



Dempo Charities Trust's  
DHEMPE COLLEGE OF ARTS & SCIENCE  
Miramar, Panaji-Goa

Summer Course in Analytical Tools

**CourseObjective:**

To have detailed knowledge about principles and working of instruments used in various chemical analysis. This helps the students during the project work of T.Y.BSc

**CourseContents:**

XRD, XRFS, SEM, Magnetic Susceptibility, AAS, Coulometer, HPLC, LCMS, FTIR and GC. Theory of instruments and demonstrate the working of instruments.

**Course outcome:**

students after completing this course gain adequate knowledge to operate instruments like XRD,XRFS,SEM, Magnetic studies.

Academic Year 2018-19

Attendance of students for Summer Course in Analytical Tools for Chemical Analysis  
in May 2019

Serial No	Name	6/05	7/05	8/05	9/05	10/05
1	Melisa Dias	P	P	P	P	P
2	Austin Almeida	P	P	P	P	P
3	Mahima Priolkar	P	P	P	P	P
4	Mahima Dabholkar	P	P	P	P	P
5	Mahesh Lamani	P	P	P	P	P
6	Beena chauhan	P	P	P	P	P
7	Tanisha Mahale	P	P	P	P	P
8	Vaibhavi kalmekar	P	P	P	P	P
9	Anitadevi Bind	P	P	P	P	P
10	Bindiya Talkar	P	P	P	P	P
11	Anju Suthar	P	P	P	P	P
12	Sanjana pednekar	P	P	P	P	P
13	Ashwini Vernekar	P	P	P	P	P
14	Shilpa Prasad	P	P	P	P	P
15	Sanjana arobekar	P	P	P	P	P
16	Narayan Baith	P	P	P	P	P
17	Kirti Gawas	P	P	P	P	P
18	Simran Mulla	P	P	P	P	P
19	Faiza Anjum Doddamani	P	P	P	P	P
20	Vrushabh Naik	P	P	P	P	P
21	Samantha Patil	P	P	P	P	P
22	Akshata Naik	P	P	P	P	P
23	Trusha Kouthanker	P	P	P	P	P
24	Yogita Junjawadkar	P	P	P	P	P
25	Shivani Chari	P	P	P	P	P
26	Bhushana Naik	P	P	P	P	P
27	Vineeta Furtado	P	P	P	P	P

*V. Borkar*

28	Reis Estrocio	P	P	P	P	P
29	Vailanka Mendes	P	P	P	P	P
30	Kritika Shirodkar	P	P	P	P	P
31	Pooja karmalkar	P	P	P	P	P
32	Tabitha Utkari	P	P	P	P	P
33	Pearl Sequeira	P	P	P	P	P

V. S. D. S.



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## **Department Of Chemistry**

Report of the long term non-conventional course entitled “Analytical Tools for Chemical Analysis”.

The department of chemistry organised a long term integrated (faculty of NIO) value added non-conventional course entitled “Analytical Tools for Chemical Analysis ” for SY BSC students in the month of May.

The course was conducted at National Institute of Oceanography, Donapaula Goa. There it was co-ordinated by Dr Brenda Mascarenhas Principal Scientist Geological Oceanography Department.

In the Introductory session the students were briefed about the various CSIR Institutes in different parts of the country. They were also briefed about the functioning at the various departments of NIO.

The students were given hands on training on the Instrumentation techniques like XRD, SEM, AAS, ICP- MS. They were briefed regarding the working of Instruments and also their applications in the scientific field.

During this one week tenure guest lectures were organized by expertise from the field of life sciences, Chemical, Physical and Geological and Environmental Sciences. The students were given exposure of the research carried out in different departments of NIO.

The student intake capacity was 25. The SYBSc students got registered for the course in the month of March , later they were divided into groups and the list was sent to National Institute of Oceanography.

Course Outcomes:

The students are well trained to operate the different Instruments like AAS, XRD, ICP, SEM . They also acquire the knowledge to carry out antimicrobial studies .This helps them to carry out Characterization studies for the TYBSc projects in the subjects of Chemistry, Physics, Geology, Zoology and Botany.The Course helps to increase the Research insight and analytical reasoning of the young and aspiring minds of the students.