

**UNIVERSITY OF MADRAS**  
**B.Sc. DEGREE COURSE IN CHEMISTRY**  
**SYLLABUS WITH EFFECT FROM 2020-2021**

**BCY-DSC06**

**CORE-VI: MAJOR PRACTICAL - II**

<b>Semester</b>	<b>Subject Title</b>	<b>Total Hours</b>	<b>Credit</b>
<b>III &amp; IV</b>	<b>Semimicroinorganic Qualitative Analysis</b>	90	3

**Semi-Micro Qualitative Analysis**

1. Analysis of simple acid radicals: carbonate, sulphate, chloride, bromide, iodide, nitrate
2. Analysis of interfering acid radicals: Fluoride, oxalate, borate, phosphate
3. Elimination of interfering acid radicals and Identifying the groups of basic radicals
4. Analysis of basic radicals (group-wise): Lead, copper, bismuth, cadmium, iron, aluminium, zinc, manganese, nickel, cobalt, calcium, strontium, barium, magnesium, ammonium
5. Analysis of a mixture containing two cations and two anions (of which one is interfering type)

Each student is expected to do the analysis of at least 10 mixtures.

**Book for Reference**

1. Venkateswaran V, Veeraswamy R., Kulandivelu A.R., Basic Principles of Practical Chemistry, 2<sup>nd</sup> edition, New Delhi, Sultan Chand & Sons (1997)