

Government Degree College, Koratla
Department of Chemistry

Certificate Course – WATER QUALITY PARAMETERS

Resource Person: N.VASAVI, Assistant Professor of Chemistry

Course Overview: We know the importance of water particularly fresh uncontaminated water and its conservation for the survival of mankind. Water demand for fresh contaminated water is increasing to ensure good health and well being of ever growing population. Therefore, it is essential to take effective measures to augment the availability of uncontaminated water. Rainfall is one of the purest forms of water. Therefore, rainwater harvesting by capturing runoff water from agriculture catchments as well as roofs and its storage for multiple usage can help in achieving this objective. However, the quality of all types of water including rainwater is always in question for public health purposes. In order to ensure availability of good quality water, it is essential to analyze different physical, chemical and biological parameters of water quality. It will help in taking remedial measures for enhancing the availability of good quality water.

Course Learning Outcomes:

After attending this course, you should be able to:

- outline physical and chemical characteristics of water, Water Quality
- acquaint yourself with types of micro-organisms present in water and related diseases,
- describe the method of collection of water sample for testing purposes and
- specify drinking water standards prescribed by the Bureau of Indian Standards.

Percentage of Students attended for the Course:

SYLLABUS (Duration of Course 30 Hours)

Introduction, Physical Characteristics of Water - Colour, Taste and Odour, Turbidity, Temperature, Electrical Conductivity, Chemical Characteristics of Water, pH of Water, Acidity, Alkalinity, Hardness, Nitrogen Content, Dissolved Gases, Chloride Content, Fluoride Content, Microbiology of Water, Bacteria, Viruses, Plankton, Algae, Fungi, Protozoa, Water Borne Diseases, Water Quality Analysis, Determination of Total Solids, Determination of pH and Electrical Conductivity, Drinking Water Quality.

List of Students Participated (BSc)

S.NO	H.NO	Student Name	Class	Group
1	18077046445001	D. Usma	III	BZC
2	18077046445003	K.Mounika	III	BZC
3	18077046445006	P.Sunitha	III	BZC
4	18077046445007	R.Sandhya	III	BZC
5	19077046445001	Anjum Begum	II	BZC
6	19077046445002	A.Maheshwari	II	BZC
7	19077046445005	G.Sangeetha	II	BZC
8	19077046445006	G.Ruchitha	II	BZC
9	19077046445010	K.Sandhya	II	BZC
10	19077046445011	M. Bhavani	II	BZC
11	19077046445014	P.Ruchitha	II	BZC
12	19077046445015	S. Ramyasri	II	BZC
13	19077046445018	Shazia Naaz	II	BZC


Course Coordinator

(N. Vasari,
Asst Prof of Chemistry)


Principal

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KORATLA, DIST: JAGTIAL

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Certificate of Appreciation

*This is to certify that _____ has successfully
completed the certificate course "Water quality parameters"*


Course Coordinator


Principal
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