

Shri Shivaji Education Society's  
**Shri Shivaji Science & Arts College, Chikhli, Dist. Buldana.**  
**Department of Physics**  
**Best Practices (2019-20)**

## **II. In-House fabrication of Experimental Kits for students.**

**1. Title of the Practice:** In-House fabrication of Experimental kits for students.

**2. Objectives of the Practice:**

- i) To enhance participation of students in experimental learning.
- ii) To fabricate cost effective experimental kits in the department.
- iii) To facilitate students with basic training about electronic components handling, designing, maintenance, etc.
- iv) To save money from the departmental budget every year.

**3. The Context:**

The best practice mainly features to motivate student's scientific temper and critical thinking processes. Physics cannot be learned without experiments. Hence, students have to perform various experiments throughout the year. Every college, normally purchase ready-made engineered experimental kits and students are involved only in the noting the readings. In doing so, they are not exposed to visuals and function of various components in the kits. We provide students an opportunity to look inside the kits and design and fabricate on their own.

**4. The Practice:**

Department of Physics has been actively involved in the fabrication and maintenance of experimental kits for the students every year. These experimental kits are best substitutes for the ready to purchase available kits in the market. The experimental kits are very cheap as compared to market rates and all components are easily accessible to students.

**5. Evidence of Success:**





## 6. Problems Encountered and Resources Required:

- i) Raw materials for the fabrication of experimental kits are not generally available in the local market.
- ii) Faculties/students have to purchase these items from Amravati/Nagpur that consumes extra time and money.