

Department of Chemistry

Best Practice

Sr. No.	Title of the Practice	Objectives	Context	Practice	Outcome	Challenges
1	SOIL ANALYSIS	To provide an accurate assessment of the soil fertility to make fertilizer recommendation. To increase the awareness of fertilizer effects on environment. To determine where fertilizers or manure is applied for soil to increase the yield.	Soil analysis is used to determine the level of nutrients found in a soil sample. Soil testing is helpful for farmers to increase the crop yield. Crop yields are determined by a variety of factors including crop variety selection, available moisture, soil Fertility, crop adaptation to the area, and the presence of diseases, insects, and weeds. The soil analysis and its interpretation deal only with the fertility level (plant nutrients) of the soil. Recommended fertilizer will provide sufficient nutrients for the best possible yields. Other factors of production or management may still cause low yields, even though nutrients are adequate.	Students of B.Sc. Final year chemistry will carried out the analysis of the soil samples with the help of Soil analysis Kit under the supervision of departmental faculties, after analysis a detail report or analysis were prepared. The soil analysis report and recommendation about health of soil is handover to concern.	This practice developed awareness about the soil quality which is use full for the good health of the crop. The Practical skills of students of chemistry were improved.	Additional instruments, chemicals and glassware are needed when large number of samples are collected, which stretch annual budget of the department

2	WATER ANALYSIS	To Increase the awareness about parameters of drinking water. To provide accurate assessment of water for drinking purpose. To make aware students about the effect of impure water on human being.	The water analysis is used to determine the permissible limit of various parameters of drinking water in water sample. The quality of water were measured by various methods like physical, chemical and biological. Several factors can impact water quality, including: pollution, human activities, natural processes etc. Here the water analysis and its interpretation deal only with the quality water for drinking purpose by physical and chemical methods.	Students of B.Sc. Final year chemistry will carried out the analysis of the water samples with the help of water analysis Kit under the supervision of departmental faculties, after analysis a detail report or analysis were prepared. The water analysis report handover to concern.	This practice developed awareness about the water quality which is use full for the good health of the human being. The Practical skills of students of chemistry were improved	Additional instruments, chemicals and glassware are needed when large number of samples are collected, which stretch annual budget of the department.
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