SASTRAPOSHINI
Enriching science learning at schools

“There is only one solution for India’s economic problems and that is science, more science and still more science.”
Dr. C. V. Raman

Kerala State Council for Science, Technology and Environment
Knowledge in science is essentially achieved through cumulative experience of knowing by doing it.

The advancement in science and technology we see today, are the fruits of the hardwork by brilliant and dedicated scientists and researchers. Most of them developed their passion towards science as soon as they performed their first experiment in the lab at school. To create more enthusiasm, innovativeness and free thinking in the young minds, the students have to get involved in real laboratory situations with proper guidance.

Sastraposhini is a programme envisaged by the Kerala State Council for Science, Technology and Environment (KSCSTE), for strengthening science education in schools of Kerala. Under the programme, model science laboratories are established in selected schools of the State to provide a better learning environment.

- Stimulate interest in experimental science
- Provide an opportunity for self learning
- Encourage novel science projects from students
- Provide advanced training to teachers to cope up with latest teaching skills using laboratory experiments
- Design low cost laboratory kits
Modus operandi

APEX RESOURCE GROUP
- Constituted by KSCSTE to monitor the implementation of the Sastroposhini Scheme
- Consists of subject experts/academicians/nominees from DPI
- Selects the schools to establish Sastroposhini laboratories

MONITORING COMMITTEE
- Consists of expert members from different subject areas constituted by KSCSTE
- Evaluates the status of established laboratories
- Guides the faculty to initiate steps for the smooth functioning of the laboratories

MANAGEMENT COMMITTEE
- Consists of Principal/HM, science teachers, students, representatives of PTA constituted at school level
- Co-ordinate the day today functioning of each laboratory

SELECTION OF SCHOOLS
- Applications are invited every year
- Apex Resource Group selects the schools based on recommendations by Monitoring Committee
- Principals/HM of the selected schools are invited to create awareness, essential for the fruitful implementation of the programme

TRAINING PROGRAMME FOR TEACHERS
- Two teachers each in Physics, Chemistry and Biology are invited to participate in a training programme
- Scientists/academicians offer classes on creating science awareness, good laboratory practices, setting up of laboratories and practical demonstrations
- Teachers will be encouraged to carry out innovative projects in science education for children
- Student teacher manuals and the visual experimental aids and models are provided to the selected schools

SETTING UP OF LABORATORIES
- Apex Resource Group selects the laboratory items to be supplied based on the school curriculum
- Supply is directly made to the schools by the agencies selected by the Council through open tender process
- Separate rooms are allocated for each laboratory and an initial grant is released for refurbishing the rooms
- Trained teachers will be in charge of each laboratory

Inception
The programme was launched by the Council in association with the State Education Department in the year 2003.
Unique features

- Promotes investigative and project oriented learning skills
- Inculcates innovation, critical thinking, problem solving and analytical expertise
- Develops curiosity, confidence and reasoning abilities
- Develops separate study circles among students
- Students from nearby schools can visit the model laboratories
- Possibility of networking among Sastraposhini laboratories of different schools

Glimpse of Laboratories

Government has successfully implemented the scheme in 161 High Schools of the State till 2015

CONTACT DETAILS

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