ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

Department of Chemistry

Bankura Christian College

ACADEMIC YEAR: 2023-24 (Even Semester January, 2023 to June, 2023)

2nd Semester (Programme) Practical

C1B- P2 – Inorganic Chemistry-II – Lab
Name of faculty member: Dr.SaugataSain

Unit – 1: Qualitative Semi -Micro analysis: Introduction to Semi-micro Qualitative Inorganic Analysis, Preliminary dry tests for common cation and anion radicals

Unit – 2: Wet tests and confirmatory tests for anion radicals

Unit – 3: Wet tests and confirmatory tests for cation radicals

MONTH	WEEK	TOPICS TO BE TAUGHT
March	3	Introduction to Semi-micro Qualitative Inorganic Analysis
March	4	Preliminary dry tests (ignition test including observation of sublimate if formed) for common cation likeMn^{2+}, Fe^{3+}, Ni^{2+}, Cu^{2+}, NH_4^+.
April	1	Preliminary dry tests (Flame test, Borax bead test, Fusion test) for common cation likeNa^+, K^+, Ca^{2+}, Sr^{2+}, Ba^{2+}, Cr^{3+}, Mn^{2+}
April	2	Do
April	3	Preliminary dry tests for common anion radicals (heating with dilute H_2SO_4, concentrated H_2SO_4 and MnO_2 with concentrated H_2SO_4 like anionsCl^-, Br^-, I^-, NO_2^-, NO_3^-, S^{2-}, BO_3^{3-},
April	4	Wet tests and confirmatory tests for anion radicals like Cl^-, Br^-, I^-, NO_2^-, NO_3^-, S^{2-}, SO_4^{2-} using aqueous as well as Na_2CO_3 extracts
May	1	Do
May	2	Wet tests and confirmatory tests for cation radicals (Analytical group analysis): Na^+, K^+, Ca^{2+}, Sr^{2+}, Ba^{2+}, Cr^{3+}, Mn^2, Fe^{3+}, Ni^{2+}, Cu^{2+}
May	3	Do
May	4	Do
June	1	Unknown sample analysis
June	2	Unknown sample analysis