

## Add on Course

**Course Title:** Basic Analytical Chemistry: A hand on experience

**Objective of the course:** The Objective of the course is to train the participants about the common techniques used in chemical laboratories. These techniques are also very much useful in industries as well. The learners will get acquainted with the basics of laboratory techniques which are used in advanced research labs and industries.

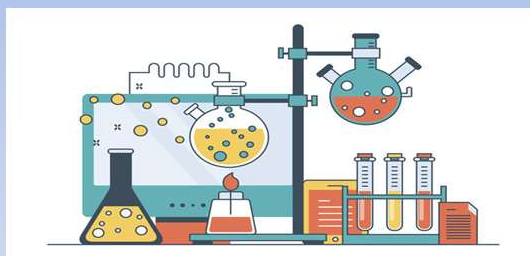
**Duration:** 30 Hours

**Course Fee:** Free

**Course Coordinator:** Dr. Sadhan Pramanik, Contact No. 8240802958



**ADD-ON COURSE  
ON  
BASIC ANALYTICAL CHEMISTRY: A HAND ON EXPERIENCE**



**Organized by The Department of Chemistry; Hooghly Women's College**

**Eligibility: 10+2 pass with Chemistry as one subject**

**Course Duration: 30 Hours (Tentative Commencement from August, 2022)**

**Course Coordinator: Dr. Sadhan Pramanik (8240802958)**

**Course Fee: Free**

Date: 20.07.2022

**NOTICE**

It is hereby notified that the Department of Chemistry is going to organize an add-on course entitled as "Basic analytical chemistry: A hand on experience". The course will commence from August, 2022 (Tentative) and there is no course-fee. Anyone who passed 10+2 with Chemistry as one of the subjects is eligible for the course. Interested candidates are requested to contact Dr. Sadhan Pramanik (Contact No. 8240802958), Head of Department of Chemistry on or before 07<sup>th</sup> August, 2022 for enrollment and details.

*Sima Banerjee*  
20/07/22  
Dr. Sima Banerjee

Principal

Hooghly Women's College

*Principal*  
Hooghly Women's College

**Course structure with schedule:**

Sl No	Topic	Date	Time and duration
1	Introduction to analytical chemistry and data handling	16.08.2022	4.30 pm to 6.30 pm 2 hours
2	Introduction on titration and estimation of strengths of acids and bases by titrimetric method	23.08.2022	4.30 pm to 6.30 pm 2 hours
3	Estimation of acetic acid in commercial vinegar by simple acid-base titration	27.08.2022	4.30 pm to 6.30 pm 2 hours
4	Determination of hardness of water samples	06.09.2022	4.30 pm to 6.30 pm 2 hours
5	Determination of pH of water samples	13.09.2022	4.30 pm to 6.30 pm

			2 hours
6	Introductory lecture on separation techniques	20.09.2022	4.30 pm to 6.30 pm 2 hours
7	Separation of mixture of food dyes by thin layer chromatography and calculation of $R_f$	24.09.2022	4.30 pm to 6.30 pm 2 hours
8	Separation of components from mixture by column chromatography	25.10.2022	4.30 pm to 6.30 pm 2 hours
9	Making buffer of particular pH	05.11.2022	4.30 pm to 6.30 pm 2 hours
10	Quantitative estimation of iron in ore	12.11.2022	4.30 pm to 6.30 pm 2 hours
11	Quantitative estimation of glucose	19.11.2022	4.30 pm to 6.30 pm 2 hours
12	Potentiometric titration	27.11.2022	4.30 pm to 6.30 pm 2 hours
13	Lecture on ion exchange separations	03.12.2022	4.30 pm to 6.30 pm 2 hours
14	Separation of zinc and Mg ions by ion exchange resins	10.12.2022	4.30 pm to 6.30 pm 2 hours
15	Valedictory Sessions	17.12.2022	4.30 pm to 6.30 pm 2 hours

**Resource Persons:**

SI No.	Topics	Resource Persons
1	1-3	Dr. Sadhan Pramanik Associate Professor Hooghly Women's College
2	4-5	Dr. Anup Biswas Assistant Professor Hooghly Women's College
3	6-8	Prof. Satyajit Biswas Associate Professor Hooghly Women's College
4	9-12	Dr. Biplab Mondal Associate Professor Hooghly Women's College
5	13-14	Adwitiya Chakraborty Senior Research Fellow CGCRI, Kolkata

**Participants' List**

Sl No.	Name	Contact No
1	Poulami Bhattacharjya	6290 981 613
2	Sahelee Paul	97481 74751
3	Arpita Ghosh	95937 19599
4	Adrija Paul	96747 92219
5	Rampita Sarkar	81000 73392
6	Lisa Samanta	9883380103
7	Najma Mallik	8697115300
8	Shilpi Sarkar	8514978480
9	Kabita Chowdhury	9433784173





**Course Outcome:** 9 students from the Department of Chemistry, Hooghly Women's College participated in the course. All of them successfully completed the course. At the end, they received certificates.

**Sample attendance sheet:**

Attendance Sheet  
Course Title: Basic Analytical Chemistry: A hand on experience  
Date: 24.09.2022

Sl No.	Name	Institution	Signature
1	Poulami Bhattacharjya	Hooghly Women's College	Poulami Bhattacharjee
2	Sabelee Paul	Hooghly Women's College	Sabelee Paul
3	Arpita Ghosh	Hooghly Women's College	Arpita Ghosh
4	Adrija Paul	Hooghly Women's College	Adrija Paul
5	Rampita Sarkar	Hooghly Women's College	Rampita Sarkar
6	Lisa Samanta	Hooghly Women's College	Lisa Samanta
7	Najma Mallik	Hooghly Women's College	Najma Mallik
8	Shilpi Sarkar	Hooghly Women's College	Shilpi Sarkar
9	Kabita Chowdhury	Hooghly Women's College	Kabita Chowdhury

Sadhon Pramanik  
Course coordinator

Attendance Sheet  
Course Title: Basic Analytical Chemistry: A hand on experience  
Date: 26.11.2022

Sl No.	Name	Institution	Signature
1	Poulami Bhattacharjya	Hooghly Women's College	Poulami Bhattacharjee
2	Sabelee Paul	Hooghly Women's College	Sabelee Paul
3	Arpita Ghosh	Hooghly Women's College	Arpita Ghosh
4	Adrija Paul	Hooghly Women's College	Adrija Paul
5	Rampita Sarkar	Hooghly Women's College	Rampita Sarkar
6	Lisa Samanta	Hooghly Women's College	Lisa Samanta
7	Najma Mallik	Hooghly Women's College	Najma Mallik
8	Shilpi Sarkar	Hooghly Women's College	Shilpi Sarkar
9	Kabita Chowdhury	Hooghly Women's College	Kabita Chowdhury

Sadhon Pramanik  
Course coordinator

Attendance Sheet

Course Title: Basic Analytical Chemistry: A hand on experience

Date: 16/08/2022

Sl No.	Name	Institution	Signature
1	Poulami Bhattacharjya	Hooghly Women's College	Poulami Bhattacharjee
2	Sabelee Paul	Hooghly Women's College	Sabelee Paul
3	Arpita Ghosh	Hooghly Women's College	Arpita Ghosh
4	Adrija Paul	Hooghly Women's College	Adrija Paul
5	Rampita Sarkar	Hooghly Women's College	Rampita Sarkar
6	Lisa Samanta	Hooghly Women's College	Lisa Samanta
7	Najma Mallik	Hooghly Women's College	Najma Mallik
8	Shilpi Sarkar	Hooghly Women's College	Shilpi Sarkar
9	Kabita Chowdhury	Hooghly Women's College	Kabita Chowdhury

Sadhana Pramanik  
Course coordinator

Attendance Sheet

Course Title: Basic Analytical Chemistry: A hand on experience

Date: 27.08.2022

Sl No.	Name	Institution	Signature
1	Poulami Bhattacharjya	Hooghly Women's College	Poulami Bhattacharjee
2	Sabelee Paul	Hooghly Women's College	Sabelee Paul
3	Arpita Ghosh	Hooghly Women's College	Arpita Ghosh
4	Adrija Paul	Hooghly Women's College	Adrija Paul
5	Rampita Sarkar	Hooghly Women's College	Rampita Sarkar
6	Lisa Samanta	Hooghly Women's College	Lisa Samanta
7	Najma Mallik	Hooghly Women's College	Najma Mallik
8	Shilpi Sarkar	Hooghly Women's College	Shilpi Sarkar
9	Kabita Chowdhury	Hooghly Women's College	Kabita Chowdhury

Sadhana Pramanik  
Course coordinator

**Sample certificate:**

