



A Report on One-Day Seminar on NMR Spectroscopy

Poster of the programme



A seminar was organized jointly by the IQAC, Department of Chemistry, Ananda Mohan College along with IQAC, Department of Chemistry, New Alipore College on 19th January, 2024 at Ananda Mohan College. The seminar was based on Nuclear Magnetic Resonance Spectroscopy (NMR) and its applications which is a part of the UG curriculum in the University of Calcutta.

The programme was a part of a joint MOU between the two colleges. Dr. Sounak Dutta, Faculty of Department of Chemistry, Ananda Mohan College and Dr. Amit Saha Roy, Faculty of Department of Chemistry, New Alipore College were joint conveners of the programme. Teachers, students from both the colleges along with teachers from other colleges joined the programme. Teachers from other nearby colleges like City College, Vidyasagar College and Bethune College were also present.



Dr. Pradip Kumar Maiti, Principal of Ananda Mohan College chaired the seminar. There were two eminent speakers in the seminar:

- (a) Dr. Priyotosh Dutta, Faculty, Ananda Mohan College
- (b) Dr. Saswati Chatterjee, Faculty, New Alipore College

Dr. Priyatosh Dutta spoke on the theoretical aspect of NMR Spectroscopy. He discussed the pattern of the splitting in ^1H NMR Spectroscopy and its connection with Pascal's Triangle. It was a learning session and raised lots of curiosity. Students and teachers interacted with the speaker after the lecture.



Dr. Saswati Chatterjee spoke on the practical applications of NMR Spectroscopy and how to identify specific molecules in the light of NMR. Her talk included spectra of specific examples from organic chemistry which were extremely helpful for students.



Spectroscopy is one of the most fundamental topics studied in Chemistry and has a huge application in identifying unknown molecules. The subject also has long-term impact since it helps students even to go ahead in research career. Overall, the seminar helped students and teachers clarify their doubts in the subject. Interactive sessions helped them learn about intricate details beyond the text book.

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