

7.2.1 Best practices

Best Practice: 01

1. Title of the Practice: Reduce, Recycle, Reuse

2. Objectives of the Practice:

- To encourage students to use chemicals in minimal quantity during the practical
- Some chemicals are recycled, and reused in the practical again

3. The practice:

- Usage of minimal quantities of chemicals
- Avoiding usage of hazardous chemicals and procedures wherever alternative methods could be followed
- Some of the solid chemicals and solvents are recycled and reused, such as;
 - Acetanilide which is prepared by the students by green method during '*Organic Preparations*' practical is reused after recrystallization in '*Qualitative analysis of Organic Compounds*' practical.
 - Fe_2O_3 prepared gravimetrically is reused in '*Estimation of Fe in haematite ore*'.
 - Several compounds prepared by the students are preserved and reused whenever necessary.
 - Some of the volatile solvents are distilled and reused again such as acetone, ethyl alcohol, methyl alcohol.

4. Evidence of Success: The prepared compounds have been stored in the bottles and reused when required.

5. Problems Encountered and Resources required:

- Most of the time the compounds prepared by the students are not pure enough to be reused again.
- Some compounds decompose within shorter time which cannot be reused, and such compounds are disposed in a proper manner.



Best Practice: 02

1. Title of the Practice: Use of rain water

2. Objectives of the Practice: Collection of rain water and usage in practical

3. The practice:

- Usage of minimal quantities of water while performing experiment and during washings.
- Usage of rain water for experiment and washing purpose.

4. Evidence of Success: The rain water is collected and stored in a clean container, and used whenever necessary.

5. Problems Encountered and Resources required:

- As instrumental and titrimetric experiments require double distilled water to get accurate results, rain water stored for longer time get contaminated and cannot be used.

Best Practice: 03

1. Title of the Practice: Issuing used aprons to under privileged students

2. Objectives of the Practice: Encouraging final year students to lend their aprons to the department which shall further given for usage to under privileged students

3. The practice:

- The final year students are requested to lend their aprons to the department
- The aprons received are thoroughly washed, pressed and issued to under privileged students

4. Evidence of Success: The practice followed was extremely appreciated by the students



Best Practice: 04

1. **Title of the Practice:** Hands on training on *Candle Making, and Preparation of Soaps and Detergents.*

2. Objectives of the Practice:

- Helps students to earn while learning and shall continue the same in future
- Trained students shall become an entrepreneur and shall start up a small scale industry
- Well trained students shall give training to others
- Empowerment of women

3. **The practice:**The interested students, both men and women attenders of the college are given hands on training on Candle Making, and Preparation of Soaps and Detergents.

4. **Evidence of Success:** The practice followed was extremely appreciated by the students and attenders of the college.



Best Practice: 5

1. **Title of the Practice:** My College, My Tree and Datti-Nidhi scheme

2. Objectives of the Practice:

- To promote conservation of environment and ecosystem of the campus.

3. **The practice:** **Botany department instructed the** students to seed a plant and nurture it till their completion of the degree under My College, My Tree scheme. Also, the teaching staff members of the college will seed a plant and nurture it with all care under Datti-Nidhi Scheme.

4. **Evidence of Success:** The practice followed was extremely appreciated by the students and staff members of the college.