

Dr. LANKAPALLI BULLAYYA JUNIOR COLLEGE

VISAKHAPATNAM-13

Chemistry Practical Syllabus

Junior Intermediate

Exp. No.	Name of the Experiment
1	Introduction 1.1 Do's in a Chemistry laboratory 1.2 Some don'ts in a Chemistry laboratory 1.3 Basic laboratory Equipment 1.4 Safety measures in Chemistry laboratory 1.5 Emergency First Aid in Chemistry laboratory
2	Basic Laboratory Techniques 2.1 Bunsen Burner 2.2 Heating solution in a test tube 2.3 Heating solution in a Beaker 2.4 Filtration 2.5 Measuring volume of liquids 2.6 Wash bottle
3	Quantitative Estimation (Titrimetric Analysis) 3.1 Chemical (Analytical) Balance 3.2 Preparation of standard solution of Oxalic acid 3.3 Indicators in Acid-Base titrations and Redox titrations 3.4 Estimation of NaOH present in the given solution titrimetrically with standard oxalic acid solution 3.5 Preparation of standard solution of Sodium carbonate 3.6 Determination of the strength of the given Hydrochloric acid 3.7 Precautions during Titrimetric analysis
4	Qualitative Analysis 4.1 Introduction 4.2 Reactions of Anions 4.3 Tests for confirmation of Anions 4.4 Reactions of Cations Projects

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Chemistry Practical Syllabus

Senior Intermediate

Exp. No.	Name of the Experiment
1	Preparation of Inorganic Compounds 1.1 Preparation of Ferrous Ammonium Sulphate (Mohr's salt) - 71
2	Tests for Functional Groups in Organic Compounds Systematic analysis for identification and confirmation of: (a) Carboxylic group (-COOH) (b) Aldehydic group (-CHO) & Ketonic group (>C = O) (c) Alcoholic group (-OH) (d) Phenolic group (Ar - OH) (e) Amino group (-NH ₂)
3	Characteristic Tests for Carbohydrates and Proteins 3.1 Carbohydrates 3.2 Qualitative tests for Carbohydrates 3.3 Proteins 3.4 Qualitative tests for Proteins
4	Quantitative Estimation (Redox Reactions) 4.1 Determination of the Strength of Potassium Permanganate 4.2 Estimation of Potassium Permanganate 4.3 Precautions during Titrimetric analysis
5	Qualitative Inorganic Analysis 5.1 Introduction 5.2 Preliminary tests 5.3 Analysis of Anion 5.4 Analysis of Cation 5.5 Model Analysis of Simple Salts Projects