

SEMIMICRO QUALITATIVE ANALYSIS

Semester	Subject Code	Category	Lecture Hours		Theory hours		Practical hours		Credits
			Per week	Per sem.	Per week	Per sem.	Per week	Per sem.	
IV	21CCH41	Practical-II	-	-	-	-	3	45	3

I. QUALITATIVE ANALYSIS

Analysis of a mixture containing two cations and two anions (one interfering and one non- interfering anion) will be given. Semimicro methods using the conventional scheme are to be adopted.

Cations to be studied

Lead, Copper, Bismuth, Cadmium, Iron, Aluminium, Zinc, Manganese, Cobalt, Nickel, Barium, Calcium, Strontium, Magnesium and Ammonium.

Anions to be studied

Carbonate, Sulphide, Sulphate, Nitrate, Chloride, Bromide, Fluoride, Borate, Oxalate and Phosphate.

II. PREPARATION OF INORGANIC COMPOUNDS

1. Tetraamminecopper(II) sulphate
2. Tris(thiourea)copper(I) chloride
3. Potassiumtrioxalatoferrate(III)
4. Chloropentamminecobalt(III) chloride
5. Ferrous ammonium sulphate
6. Microcosmic salt

TEACHING METHODOLOGY

- Chalk and Board
- Demonstration
- Conducting Experiments
- Conducting Viva

SYLLABUS DESIGNER:

- Dr. N. Dhanam, Assistant Professor of Chemistry
- Dr. R. Arunadevi, Assistant Professor of Chemistry

SCHEME OF VALUATION FOR PRACTICAL EXAMINATIONS
PRACTICAL – II
SEMIMICRO QUALITATIVE ANALYSIS

Internal assessment: 40 Marks

External assessment: 60 marks

Total: 100 marks

Record: 10 Marks

Preparation: 13 (Quality - 7 marks; Quantity - 6 marks)

Analysis: 32 marks.

Viva: 5 marks

Each radical with procedure: 8 marks

(Spotting for each radical: 5 marks

Detection of the group: 5 marks)