

**“Hands on training  
on Analytical  
instrument”**

AY  
**2024-2025**

COURSE DURATION  
**30 HRS**

SEMESTER  
**V**

## Modules:

| Sr.No. | Particulars  | Session highlights   |
|--------|--|--|
| 1      | <b>Analytical Instrumentation</b>                                      | Colorimetry and spectrometry   |
| 2      | qualitative and quantitative analysis of a given sample.               | measurement in many chemical processes and laboratories handling liquids or solutions.   |
| 3      | analytical instrumentation used in chemical/biochemical research labs. | working principle, types, and applications of NMR and Mass spectroscopy.   |
| 4      | analytical method for a specific application.                          | undamental knowledge of gas chromatography and liquid chromatography. design, construction, and working of various analytical instrumentation. |

## Course objective

- With Analytical Instrumentation certification you can work in manufacturing and chemical processes industry as an analytical instrumentation technician performing batch processing on samples, testing product with various analytical methods or performing calibration procedures on equipment and instruments.

## Course outcome

- Students will able to work with a variety of analytical instruments, including spectrophotometers, chemical analyzers, and chromatographs.

COURSE COORDINATOR

**DR. RAHUL HAZARE**

NAME OF DEAN

**DR. MAKARAND GAMBHIRE**

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