

To
The Principal
Acharya Narendra Dev College
Delhi University
Kalkaji, New Delhi

Subject: Report on the course 'Tools and Techniques in Biological Sciences'

Dear Sir

The course was formulated to introduce undergraduate students to concepts and approaches used in research in biological sciences. It was taught by six research scholars from the Department of Biochemical Engineering and Biotechnology (DBEB), IIT Delhi, as a part of their Teaching Assistantship requirement for the Prime Minister Research Fellowship (PMRF).

The classes were conducted on Mondays, Wednesdays, and Fridays 4:00 – 6:00 PM in the Seminar Hall. The course began on 29 August 2022 (Monday) and ended on 11 November 2022 (Friday). Second- and third-year undergraduates from Life Sciences, Zoology, and Biomedical Sciences attended the course. Ten units were taught, including the basics, such as laboratory practices, analytical techniques, reading/ writing research papers, and advanced topics, including genetic engineering, nanobiotechnology, waste treatment, cancer biology, and bioinformatics. A total of 40 hours of theory sessions, primarily using PowerPoint presentations with multiple in-class demos, 6 hours of hands-on lab work, and 6 hours of student presentations were organized. The material taught and/or discussed was shared as a google drive folder. Two planned lab sessions could not be arranged due to a lack of time in the students' timetable. Two assignments, one paper presentation, and one quiz were conducted to evaluate their progress.

We hope our attempt would have provided students with a flavor of the diverse field of research in life sciences. This also served as a learning experience for us that would surely benefit us in our journey as academicians. We thank ANDC and all the faculty members for the opportunity and for guiding us throughout.

Regards,

Aastha Singh
Kolli Venkata Supraja
Pallavi Gupta
Prakrithi P
Preetha Ganguly
Rewati Dixit