



Math + Programming

Weekly Clubs within schools

An IISER Alumni venture bringing the best academic practices from universities like MIT/Harvard/IISERs to Indian Schools

Context



IOI is the 2nd largest Olympiad in the world, considered to be the Olympics of programming, with over 84 countries attending, is patronized by UNESCO.

India won just one gold medal, in the last 16 years.

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Context



- CodeChef are collaborating with IARCS to improve situation at the grassroots, by improving programming talent in Hyderabad.
- Sciensation is executing the programme in Hyderabad, by working with students of grades VI- XII, by introducing them to Theoretical Computer Science and Programming.
- CodeChef platform lets students practice for IOI, with an automated tool to evaluate the programmes. CodeChef also serves like a profile for a student when he/she applies for a job or a university.

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Tarun's Profile



TEDx speaker, education entrepreneur, IISER Pune Alumnus, studied courses around Game Theory, Mathematics, Theoretical Computer Science.

Worked with Padma Bhushan Dr Vijay Bhatkar (team leader of PARAM Supercomputer) and Prof R.Ramanujam (Professor, IMSc Chennai, renown science communicators)

2nd position all over Maharashtra, in Madhava Mathematics Olympiad by NBHM and TIFR.

5th position all over Andhra Pradesh in AP Mathematics Olympiad by APAMT.

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TEACHER'S PROFILE: Mr Tarun, Founder, sciensation.tv



BS, MS at IISER Pune,
Mathematics/Theoretical
Computer Science/Game Theory

Undertook research projects at
IISER Pune, IIT Hyd, IIMSc Chennai

Started teaching at 16, Sciensation
at 19. Teacher Training at 25

DOUBLE OLYMPIAD MEDALIST
2nd position all over Maharashtra, 2010
5th position all over AP, 2006

CLEARED IITJEE/CAT (3754, 97.7%)
but chose IISER Pune/startup

Produced TV Shows/ competitions,
reaching 150+ schools (4 states)



STRATEGY

MATHEMATICS

DESIGN THINKING

CRITICAL READING

CREATIVE WRITING

MEDIA PRODUCTION

EXPERIMENT DESIGN



MADHAPUR NALLAGANDLA BOWENPALLY
GACHIBOWLI AS RAO NAGAR

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Sciensation Profile



6yrs, 150+ schools
 Young (under 26) team
 20+ Socratic Dialogues
 Diverse Topics
 Only org working on Philosophy at school level

2017 **PROGRESS REPORT TO BRNO**
YEAR IN REVIEW

2017 **WACK YOUR EMPLOY**
LEARN STARTUP METHODOLOGY

2017 **CONTRIBUTE THE**
CONSTITUTIONALLY

2017 **TRAVEL TO**
LEARNING BY QUESTIONING

2016 **SCIENTIATION'S**
REINVENTION LIVES LIVE!

2016 **TECHNOLOGICAL**
FUTURE OF EDUCATION IN SCHOOLS

2016 **SCIENTIATION'S**
LEADERS PLANS

2016 **IDEAS OF IDEAS**
SOCIAL SCIENCE

2015 **REALITY SHOW**
SCIENTIATION'S GENERAL DEBATE

2015 **SCIENTIATION'S**
POWER RANKING

2016 **SCIENTIATION'S**
QUESTION MARKS COMPETITION

2016 **GENERAL DEBATE**
SUSTAINABLE SOCIETIES

2014 **SCIENTIATION'S**
RESEARCHERS

2013 **SCIENTIATION'S**
EVOLUTION

2012 **SCIENTIATION'S**
BRAINY GAMES

2011 **SCIENTIATION'S**
EMERGENCY

THE MAN HINDER
School students show the way

Richard P Feynman
The questions of the students are often the source of new research. They often ask profound questions that I've thought about at times and then given up on, so to speak, for a while. It would take me a very long time to think about them again and see if I can go any further even. The students may not be able to see the thing I want to answer, or the scientist's want to think about, but they remind me of a problem by asking questions in the neighborhood of that problem. It's not so easy to remind yourself of these things.
So I find that teaching and the students keep life going and I would never accept my position in which nobody has invented a happy situation for me where I don't have to teach. Never.
- Richard P Feynman

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Incentives



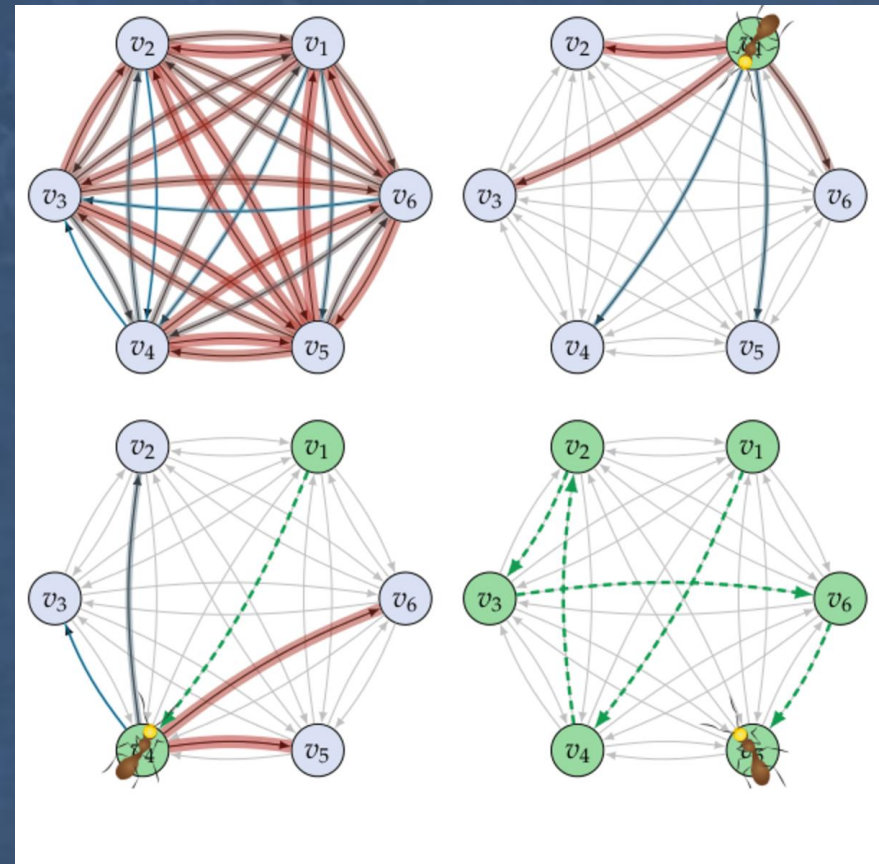
- Students who clear ICO get direct admits into IIT Hyd, IIT Delhi, CMI Chennai.
- IOI is the world's second largest Olympiad called olympics of programming, recognized by universities worldwide.
- Malvika Joshi, a homeschooled child, got into MIT after being rejected by IIT, basis her IOI performance.

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Curriculum



- Algorithms
- Data Structures
- Theory of Computation
- Python Programming



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Logistics



- Sciensation will visit **once a month, on a voluntary basis. Max 10 students per school.**
- Monthly meet-ups for students of all schools organizing the club.
- Problem-sheets for students to practice **every week.** Will solve previous years' **ZCO/ZIO/ICO** questions for Olympiad practice.
- Orientation ahead of Sciensation events/competitions/winter-school/summer school on Programming and Computer Science.

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Coding and Computational Thinking at schools!



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