

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA IN TEXTILE PROCESSING TECHNOLOGY

SEMESTER: V

Subject Name: **Practices in Analytical Textile Chemistry**

Sr. No.	List of Practical
1.	Estimation of : (i) Hydrochloric acid, (ii) Sulphuric acid, (iii) Nitric acid, (iv) Acetic acid, (v) Formic acid and (vi) Oxalic acid
2.	Estimation of : (i) Caustic soda, (ii) Potassium carbonate, (iii) Sodium carbonate and (iv) Sodium bicarbonate
3.	Estimation of : (i) Calcium hypochlorite, (ii) Sodium hypochlorite, (iii) Hydrogen peroxide, (iv) Sodium peroxide, (v) Sodium chlorite, (vi) Sodium nitrite and (vi) Resist salt
4.	Estimation of : (i) Sodium hydrosulphite, (ii) Sodium sulphide and (iii) Stannous chloride
5.	Identification of all the types of unknown textile dyes given in powder form.
6.	Identification of all the types of unknown textile dyes present on the dyed fibre.
7.	Qualitative separation of mixed or blended textile fibres.
8.	Quantitative separation of mixed or blended textile fibres.
9.	Experiment of Paper Chromatography.
10.	Experiment of Thin Layer Chromatography.
11.	To understand the meaning and importance of Calibration by carrying out the actual calibration of a given model of Spectrophotometer of Computer colour matching system (CCM) using White and Black tiles.
12.	To measure the pH of given unknown solutions using pH meter.
13.	To measure the viscosity of given solutions / pastes using viscometer.
14.	Prepare at least 4-5 Power point slides using computer system indicating the Latest Practical Aspects in Analytical Textile Chemistry. (in a group of 5 students)
15.	Prepare a printed hand out (3-4 pages) using computer system about Latest Practical Aspects in Analytical Textile Chemistry by searching suitable websites using Internet Technology. (in a group of 5 students)