



RASHTIYA AVISHKAR ABHIYAN

Prof. M.P. Rajan, Dean(R&D)

IISER THIRUVANANTHAPURAM



**Some of the Key Initiatives
taken by
IISER-TVM**

**CENTRE OF EXCELLENCE IN
CONTINUING EDUCATION FOR
SCHOOL SYSTEM**

IISER@SCHOOL

**GIFTED
CHILDREN**

**QIP/INDUCTION
TRAINING
PROGRAMME**



IISER@SCHOOL



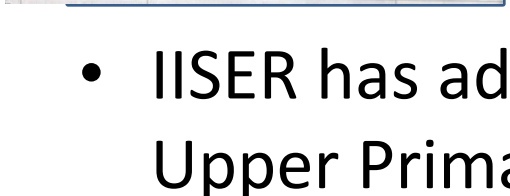
- Mobile unit programme to reach out school children to encourage them to come forward for doing scientific research(Science & Maths).
- One day workshop (Fac./Staff/Studs.).
- IISER@SCHOOL was launched on Sept. 28, 2015 at Vithura Govt. Higher Secondary School.
- The mobile unit will be covering around 20 to 30 schools in an academic year all over kerala with a target of covering around 100 to 150 schools in next 5 years.

Science in depth at schools

Special Correspondent

THIRUVANANTHAPURAM: Indian Institute of Science Education and Research Thiruvananthapuram has launched a programme to attach scientists to schools and colleges in the region for scientific research.

IISER Director V. Ramakrishnan said the programme will be implemented in Government schools in Thiruvananthapuram, a middle west coastal city of 10 lakh people. He said the programme would send government school and college students to IISER for research projects. He said the programme would be implemented in Government schools in Thiruvananthapuram, a middle west coastal city of 10 lakh people. He said the programme would send government school and college students to IISER for research projects.



Expert members of IISER@School programme interact with students of GHSS, Vithura, on Wednesday.

high school students at Vithura, a village in the Vithura panchayath, were shown a project on DNA extraction and protein synthesis. The students were shown a project on DNA extraction and protein synthesis. The students were shown a project on DNA extraction and protein synthesis.

122 schools

IISER outreach continues in the region. The outreach programme will cover 122 schools in the region. The outreach programme will cover 122 schools in the region.

According to IISER, the programme is aimed at introducing high school students to science through experiential learning and demonstrations. The programme will cover 122 schools in the region.

IISER@SCHOOL

- IISER has adopted Vithura Government Upper Primary and Higher Secondary School for next 5 years for its development and make it as a model school.
- All 10 schools in the panchayath will be mentored for its development.
- IISER graduate students will give crash training programme for +2 level students in VGHSS school for getting admission in IISER.
- Support to setup smart classrooms and Math Lab.

EXPRESS

...LIFE: RAINDROPS
Rain makes mundane surroundings and everyday sights more beautiful. Kaviyoor Santhosh zoom in ■ PAGE 4

MILMA EXTENDS VISTAS FOR WOMEN
Thiruvananthapuram Regional Co-operative Milk Producers of Milma is extending its employment guarantee project that more women join the industry ■ PAGE 3

Igniting Scientific Temper among School Students
IISER Thiruvananthapuram has launched IISER@School, a programme to take science education to schools across the state

by Archana Ravi

Three children at Government Higher Secondary School, Vithura, were awed the other day, as they watched a fragrant string of jasmine turn into powder. They had been told that it was science, not magic. That it was a mere chemical reaction when jasmine would be dipped into liquid Nitrogen. Their jaws dropped, nevertheless.

It was the launch of IISER@School, a programme undertaken by Indian Institute of Science Education and Research (IISER) Thiruvananthapuram to take science education to schools across Kerala. Awe and wonder were constant features at the launching session. The institute's director V Ramakrishnan flagged off the programme. School principal Anitha P R and IISER Dean (R&D) M P Rajan spoke on the occasion.

The Vithura school was the first of 22 schools in Kerala where the IISER@School programme will be executed this year. In five years, the institute plans to cover 100 schools. The schools will primarily be government schools. There will also be aided schools.

IISER faculty, technical staff and students will be travelling to each of the 22 schools with a mini-laboratory. They will conduct a one-day symposium called 'Discovering Science' demonstrating various principles in physics, chemistry or biology. Awe and wonder are sure to flourish in these sessions, as was visible in the Vithura school.

Experiments demonstrating Meissner effect and DNA extraction were met with appreciation. The children for the first time saw a microscope, a paper microscope folds, a paper origami. BS-MS students at IISER livened up the session with quizzes and puzzles. "The programme introduces high school students to the wonderful world of science through a set of experiments and demonstrations that would instill curiosity, awe, and appreciation of science in young minds," said M P Rajan.

IISER outreach committee and Anvesha, a students' science club at IISER, is organising the programme.

If any government or aided school intends to invite IISER team to visit their school, they should contact Dean (R&D) at dean@iisertvm.ac.in

management

months' time to recuperate from the physical and mental exhaustion felt over five years. My days started early every day and my presence at home was a rarity," said Chandrika. She smiled at a question seeking clarification over speculations that she is going to contest for the Assembly elections.

Even though the centralised definitions of waste management for a municipal area had gone up in smoke during her tenure, the Mayor expressed her satisfaction for being able to put in place diverse decentralised mechanisms as alternatives and said they would be the ideal way for the future.

A BS-MS student at IISER demonstrates a scientific experiment to students at Government Higher Secondary School during the inaugural session of IISER@School

Gifted Children Programme

- Special Training programme for students at primary, upper primary, secondary and higher secondary level.
- Science aptitude test will be conducted.
- 4 one week programmes per year.
- 50 students will be selected from each level and will be given special training in science and mathematics and also help them to qualify science and mathematics Olympiad.
- 20 programmes in 5 years of time.
- Announcement of this programme will be made soon.

QIP and Certified Induction Programme for School Teachers

- 4 one week workshop in science and mathematics at different levels.
- Workshop will focus on Teaching Methodology; Model Building Techniques and Knowledge Enhancement.
- 100 participants in each workshop.
- 20 programmes in next 5 years.
- We are working out the details to organize the first programme in December or during summer vacation time.

Programmes with State Government

- IISER will help state government in mentoring schools.
- 6 government schools have been identified by state government.
- State government is working out the modalities to implement RAA activities in those schools initially and IISER has already extended all its support to achieve the objective of implementing RAA in schools.

Other Outreach Activities – College Level

- One Day Symposium on Promoting Mathematics and Science at college level in each district of Kerala coordinated by one of the colleges in the district.
- One Day Regional Scientific workshops in Tamilnadu in association with Tamilnadu Science and Technology Centre.
- Science Talent Enrichment Programme(STEP) in association with Kerala State Council for Science, Technology and Environment.

Thank You