

# A Study of Effectiveness of using Laboratory Method in Teaching Science at Secondary School Students

**Charu Singh and Chaitra Shetty**

Assistant Professor

Nirmala Memorial Foundation College of Education, Mumbai, Maharashtra, India

**Abstract:** *One of the prime aims of the Government of India is the Universalization of Secondary Education (USE), which has resulted in large-scale expenditures in terms of additional schools, classrooms, teachers, and laboratory facilities needed to meet the challenges of providing quality 21st century education. Laboratory method in teaching science helps the students work independently become aware of the problems and give them the liberty to find the solution for the problems. This method is one of the important methods of teaching science and it forms an integral part of effective science teaching. Under this method, teacher encourages the students to derive various scientific laws and principles on their own by getting personally involved in the experiment work. Through this method, teachers develop the science process skills of various kinds in the students. Thus, any form of laboratory method can be used by the teacher. But, it is very necessary to plan and organize laboratory activities carefully. Pre-laboratory instructions should be provided by the science teacher well in advance of time as through it students will get prepared for taking active part in laboratory activities*

**Keywords:** Universalization of Secondary Education (USE), Laboratory method, Pre-laboratory instructions Statement of the Problem