (Biology, Chemistry, Astronomy)
- ✓ OCSC — Olympiad Cell Study Camps
- ✓ Research Mentorship with University Professors

WHERE THIS LEADS

AIIMS, JIPMER, AFMC (Medicine), IISc, IISERs, Johns Hopkins, Harvard, Cambridge | Medicine, Biological Sciences, Biochemistry.

“Nothing in biology makes sense except in the light of evolution.”

— Theodosius Dobzhansky

COMPETITIONS & OLYMPIADS

- ✓ ZIO / ZCO — Zonal Informatics Olympiad
- ✓ INOI — Indian National Olympiad in Informatics
- ✓ IOI — International Olympiad in Informatics
- ✓ Google Code Jam, Meta Hacker Cup
- ✓ National and International Hackathons

CAMP ACCESS

- ✓ IOITC — IOI Training Camp at IIIT Hyderabad
- ✓ ACM-ICPC preparation programs
- ✓ AI/ML Bootcamps and workshops

WHERE THIS LEADS

IIIT Hyderabad / Bangalore,
IIT CS programs, CMI Computer Science,
MIT, Stanford, Carnegie Mellon |
Computer Science | AI.

“The best way to predict the future is to invent it.”

— Alan Kay

PATHWAY 3

Computing & AI Olympiads

For builders of the digital future





PATHWAY 4

Research & Makerspace

For Innovators, Creators and Entrepreneurs

COMPETITIONS & INNOVATION CHALLENGES

- ✓ IRIS National Science Fair — India's premier research competition
- ✓ Breakthrough Junior Challenge — \$250,000 scholarship
- ✓ Conrad Challenge — Innovation in aerospace, energy, health
- ✓ FIRST Robotics / FTC — Team robotics competitions
- ✓ INSPIRE Awards — Government innovation recognition

THE INNOVATION PIPELINE

- ✓ Grade 7: Guided exploration projects and tinkering
- ✓ Grade 8: First research project with mentor guidance
- ✓ Grade 9: Competition-ready project development
- ✓ Grade 10: Advanced research, robotics teams, innovation submissions

WHERE THIS LEADS

IIT Engineering, BITS Pilani, MIT, Stanford, Georgia Tech
Engineering | Robotics | Entrepreneurship.

“The only way to do great work is to love what you do.”— Steve Jobs



WHERE BRILLIANT MINDS SHARPEN
EACH OTHER

Math Circles & The Ramanujan Gateway

THE RAMANUJAN MATHEMATICS CONTEST

India's most prestigious mathematics
competition for school students

- Top performers receive direct invitations to HBCSE programs
- Opens doors to the IMO preparation pathway
- Recognised by top universities worldwide
- CFAL provides systematic preparation from Grade 7

*“Mathematics is not about numbers or
algorithms: it is about understanding.”*

— William Paul Thurston, Fields Medalist

*Weekly seminars with Olympiad-level
problems, research puzzles and
mathematical investigations.*

- ✓ Collaborative problem-solving on Olympiad-level questions
- ✓ Exposure to proof techniques and mathematical reasoning
- ✓ Guest sessions with Olympiad medalists and mathematicians
- ✓ Development of mathematical intuition, not just skills



WHERE INDIA'S BEST STUDENTS TRAIN TOGETHER

National Competitions & Camp Access

The pathways connecting CFAL students to India's and the World's most prestigious programs.

IRIS National Science Fair

India's premier research competition.
Top projects advance to Intel ISEF.

Breakthrough Junior Challenge

\$250,000 scholarship + \$100,000 for school.
Global science communication.

FIRST Robotics

Build real robots, compete nationally.
Engineering + teamwork.

Conrad Challenge

Innovation competition. Solve real problems in
aerospace, energy, health.

HBCSE Camps

Gateway to International Olympiads.
Top 50–100 students in India per subject.

IMOTC / IOITC

Math & Informatics Olympiad Training.
India's best for international teams.

OCSC

Pre-departure training for
International Olympiad teams.

University Programs

Summer schools at ISI, CMI, TIFR.
Research with leading scientists.



BEYOND STEM

Character & Competencies

The World's Best Universities and organisations seek people who are excellent and good. At CFAL, we build both.

DEEP WORK

Focus intensely for extended periods

INTELLECTUAL COURAGE

Tackle hard problems, risk being wrong

SELF-DISCIPLINE

Do what's necessary, always

COMMUNICATION

Articulate ideas in writing and viva

COLLABORATION

Work in teams for robotics, research

INTEGRITY

Do right when no one is watching

THE TLC VALUES

Be Your Best • Passion & Excellence

- *Wisdom & Compassion*
- *Purpose & Meaning*

“Educating the mind without educating the heart is no education at all.”

— Aristotle



The Power of Being Among the Best

Your child's peers shape their future more than any curriculum.

AVERAGE ENVIRONMENT

100+ students per batch

Wide range of motivation

Peer pressure against excellence

Mediocrity becomes the norm

CFAL ENVIRONMENT

10 students per teacher

Every student is ambitious

Being excellent is celebrated

Excellence becomes the norm

WHAT HAPPENS IN THIS ENVIRONMENT

- ✓ Students raise their own standards - "If she can do it, so can I"
- ✓ They learn from peers as much as from teachers.
- ✓ They build lifelong friendships with future leaders.
- ✓ They internalise that excellence is normal, not exceptional.

"You are the average of the five people you spend the most time with."— Jim Rohn

20+ YEARS OF RESULTS

The Proof : Outcomes That Reflect the Philosophy

Prathyush Poduval - Silver Medalist, International Olympiad in Astronomy & Astrophysics (IOAA), Beijing

13x

HIGHER JEE
SUCCESS RATE

4x

HIGHER NEET
SUCCESS RATE

500x

TOPPERS FROM
MANGALURU

50x

SCHOOL
TOPPERS

Global Universities

Stanford, Harvard, MIT, Johns Hopkins, Duke,
Carnegie Mellon, ETH Zürich, Cambridge,
Oxford, CNRS France

Research Institutions

CMI Chennai, IISc Bangalore,
ISI Kolkata/Bangalore,
IISERs (Kolkata, Pune, Thiruvananthapuram)

IITs

Bombay, Delhi, Madras, Kanpur, Kharagpur,
Guwahati + BITS Pilani, IIITs

Medical Colleges

AIIMS (Delhi, Jodhpur), JIPMER, AFMC,
KMC Mangalore, BMC Bangalore

CFAL Alumni report smoother transitions into undergraduate study. The reasoning, independence and comfort with complexity developed in Foundation remain valuable well beyond entrance examinations.

BEGIN THE JOURNEY

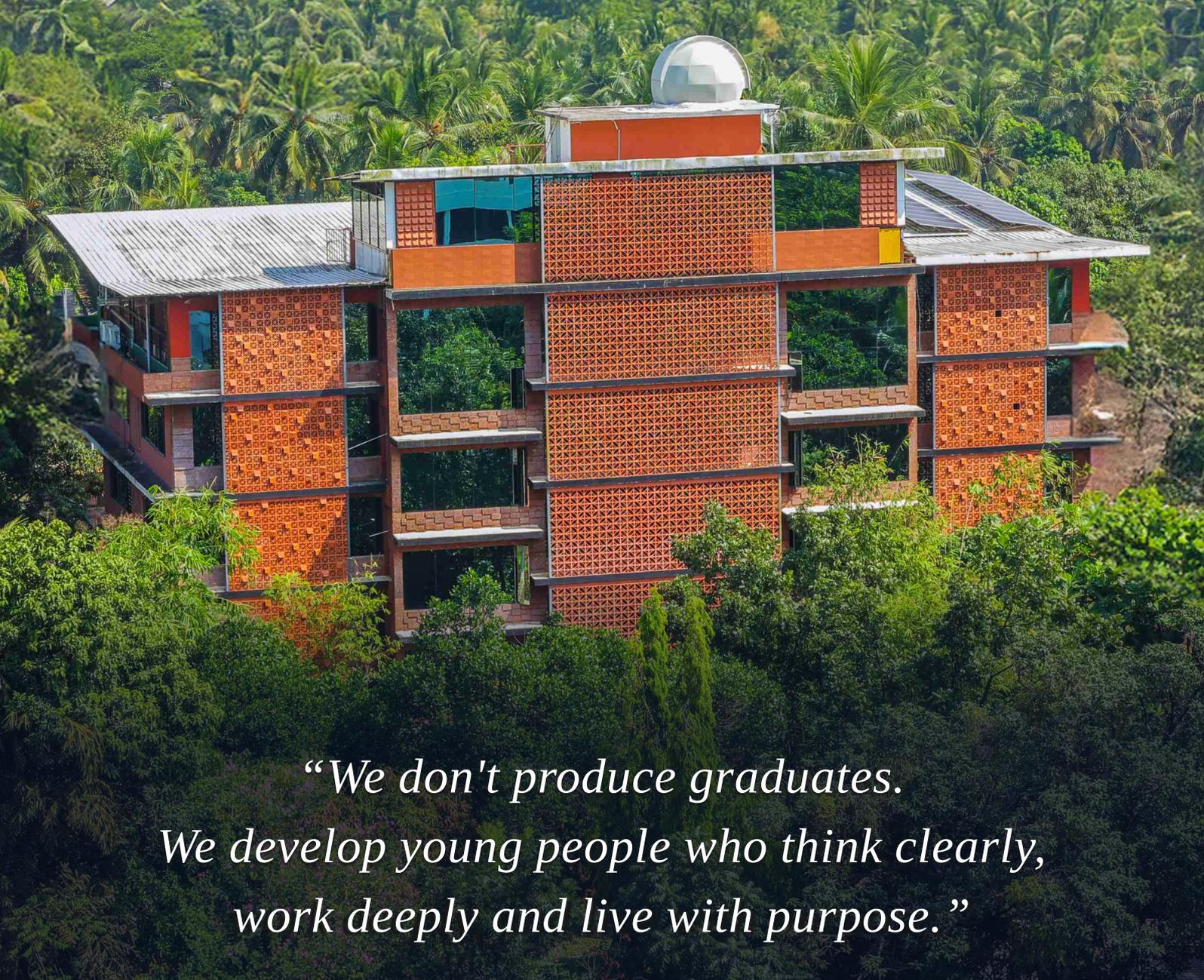
Is CFAL Right for Your Child?

The best time to build a foundation is before you need it.



- ✓ Curious - asks "why" before "how"
- ✓ Sincere - willing to work hard and grow
- ✓ Wants depth - understanding, not just marks
- ✓ Ready for a long-term journey of excellence

*We're NOT looking for students seeking shortcuts,
or families who measure success only by rank.*



*“We don't produce graduates.
We develop young people who think clearly,
work deeply and live with purpose.”*

*20+ Years of Building Foundations
for India's Brightest Minds*



SCHEDULE A CONVERSATION

Let's understand your child's strengths, aspirations and readiness.

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