

VPM'S B.N.BANDODKAR COLLEGE OF SCIENCE, THANE (AUTONOMOUS)

DEPARTMENT OF CHEMISTRY

Report Of Virtual Training Program

Department: - Chemistry **Day :** Thursday ,Friday Tuesday **Date:-** February 10,11 and 15, 2022

Time:- 2:00pm-3:00pm **Mode of activity:** Online

Name of activity: Virtual training program on FTIR, UV and centrifuge for T.Y.B.SC and M.Sc Chemistry students

Resource Persons: Ms. Nashra Khan, Ms. Siddhi Shingre , Ms. Manali Sondhar Ms. Shumeela Kupe , M.Sc II Chemistry students

The Department of Chemistry organized a Virtual Training program on instruments for PG and UG chemistry students. This year chemistry department initiated peer learning process. Chemistry PG students initiated training lectures to the M.Sc. and B.Sc Chemistry students. Virtual training was arranged on - FTIR, UV and Centrifuge. The program aimed to train students about the instruments and there application practically on field for further industrial as well as research work virtually.

The first training session was held on **10/02/2022** that covered the topic on UV spectrophotometer by Ms. Nashra Khan (MSC-II). She explained the beers Lamberts Law, relations between Absorption, incident and transmitted light, principle, instrumentation and various application of UV spectrophotometer, structural evaluation of compounds. Various factor affecting the results. She has explained different compounds also exhibited video sampling and working. **Total 42 students 2 teachers were benefited from the virtual training.**

The second session was led by **Ms. Siddhi Shingre (MSc Part II)** and **Ms. Manali Sondhar (MSc Part II)** on "*Fourier transform infrared spectroscopy (FTIR)*". The session was held on **11/02/2022** .They explained the principle of instrument working processes, application, and instruments of FTIR. The technique is depend on absorption and emission. The reproducible results, data base, noise reduction preparation of solid and liquid pallets, spectral analysis etc. explained by the students. Total 45 students and 2 teachers benefited from the session.

The third and final virtual training was about "*Centrifuge*" by **Ms. Shumeela Kupe (MSc II)** on **15/02/2022**.

She explained the importance of sedimentation, centrifugal force, density moisture contents in the separation of molecules. Mainly focused on the various techniques used in chemical analysis. Types of various centrifuge and their applications. Ms Shumeela also explained the various filtration media, various phase separation and pelleting in chemical process and synthesis.

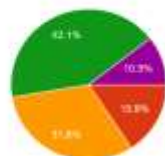
The training was excellent benefitted to the UG and PG chemistry students since it's a part of chemical process and required in all chemical and its allied industrial processes.

Outcome: Students experienced an innovative way to learn and understand chemistry digitally. It was and exciting as well as educational experience for all the students.



FEEDBACK ANALYSIS:

How was the session?
33 responses



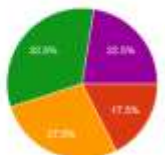
OK
GOOD
VERY GOOD
EXCELLENT
OUTSTANDING
OTHER

Is the session fulfilled desire task?
33 responses



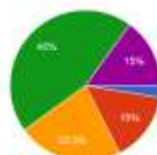
OK
GOOD
VERY GOOD
EXCELLENT
OUTSTANDING
OTHER

How was the session?
40 responses



OK
GOOD
VERY GOOD
EXCELLENT
OUTSTANDING
OTHER

Is the session fulfilled desire task?
40 responses



OK
GOOD
VERY GOOD
EXCELLENT
OUTSTANDING
OTHER