

ENGINEERING CHEMISTRY LAB (BAS152/ BAS252)

List of Experiments (As per AKTU Syllabus)

1. To understand the Standard laboratory devices for weight and volume measurement and Calibration of Analytical Equipment.
2. Determination of Hardness of water sample by EDTA method.
3. Determination of Alkalinity of water sample.
4. Determination of surface tension of given liquid.
5. Determination of Viscosity of a given liquid by viscometer.
6. Determination of the strength of Ferrous ammonium sulfate using external indicator.
7. Determination of available chlorine in bleaching powder.
8. Determination of chloride content in water sample.
9. To verify Beer's law using colorimetric method with KCNS as color developing agent.
10. Determination of pH by titrimetric method.



Equipments of Engg Chemistry lab

| S. No. | Name of Instrument/Equipment | Specification | Model/Make |
|--------|------------------------------------|--------------------------|---------------|
| 1 | Digital Balance | 0.1g-600g | Denwar |
| 2 | Analytical Balance | .001g-100g | Sunshine |
| 3 | Colorimeter Digital | 400-700nm | Elico/LabMED |
| 4 | Conductivity metre | 0-1000ms | Decibel |
| 5 | pH meter Digital | pH 0-14 | Decibel/Bench |
| 6 | Heating Mantle | 0-500 Degree Centigrade | Paras |
| 7 | Fridge | 175 Litre | LG |
| 8 | Muffle Furnace | 0-1200 Degree Centigrade | Jindal |
| 9 | Oven | 0-300 Degree Centigrade | Jindal |
| 10 | Double Distillation Water Assembly | 0-5litre | Borosil |
| 11 | Stopwatch | milliseconds to minutes | Racer |

Chemistry Lab

Corridor First Floor

D Block 103

Main Door

Green Board

Autoclave

Oven

Rack

First Aid Box

Fire Exting.

Student

Weighing Room

Door

Fridge

Weighing Balance

Faculty Table

Computer

Faculty Table

Student Table with sink

Stock Room

Door

Table

Almirah

Almirah

Faculty Table

Student Table with sink

Distil Water Assembly

Distil Water Assembly

Table with Sink

Sand Bucket

Student Table with sink