

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

Notice

Dt. 08/01/2018

All the students of BSc BZC, MPC are informed that chemistry department is going to offer 10 days Certificate program on "Water Analysis and Water borne diseases in urban areas" to Bsc students from 17/01/2018 to 29/01/2018. Therefore Interested students are requested to give their names to chemistry faculty immediately.



I/C Chemistry Dept.



Principal

IQAC Resolutions 2017-2018

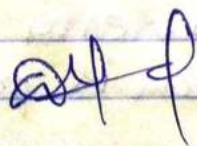
As per the IQAC resolution, it was decided by the Dept of Chemistry to conduct a Certificate program on

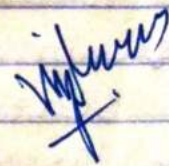
Water Analysis and preventive measures for borne diseases in Urban areas. in the month of January 2018 for the BSc final year BZC, MPC students.

The resolution as follows.

Resolutions :-

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





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 disease in urban areas where this problem is predominant

~~and~~

~~by~~

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, Freshwater, 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 sheds, benefits Virtue of rain water harvesting.

Out-come of the course :

Out line 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 : clark's method, soda lime method, permutit method, ion exchange method.
- 4) Municipal Water treatment
- 5) Virtual Water. Blue water, green water, grey water.
- 6) Composition of Water : physico-chemical parameters of potable water Reference standard
- 7) Water analysis : practical Approach.
- 8) Water borne diseases : pathology, Mortality rates in URBAN areas, epidemiology outbreaks preventive measures and treatment.
- 9) Water Sheds. - Rain water harvesting

~~W. J. J.~~

~~W. J. J.~~

1	107015445501	M. Shiva Kumar
2	107015445502	D. Beerappa
3	107015445505	A. Sukanya
4	107015445506	K. Mamatha
5	107015445507	N. mamatha
6	107015445003	D. Swaroopa Rami
7	107015445008	P. Indiraja
8	107015445009	V. Bala Krishna
9	107015445010	M. Ashok
10	107015445012	Varthy Mahesh
11	107015445018	A. Shiva Kumar
12	107015445019	A. Serini
13	107015445020	Ayesha Amreen
14	107015445021	Mandela Mounika
15	107015445023	Aravija Reemya
16	107015445024	Syeda Samreen
17	107015445026	A. Yungandas
18	107015445027	Kala Sujatha
19	107015441003	Shabana Begum
20	107015441004	Syed Tabrez

~~24~~

~~Vijay~~

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"

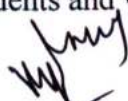
The department of chemistry has conducted a 10-days certificate course on "water analysis and preventive measures for water borne diseases in the urban areas". The period of course was from 17-01-2018 to 29-01-2018.

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 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, Dr Padmavathi as chair person, Dr.Ghanshyam Viceprincipal, 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. 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. A feedback of the programme was also collected from the participants. Most of the students appreciated the programme. The suggestions given by the students were recorded and decided to incorporate in the future course.

In the valedictory function certificates are distributed to the 20 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.


coordinator


Principal

Feed back .

From the course we could learn prevent
measures from water borne diseases
Suj

The course was informative and learned about
water borne diseases

Samreen

The course useful in understanding water borne
diseases in urban areas

Shiva

The course was useful in my practical analytical
skills.

v. marheh.

~~im~~

~~at~~

BJR GOVERNMENT DEGREE COLLEGE, NARAYANAGUDA, HYDERABAD.

DEPARTMENT OF CHEMISTRY-Attendance of Participants For The Certificate Course

S.N	NAME OF STUDENT	GROUP	Roll No	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1	M. Shiva Kumari	BSC BZC 3	1070-15	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
2	D. Braesappa	BSC BZC 3	445-501	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
3	A. Sukanya	BSC BZC 3	445-505	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
4	K. mamatha	BSC BZC 3	445-508	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
5	D. Swaroopa Ram	BSC BZC 3	445-003	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
6	P. Pindi raja	BSC BZC 3	445-008	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
7	V. bala Krishna	BSC BZC 3	445-009	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
8	M. Ashok	BSC BZC 3	445-010	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
9	Vashty mahesh	BSC BZC 3	445-012	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
10	G. Shiva Kumar	BSC BZC 3	445-018	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
11	A. Srinu	BSC BZC 3	445-019	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
12	Age An Arzum	BSC BZC 3	445-020	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
13	manduh manitha	BSC BZC 3	445-021	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
14	Gunija Ramya	BSC BZC 3	445-023	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
15	Syeda samdean	BSC BZC 3	445-024	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
16	G. yungandas	BSC BZC 3	445-026	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
17	Koti Sujatha	BSC BZC 3	445-027	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
18	Shahina Begum	BSC BZC 3	444-03	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
19	Syed Tabir	BSC BZC 3	444-04	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	
20	N. mamatha	BSC BZC 3	444-05	17/1/18	18/1/18	19/1/18	20/1/18	22/1/18	23/1/18	24/1/18	25/1/18	27/1/18	29/1/18	

G.P