

MATHEMATICS & PROGRAMMING CLUBS





Students deliberate on APJ's ideologies

OUR BUREAU

As part of their effort towards pro-schools, city-based learning in schools, city-based Sciensation organ-ised a Socratic Dialogue' titled "Un-derstanding API- Actuate and Proper a Journey" in the city recently. The aim was to get students to dis-cuss Dr API Abdul Kalam's ideas and the role of youth/students in realising that.

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In this regard, Sriram Kari, moderator and one of the guests opened the discussion mentioning that only few leaders like Dr Kalamand Pandit Jawaharlal Nehruwere popular among children. He urged them to be courageous. Dr Yivek, a visiting faculty of IIIT Hyderahad and one of the guests had put the discussion into context, by saying that he had seen the country change a lot over the last 45 years. He said that students now have a great environment that theys them in knowing many things and that they now have a

chance to ask a lot of good questions.
The event encouraged students to
'ask questions' and be inspired. A dialogue between students and guests ensured they had a live session of the
same.
One of the students said that Kalam's
vision 2020 was inspired by a school
student who told Kalam that her vision
for the future was to see India as a developed country and that she felt that
this could be the reason why Dr Abdul
Kalam spent a lot of time with school
students.

Later, CalculusKids, a team of school
students of Sciensation Afterschool
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who explain Calculus using Feynman
Technique, performed a skit using research based learning methodology
and had then connected their ideas
with Dr Kalam's vision. They requested
the students to think original and that
it is okay to mistakes, they said that the
message of their skit was to not memorise, but to understand what they
learn.

Why should we remain silent in class?

Students discuss intermuty polaron







Breaking down Kalam through Socratic dialogue

CITY BUREAU

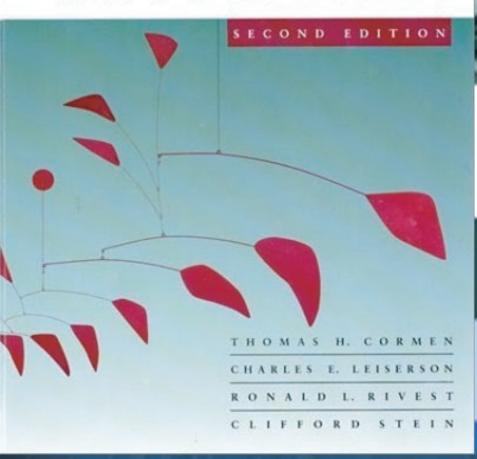
Sciensation media Sciensation media firm organised a Socratic dialogue, 'Understanding APJ- Actuate and Proper a Journey', for students to discuss APJ Abdul Kalam's ideas and the role of youth and students, at Phoenix Arena Art and Cul-Arena Art and Cul-tural Space, Konda-pur, on Saturday. K Sriram, one of

guests for the student's dialogue, said Kalam and Jawaharlal Nehru Jawaharlal Nehru were popular among children as they were very few who had the courage to address children. "Older people sometimes may not react to the blunders in a speech whereas children do react which makes it react, which makes it important to make sense while we address children. This is the reason why few people choose teaching profession," he said. Vivek, visiting fac-

ulty of International Institute of Informa-tion Technology, Hyderabad spoke.

Computer Science Curriculum

ALGORITHMS





Algorithm Design

Jon Kleinberg Eva Tardos

many comment

PEARSON

- Intro to Computer Science
- Data Structures
- Sorting Algorithms
- Greedy Algorithms
- Graph Algorithms
- Recursion
- Dynamic Programming

Several IT companies have been preferring Data Structures/ Algorithms based assessments to screen candidates on problem solving using programming.

- Basics of Python
- Conditionals
- Loops
- Functions
- Lists' and Strings' functions
- File Handling(optional)

We will focus more on computational thinking than programming.

Students can switch between languages through flow diagrams.

Students will code and solve previous years' ZCO/INOI problems.

International Olympiad in Informatics



- The olympics of programming, is patronized by UNESCO and IFIP
- World's 2nd largest Olympiad, after IMO.
- -84 countries participated in IOI 2017
- IIIT Hyd, IIIT Delhi, CMI Chennai admit students based on ICO Scores.

First Level: ZCO/ZIO

ZCO(C, C++, Python or Java) ZIO(Coding not required)

Second Level: INOI

126 students cleared ZIO2017 and 106 students cleared ZCO2017 for INOI2018

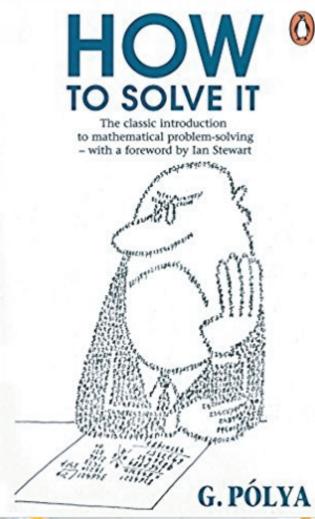
Third Level: IOITC

27 students were selected for IOITC 2018 through INOI2017

Fourth Level: IOI

4 students represent India at IOI

HEURISTICS



George Polya was one of the greatest Mathematics teachers and has catalogued several heuristics in his book "How to Solve It"

Sciensation teaches Mathematics/ Computer Science using Polya philosophy.

- Understand the problem
- Make a plan
- Implement the plan
- Learn from the experience

Students are given new heuristics for solving problems and verifying answers.



EXAM STRESSBUSTERS



- Real world examples
 (for instance Uber/astronomy examples for similar triangles)
- Feynman Technique Similar Triangles were explained using an inflated balloon. Corresponding parts are called cousins.
- Writing all the required steps Students are explained how proof writing/explaining steps is simmilar to movie script writing.
- Why Study Mathematics Students who lose motivation to do math are told about Mathematician turned historian Prof Kosambi.

Why do this?

- Motivates students to do Math using Mathematics
- Prerequisite diagnosis to boost academic performance.
- Solves math anxiety. Sciensation makes student open up about the emotions which they experience while solving problems.
- Simplify concepts using Feynman Technique, boost confidence.
- Tips/Hacks on writing steps carefully and avoiding silly mistakes.

AFTERSCHOOL CLASSES

Locations: AS Rao Nagar, Bowenpally, Gachibowli , Habsiguda, Kukatpally



Students pick up interest in Mathematics/Problem Solving during our After-School Classes and gear up for IITJEE/Olympiads and other challenges.



Siya, a 6th grader, team leader of CalculusKids skit, presenting about Sciensation System of Learning at IISER Pune's Social Initiatives.

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, IMSc 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)













2017

TO KNOW*
YEAR IN REVIEW

2017 HACK YOUR MVP
LEAN STARTUP
METHODOLOG

CK YOUR MVP'17

2017 CONSTRUCTIVE CONSTITUTION 13

2017

Sciensation 16

2016

AMA ATEA

2016



2016



2016 IDEA OF INDIA 16 SOCIAL SCIENCES



2015 EKALAVYA'IS BERMUDA TRIANGLE



2015 SCIENSATION'IS
ADVERTISING
MANTHAN, TELLAPLIS



2016 QUESTION ASKING COMPETITION



2016 GITANJALI REVISIONIN



O 1 4 SCIENSATION



013 SCIENSATION I



2012 SCIENSATION*12 BINARY SEARCH



2011 SCIEN





keep life going, and I would never accept any position in which somebody has invented a happy situation for me where I don't have to teach. Never.







HYDERABAD

'Why should we remain silent in class?'



SPECIAL CORRESPONDENT

HYDERABAD, OCTOBER 08, 2017 22:57 IST UPDATED: OCTOBER 09, 2017 07:39 IST



Film Director Shekhar Kammula with the students who debated on "Reforming Education" at the audio launch of the movie 'Egise Tarajuvvalu' in Hyderabad on Sunday.

Students discuss 21st century pedagogy

'Remain silent' is the oft-repeated statement of some teachers in schools who get irritated on questions being raised by students in the class. And a 5th grade student raised this issue asking, "What is the purpose of sitting in the class if I am unable to raise questions and clarify the doubts?"