

## Best Practice : 1

### Title: Fostering Students and Faculties for Green Practices:

#### Goal:

- To enable the students and faculties to take interest in Green practices.
- To encourage behavior that will create a more sustainable future in term of environmental integrity, economic viability and a just society for present and future,

#### The Context:

- In the chemistry laboratory, during practical session accident occurs frequently due to use of harmful chemicals, practical and students injured, also it creates pollution and damage sustainability. So, this type of initiative creates awareness for environment among students and faculties.

#### The practices:

- Students are encouraged to present posters in the State/National/International level conferences on Green chemistry subject.
- To create awareness among student's community, Eco-club has arranged poster competition on save environment at college level.
- Various type of project work is given to PG students on environmental benign synthesis.
- Awareness is created among students about green methods which are useful in organic and inorganic qualitative analysis.
- E-content is developed by the faculties for students use.

#### Evidence of success:

- More than 92 students and faculties have presented posters on Green Chemistry topics at different level seminars.
- More than 75 students have completed their project work on environmental benign synthesis and reduce waste, save money, time and environment and also save energy.
- 13 students have presented posters on "Save Environment" topics at college level under the guidance of eco-club.
- Students are motivated for Eco-friendly methods which are useful on organic and inorganic qualitative analysis.
- One state level seminar is organized by the chemistry department on "RECENT GREEN TRENDS IN CHEMICAL SCIENCES" in 2015-2016. Total 17 posters are presented on Green chemistry subjects.
- One of our PG student Mr. Arun Malaviya won award in the state level seminar on Eco friendly synthesis of Schiff base using natural acid catalysts, Mr. Kuldeep Chauhan won third prize in the state level seminar and 05 students of B.Sc won 1<sup>st</sup> and 3<sup>rd</sup> prize at regional level seminar.

#### Problems Encountered and Resources Required:

- The institution has no authority for changing of practical syllabus
- No availability of green technologies at college level, so, more funds require for green chemistry practical at college level.

## Best Practice : 2

### Field Project on Microbiological Water Analysis of Moti vahorwad:

#### Goal:

- To create awareness among students and society about diseases obtain due to contaminated drinking water.
- To aware authorities about contaminated drinking water supplied by the Nagarpalika.

#### The Context:

- Motivahorad area is situated in the Himatnagar. In the month of September to October number of cases of Diarrhea, Vomiting, Dengue and Typhoid were observed in each house of the area. The complaint of the people was that the potable water supplied by the Nagarpalika is very dirty and cannot use for drinking purpose. So, to know the reasons of this problem, we have started project of Microbiological water analysis.

#### The practices:

- Water is collected from Moti vahorwad area of Himatnagar in sterile screw cap water bottle, after that perform SPC for quantitative analysis and MPN for qualitative analysis of water. We have also performed MTF for confirmation of fecal contamination. Based on data analysis of those three test we have prepared water analysis report.

#### Evidence of Success:

- We found that dirty water supplied was used in this particular area and this water may be responsible for particular diseases.
- Our study suggests that there was interested bacterial contamination of water from the source and points of use, which was the one reason in our study.

#### Problems Encountered and Resources required:

Less support of society members and less interest of students is a little problem for this project.