

# ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

Department of Chemistry

Bankura Christian College

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

6<sup>th</sup> Semester (Programme)

DSE T2 – Polymer Chemistry

Name of faculty member: Dr.SaugataSain

**Unit – 1:** Brief introduction to preparation, structure, properties and application of the following polymers: polyolefins, polystyrene and styrene copolymers, poly(vinyl chloride) and related polymers, poly(vinyl acetate) and related polymers, acrylic polymers, fluoro polymers,

**Unit – 2:** Brief introduction to preparation, structure, properties and application of the following polymers: Polyamides and related polymers. Phenol formaldehyde resins (Bakelite, Novalac), polyurethanes, silicone polymers, polydienes, Polycarbonates, Conducting Polymers, [polyacetylene, polyaniline, poly(p-phenylenesulphidepolypyrrole, polythiophene)].

MONTH	WEEK	TOPICS TO BE TAUGHT
March	2	Preparation, structure, properties and application of polyolefins, polystyrene and styrene copolymers.
March	3	Preparation, structure, properties and application of poly(vinyl chloride) and related polymers
March	4	Preparation, structure, properties and application of poly(vinyl acetate) and related polymers.
April	1	Preparation, structure, properties and application of acrylic polymers, fluoro polymers.
April	2	Revision of Unit-1
April	3	Preparation, structure, properties and application of polyamides and related polymers. Phenol formaldehyde resins (Bakelite, Novalac).
April	4	Preparation, structure, properties and application of polyurethanes, silicone polymers, polydienes and polycarbonates
May	1	Preparation, structure, properties and application of conducting polymers, [polyacetylene, polyaniline, poly(p-phenylene sulphide polypyrrole, polythiophene)].
May	2	Revision of Unit-2
May	3	Class test:Unit-1
May	4	Class test:Unit-2

