

EXPERT DETAILS

DR. ANINDITA SIKDAR (M.Sc., Ph.D.)

ASSISTANT PROFESSOR
APPLIED CHEMISTRY

MR. SATYAJIT KHAN (M.Sc.)

ASSISTANT PROFESSOR
APPLIED CHEMISTRY

COURSE IS FOR

B.TECH
B.Sc.
DIPLOMA
ITI
HIGHER SECONDARY (Class XI & XII)

REGISTRATION FEES

Rs. 200/-

COURSE OVERVIEW

This course is designed to provide hands-on experience in applying the principles and theories of chemistry to solve real-world problems. Students will engage in various laboratory experiments that demonstrate the practical applications of chemical concepts.

KEY LEARNING OUTCOMES:

- Develops analytical skill in water analysis, water distillation and interpretation of water quality
- Determine Dissolved oxygen in water
- Identify Hardness of Water
- Gaining practical experience in updated techniques and water quality measuring equipment for measurements
- Separation of Plant Extracts by Thin Layer Chromatography (TLC) plates
- Develop proficiency in using of laboratory equipment and conducting experiments safely and accurately
- Apply chemical knowledge to solve practical problems and improve processes

CONTACT DETAILS :

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REGISTRATION

Scan the QR Code for Registration



www.icampus.setgoi.ac.in

SHORT TERM CERTIFICATE COURSE

WATER ANALYSIS



**SANAKA EDUCATIONAL
TRUST'S GROUP
OF INSTITUTIONS**

DURGAPUR

A UNIT OF SANAKA EDUCATIONAL TRUST

MALANDIGHI, DURGAPUR - 713212

DEPARTMENT OF
BASIC SCIENCE AND HUMANITIES

Day 1

Inaugural Session

- ***Water Chemistry :***

This course introduces the study of water chemistry. The focus is on chemistry fundamentals water operators for problem analysis related to water treatments. Areas of study include: PH, alkalinity and inorganic (metals and non-metals, anions/cations)

Day 2

- **Quantitative Analysis of hardness is the amounts of dissolved calcium and magnesium in the water.**
- **Measure of how much oxygen is dissolved in the water.**
- **Common method for measuring anion drinking water.**

Day 3

- **Titration Techniques: Conduct acid - base, redox and complex metric titrations to determine the concentration of solutions via volumetric methods. An end point of a titration signifies the completion of the titration by change in the colour or intensity of the solution by adding indicators.**

Day 4

- **Perform Thin Layer Chromatography (TLC) to separate plant extracts and TLC can be used to determine the number of components in a mixture, identify of compounds and the purify of a compound.**

Day 5

- **Quiz/ Assessment Test based on this course.**
- **Valedictory session**