



ST. ANN'S COLLEGE FOR WOMEN

(A Catholic Christian Minority Institution Affiliated to Acharya Nagarjuna University)
(Recognized the College Under Section 2(f) of the UGC Act. 1956 - New Delhi)

AMARAVATHI ROAD, GORANTLA, GUNTUR - 522 034. A.P.

Admission Notice

Add on Certificate Course : 2021-22.

The department of Chemistry proposes to enroll new batch for add-on certificate course in "*Water resources treatment*".

This programme is for the students of II B.Sc (BBC & MBC) students of our college the course will commence from 04-04-2022 to 09-04-2022.

Details of the course are:

No. of seats available	:	30
Venue for Registration	:	Department of Chemistry
Period of Course	:	04-04-2022 to 09-04-2022.
Duration of the Course	:	30 Hrs.
Time	:	9:00 AM to 11:00 AM and 1:00 PM to 3:00 PM
Mode of teaching	:	offline
Course coordinators	:	Mrs. B. Joyce Mrs. G.Anitha Bhanu
Last date for registration	:	03.04.2022

- A minimum 80% attendance and 70% marks in Final assessment conducted by the department are mandatory requirements for obtaining the certificate.
- Submitting the feedback of attended add-on certificate course is one of the mandatory requirements to receive certificate.
- Admissions are done on the basis of first come and first serve and fee is not refundable.



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Dr. S. Felicitas
17/4/22
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GORANTLA, GUNTUR

ADD ON CERTIFICATE COURSE "WATER RESOURCES TREATMENT" 2021-2022

Add on course is organized by the Department of Chemistry for II-year
BSC- BBC &MBC students from 4th to 9th Aril 2022

Topic: WATER RESOURCES TREATMENT

Course Description:

Fresh clean water is one of the most vital natural resources. Since present water pollution is evident everywhere, the quality of water is susceptible to changes with many conditions and factors, so continuous monitoring of water is essential. Water quality treatment provides the baseline information on water safety. Qualitative and quantitative measurements are needed to find the purity of water from various sources of supply. This course on water quality treatment is an attempt to equip students with theoretical background and practical skills to participate in water quality ensuring practices.

Aim:

The course intends to prepare a student in getting knowledge about various Water resources and quantitative analysis of critical water quality parameters. It also brings in those aspects of chemistry which are important for water quality treatment and pollution control.


Learning Objectives:

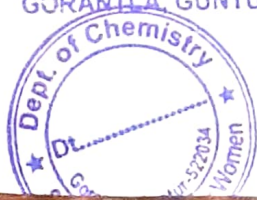
At the end of the course the student will be able to:

- Explain the general properties of water and understand water resources and water conservation.
- Create awareness about water quality criteria and standards, and their relation to public


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health and environment.

- Understand important parameters for measuring water quality.
- Experimental methods for the determination of water quality parameters.
- Learn how to run accurate water quality tests and to determine how the parameters relate to each other.

Course Content:

I. Water Quality Fundamentals (20hours)

Chemistry of water, Physical and chemical properties, Water resources, water pollution, Important water Quality parameters and methods for their determination -turbidity, color, taste, pH, acidity, alkalinity, chemical constituents, hardness, dissolved oxygen etc., water sampling, standard for drinking water as per BIS specifications, household water treatment and safe storage.

II. Practical-Laboratory tests for water quality monitoring (10hours)

Determination of pH and conductivity, Test for acidity and alkalinity, Test for total hardness, Test for chloride, calcium, iron etc., calculation of magnesium content and total solids.



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WATER RESOURCES TREATMENT

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