

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

To
The principal BJRGDC
Hyderabad

Dt. 12/08/2015

Respected Madam,

Sub : Chemistry department - 10 days Certificate program on " Water Analysis Preventive Measures for Water borne diseases in urban areas" to BSc students from 20/08/2015 to 03/09/2015-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 20/08/2015 to 03/09/2015.

I therefore request to issue Permission to conduct certificate course.

Thanking you sir,
Yours faithfully



I/C Chemistry Department

IQAC RESOLUTION 2015-2016

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 August 2015 for the B.Sc final year BZC, MPC students. The resolution 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 & Syllabus and schedule of the course.

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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 ~~the~~ create awareness on ~~request~~ 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.

~~W. M. M.~~

~~W. M. M.~~

Objectives of the Course.

- 1] To study the source of water:- Fresh water source, Ground water source, saline water source.
- 2] To study the types of water:- Saline water, Fresh water, Potable water, types of hardness, Temporary & Permanent hardness.
- 3] To study hard water treatment: Clark'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 physio-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 outbreaks, preventive measure and treatment.
- 9] To study the concept of water sheds, benefits, virtue of rain water harvesting.

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Out line of the course.

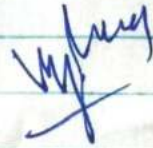
- 1] Source of water :- Fresh water source, Ground water source, Saline water source.
- 2] Types of water :- Saline water, Fresh water, Potable water, types of hardness, Temporary & Permanent hardness.
- 3] Hard water Treatment :- Clarke's Method, Soda lime method, permutit method, Ion exchange method
- 4] Municipal water treatment.
- 5] Virtual water; Blue water, green water, Gray water.
- 6] Composition of water - physio-chemical parameters of potable water :- Reference standard.
- 7] Water analysis :- Practical Approach.
- 8] Water borne diseases :- Pathology, mortality rates in urban areas. Epidemiology out, breaks preventive measures and treatment
- 9] Water sheds - Rain water harvesting.

and

W/m

List of the Students.

Name	Roll no.
1] Maria Noor	107013445001
2] Sumaiya shireen	107013445003
3] Mantlani Pathysha	107013445005
4] Botta Tejaswini	107013445006
5] Ch. Jyothi	107013445502
6] K. Mahesh	107013445503
7] J. Naveesh	107013441503
8] S. Shiva Ramulu	107013441505



Feed back

The Course was very usefull

Shireen

Feed back

The course was informative for understanding water borne diseases.

Shiva.

The course able to understand water borne diseases

Naresh

the course helped us perkenitive measures from water borne diseases

Naresh

~~Shiva~~

~~Naresh~~

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 20/08/2015 to 03/09/2015.

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 pwhich 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 S ri. 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,

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.

A test was conducted at the end of the session for all the participating students to assess the fulfillment of the objectives. All the students were qualified. The suggestions given by the students were recorded and decided to incorporate in the feature course.

In the valedictory function certificates are distributed to the 08 students by the principal Head of the chemistry Department and Present on the occasion

A. Vasantha read the report, Dr.Shukla motivated the students and with A.Dayanand vote of thanks the programme was concluded.



Head of the Department

BJR GOVERNMENT DEGREE COLLEGE, NARAYANAGUDA, HYDERABAD.

DEPARTMENT OF CHEMISTRY-Attendance of Participants For The Certificate Course during the year 2015-16

S.N	NAME OF STUDENT	GROUP	Roll No	date	date	date	date	date	date	date	date	Date
1	Maria Naez	BZC 3rd	1010134 5021	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
2	Sumaiya Shireen	BZC 3rd	107013 445003	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
3	Manthani Prathyaha	BZC 3rd	107013 445005	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
4	Batta Tejaswini	BZC 3rd	107013 445006	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
5	Ch. Jyothi	BZC 3rd	107013 445003	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
6	K. Mahesh	BZC 3rd	107013 445003	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
7	J. Naresh	MPC 11th	107013 441508	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
8	S. Shiva Ramulu	MPC 11th	107013 441505	20/8/15	21/8/15	22/8/15	24/8/15	25/8/15	26/8/15	27/8/15	29/8/15	29/8/15
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10												

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(Signature)
CA Jayaramand