

# Surya Sen Mahavidyalaya

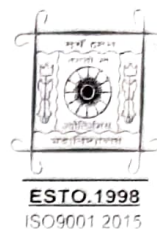
NAACACCREDITED

A Multi Stream Govt. Aided College &

Recognised by UGC u/s 2(f) & 12(b)

(Affiliated to University of North Bengal)

Department of Chemistry



Date: 04.10.2024

The following categories of students are asked to submit a project report on the any one of the following topics, as their internal assessment, on or before 06.11.2024.

Semester	Paper	Teacher	Topics
5 <sup>th</sup>	DSE2 (H) + DSE1(P)	BB+ SM	1. Glass- definition, composition, characteristics, properties, application 2. ceramics- definition, composition, application 3. different types of glass 4. Fullerenes & carbon nano-tubes 5. Batteries and their importance 6. Importance of surface coatings 7. Different Types of Catalysis
3 <sup>rd</sup>	SEC- Sem 3 Major	BM  AI	1. Role of Water in food 2. Food additives - types, benefits and Risks 3. Biological functions of vitamins and fatty acids 4. Role of Ca, P, Na and Zn in body and their food source 5. Risks of using food additives 6. Milk: Composition and Chemical analysis. 7. Enzymes 8. Carbohydrates in food 9. Lipids in food 10. Proteins and Amino acids in food.
3 <sup>rd</sup>	Minor-2	BB+AI +BM	1. Slater's rule for effective nuclear charge, its applications & limitations 2. Covalent radii and Van der Waal radii 3. Modern periodic table-an overview 4. Addition reactions of Alkenes 5. Electrophilic aromatic substitution 6. : Physical properties of liquids 7. Surface tension and coefficient of Semester-III viscosity, and their determination. 8. Effect of addition of various solutes on surface tension and viscosity. 9. Law of rational indices, Miller indices. 10. Symmetry elements. 11. X-ray diffraction, Bragg's law. 12. Analysis of crystal structure of NaCl, and KCl.

Biswajit Bhaumik  
HOD & Associate Prof.

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