## Add on Course

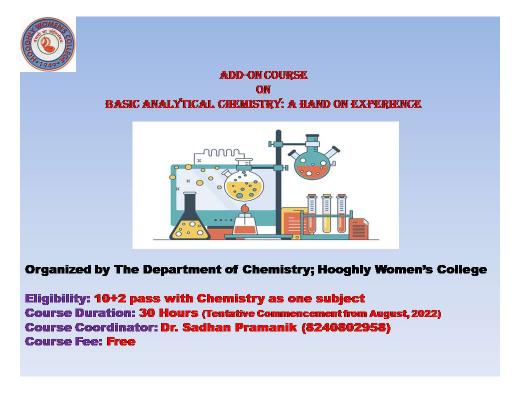
Course Title: Basic Analytical Chemistry: A hand on experience

**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



Date: 20.07.2022

#### NOTICE

It is hereby notified that the Department of Chemistry is going to organize an addon 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 07th August, 2022 for enrollment and details.

Seina Banerjee 20 /07 (22 Dr. Sima Banerjee

Principal

Hooghly Women's College

Principal Hooghly Women's College

#### **Course structure with schedule:**

Sl	Торіс	Date	Time and duration
No			
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	20.09.2022	4.30 pm to 6.30 pm
	techniques		2 hours
7	Separation of mixture of food dyes by thin	24.09.2022	4.30 pm to 6.30 pm
	layer chromatography and calculation of $R_{\rm f}$		2 hours
8	Separation of components from mixture by	25.10.2022	4.30 pm to 6.30 pm
	column chromatography		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	10.12.2022	4.30 pm to 6.30 pm
	exchange resins		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	Name	Contact No	
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	





<u>Course Outcome</u>: 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:

No.       St.       Value       Internation         2       Sahelee Paul       Hooghly Women's College       Sahelee Truit         3       Arpita Ghosh       Hooghly Women's College       Anplita Chosh       Hooghly Women's College       Poulami Bhattachariya       Hooghly Women's College       Poulami Bhattachariya         4       Adrija Paul       Hooghly Women's College       Sahelee Paul       Hooghly Women's College       Poulami Bhattachariya         5       Rampita Sarkar       Hooghly Women's College       Sahelee Paul       Hooghly Women's College       Provide Sahelee Paul         6       Lisa Samanta       Hooghly Women's College       Adrija Paul       Hooghly Women's College       Adrija Paul         7       Najma Mallik       Hooghly Women's College       Najma Atallikk       Sahelee Paul       Hooghly Women's College       Sahelee Paul         7       Najma Mallik       Hooghly Women's College       Arguita Sarkar       Hooghly Women's College       Sahelee Paul         8       Shilipi Sarkar       Hooghly Women's College       Kalster, Chrwedhury       Sahelee Paul       Hooghly Women's College       Majma Atallik         9       Kabina Chowdhury       Hooghly Women's College       Kalster, Chrwedhury       Najma Mallik       Hooghly Women's College       Majma Atallik	SI	Name	Institution	Signature		1.	Date: 26.11.2022	Signature
No.       No.         2       Sahelee Paul       Hooghly Women's College       Schelee Paul         3       Aprita Ghosh       Hooghly Women's College       Appita Ghosh         4       Adrija Paul       Hooghly Women's College       Schelee Paul         5       Rampita Sarkar       Hooghly Women's College       Appita Ghosh         6       Lisa Samanta       Hooghly Women's College       Klaight Astronometer         7       Najma Mallik       Hooghly Women's College       Klaight Astronometer         8       Shipi Sarkar       Hooghly Women's College       Schelee Paul         9       Kabita Chowdhury       Hooghly Women's College       Klaight Astronometer         9       Kabita Chowdhury       Hooghly Women's College       Klaight Astronometer         8       Shipi Sarkar       Hooghly Women's College       Klaight Astronometer         9       Kabita Chowdhury       Hooghly Women's College       Klaight Astronometer         9       Kabita Chowdhury       Hooghly Women's College       Klaight Sarkar         8       Shipi Sarkar       Hooghly Women's College       Lisa Samanta         9       Kabita Chowdhury       Hooghly Women's College       Klaight Sarkar         9       Kabita Chowdhury       Ho	No.	D. Jami Dhattachariya	Hooghly Women's College	Poulami Chattachangee	SI	Name	Institution	
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Sampita Sarkar     Mooghly Women's College     Rampile Sarkar       Lisa Samanta     Hooghly Women's College     Rampile Sarkar       Joseph Women's College     Rampile Sarkar       Aprita Ghosh     Hooghly Women's College       Ampile Ghosh     Hooghly Women's College       Aprita Ghosh     Hooghly Women's College       Shipis Sarkar     Hooghly Women's College	Sampila Sarkar         Hooghly Women's College         Rampila Sarkar         - Sailere raii         Hooghly Women's College         Sailere raii           Lisa Samanta         Hooghly Women's College         Rampila Sarkar         3         Arpita Ghosh         Hooghly Women's College         Rampila Sarkar           Nama Malink         Hooghly Women's College         Nama Malink         Hooghly Women's College         Ampila Sarkar           Shilpi Sarkar         Hooghly Women's College         Mama Malink         Sailar Sarkar         Hooghly Women's College         Ampila Sarkar           Shilpi Sarkar         Hooghly Women's College         Mama Malink         Sailar Sarkar         Sailar Sarkar         Hooghly Women's College         Markar Hooghly Women's College         Sailar Sarkar	Rampha Sarkar     Hooghly Women's College     Rampha Sarkar     - Santee Pail     Hooghly Women's College     Santee Pail       Liss Samanta     Hooghly Women's College     Rampha Sarkar     3     Arpita Ghosh     Hooghly Women's College     Phylia. By Sarkar       Nama Malik     Hooghly Women's College     Manuar Hallick     5     Rampita Sarkar     Hooghly Women's College     Phylia. By Sarkar       Shilpi Sarkar     Hooghly Women's College     Manuar Hallick     5     Rampita Sarkar     Hooghly Women's College     Rampita Sarkar	S         Rample Sarkar         Hooghly Women's College         Chample Sarkar           6         Liss Samaria         Hooghly Women's College         Ampla Chosh         Hooghly Women's College         Ampla Chosh           6         Liss Samaria         Hooghly Women's College         Ampla Chosh         Hooghly Women's College         Ampla Chosh	Mamu phattachangee
Lisa Samanta         Moghly Women's College         Amplie Samanta           Neima Mallik         Hoghly Women's College         Manual Allick           Skipi Sarkar         Hoghly Women's College         Manual Allick           Skipi Sarkar         Hoghly Women's College         Manual Allick           Skipi Sarkar         Hoghly Women's College         Sarkar	Lisa Samanta         Hooghly Women's College         Ample San Print         Apple San Print           Nama Mallik         Hooghly Women's College         Apple San Print         4         Adrija Paul         Hooghly Women's College         Apple Paul           Nama Mallik         Hooghly Women's College         Mana Mallik         5         Rampits Sankar         Hooghly Women's College         Apple Paul           Skipi Sarkar         Hooghly Women's College         Skipi Sarkar         6         Lisa Samanta         Hooghly Women's College         Family Sankar	Lise Samanta         Hooghy Women's College         Ampira         Samanta         Hooghy Women's College         Marina         And Angina         Angina         Marina         Marina         Monosin         Hooghy Women's College         Marina         Marina         Marina         Marina         Monosin         Hooghy Women's College         Marina         Ma	A Adria Semanta Moghly Women's College Alon Santanta     Advis Semanta Adria Paul Hooghly Women's College Alon Santanta	Sahelee Paul
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### Sample certificate:

