

**Water Analysis and Preventive Measure for  
Water borne diseases in urban areas**

To  
The principal BJRGDC  
Hyderabad

Dt. 31/12/2016

Respected Madam,

Sub : Chemistry department - 10 days Certificate program on " Water Analysis and Preventive Measures for Water borne diseases in urban areas" to BSc students from 10/01/2017 to 24/01/2017-premission -Reg

It is to bring to your Kind notice that, chemistry department is going to offer 10 days Certificate program on " Water Analysis and Preventive Measures for Water borne diseases in urban areas" to BSc students from 10/01/2017 to 24/01/2017.

I therefore request to issue Permission to conduct certificate course.



Thanking you sir,  
Yours faithfully



I/C Chemistry Department

# IQAC resolution. 2016-2017

As per the IQAC resolution, It was decided by the Dept Chemistry to conduct a Certificate program on **Water Analysis And preventive measures for borne disease in Urban areas** in the month of January 2017 for the B.sc final year **BZC, MPC** students. The resolutions as follows.

## Resolutions:-

- 1). to send a circular to the final year B.Sc students.
- 2). It has been resolved to prepare the list of students interested for the course.
- 3). It has been resolved prepare a time table and syllabus and schedule of the course.

*(Signature)*

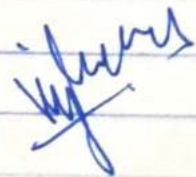
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## Need Analysis of the course

This course is mainly designed to fulfill the contemporary and local needs. It is impossible to keep apart water from nature or life. Water is the key ingredient of our ecosystem. This course is not only for knowledge enhancement but also for sustainable development of environment and healthy attitude of the individual.

Water is an essential part of life, and every one of us should have minimum knowledge for proper and safe consumption of drinking water which will avoid 90% of diseases. This course is not for commercial aspect but to create awareness on request from the students about the safe consumption of potable water and preventing the seasonal water borne diseases in urban areas where this problem is predominant.





## Objectives of The Course

- 1) To study the Sources of water: Fresh water Sources, Ground Water Sources, Saline water Sources.
- 2) To study the types of water: Saline Water, Fresh Water, Potable Water, types of hardness, Temporary and permanent hardness.
- 3) To study hard water treatment: Clarke's Method, Soda lime method, permutit method, Ion exchange method.
- 4) To study the municipal water treatment
- 5) To study the concept of Virtual Water, Blue water, green water, Gray water
- 6) To study the physico-chemical parameters of potable water: Reference standard
- 7) To study the water analysis, practically
- 8) To study The water borne diseases, Pathology, Mortality rates in Urban areas, epidemiology out breaks, preventive measures and treatment.
- 9) To study the concept of water stress, benefits Virtue of rain water harvesting.

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## Outline of the course.

- 1) Sources of water: Fresh water sources, Ground water sources, Saline water sources.
- 2) Types of water: Saline water, Fresh water, Potable water, types of hardness: Temporary and Permanent hardness.
- 3) Hard water treatment: Clarke's method, Soda ash method, permutit method, Ion exchange method.
- 4) Municipal water treatment.
- 5) Virtual water, Blue water, green water, Grey water.
- 6) Composition of water - physical-chemical parameters of potable water: Reference standard.
- 7) Water analysis: practical approach.
- 8) Water borne diseases: Pathology, mortality rates in Urban areas. epidemiology and breaks, preventive measures and treatment.
- 9) Water sheds - Rain water harvesting.

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~~Amu~~

BJR GOVT. DEGREE COLLEGE, BAZARGHAT, HYDERABAD.

DEPARTMENT OF CHEMISTRY

REPORT

10 days certificate course on:

**"Water Analysis and preventive measures for water borne diseases in urban areas"**

The department of chemistry has conducted a 10-days certificate course on "water analysis and preventive measures for water borne diseases in the urban areas". The period of course was from 10/01/2017 to 24/01/2017.

This course is mainly designed to fulfill the contemporary and local needs. It is impossible to keep apart water from nature or life. Water is the key ingredient of our ecosystem. This course is not only for knowledge enhancement but also for sustainable development of environment and healthy attitude of the individual.

Water is an essential part of life, and every one of us should have minimum knowledge for proper and safe consumption of drinking water which will avoid 90% of diseases. This course is not for commercial aspect but to create awareness among the students about the safe consumption of potable water and preventing the seasonal water borne diseases in urban areas where this problem is predominant.

Total syllabus was decided into 9(nine) chapters and time table for 32 classes including 2 sessions and of inaugural and valedictory. Out of 30 classes 20 were classes and 10 were practical. Distribution of the syllabus was done among 5(five) resource persons, which includes Dr.E.Rama Rao, Sri. M Anil Kumar, Dr.E.Yadaiah, Dr. Viplav Duth Shukla, A.Dayanand, A. Vasantha chemistry lecturers and Sri.Mallesham Lab Asst.(Retd.). The syllabus was completed as per the division and time table,

The course was designated by the committee and member with the Principal, chair person, Dr.Ghanshyam Vice principal, Dr. Viplav Duth Shukla A.Dayanand and A.Vasantha as members. It was decided that, Dr. Viplav Duth Shukla HOD to act as course director, A. Vasantha as course co-ordinator and A.Dayanand as course convener.

A practical class for water analysis was conducted by Dr E. Yadaiah along with Dr Shukla and Dayanand. Resource persons explained the use of Water analysis kits for simple and approximate analysis of water.

Roll. No.

Students Name.

107014441003

Shaik Nouman

107014445001

Syed sara Fatima

107014445003

Yasmeen Fatima

107014445004

D. Jayanthi Rethod.

107014445010

T. Prashanth

107014445011

D. Archana

107014445012

Prathyusha

107014445013

G. Rajitha

107014445018

Uzma Sultana

107014445019

Ajreen Fatima

107014445020

Parveen begum

107014445021

Zakiya Begum

107014445022

Ajreen Nilufer

107014445023

Devarapaga Meghana

107014445024

Yasmeen Begum

10701444501

Aerera Pramella

10701444502

Aerera Santhoshi

10701444503

Anem Srikanth

10701444509

G. Marendar Reddy

107014445007

Md. Hussian

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Feed back .

The course was useful in understanding water borne diseases in urban areas

Arचना

The course was useful for understanding disease in water.

Yasheen

understand preventive measure's from water borne disease's.

Prameela.

The course useful In understanding Analytical Skills

Afreen

The Course able to understand water ~~are~~ borne diseases

Santhoshi

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