Curriculum Plan

(Odd Semester 2022-2023) Semester-III

Teacher Name: Dr. Shiv Kumar

Name of Paper, B.Sc. (H) -GE, Chemistry and Society (2 Periods Per Week)

Contorta	Alloactions	Month	Tutoriala/
Contents	Allocations of Lectures	Month wise Schedule to be followed	Tutorials/ Assignment/ Presentation
Basics of chemistry: Periodic table, Atom and molecules, chemical bonding, properties and chemical reactions with simple examples and illustration.	-	$\begin{array}{l} August-\\ 21^{st} to\\ August-\\ 30^{th} \end{array}$	Related Problems, Class Test, Home - Register
Chemistry in Heritage: Extraction and uses of metals like iron and stone in ancient times, metals in ornaments, medicines, weapons and chemistry for preservatives, basics of preservation and few examples of preservatives.		September– 4 th to September – 20 th	Overview, -Related Problems, -Previous Year Qsn Papers discussion,
Chemistry in Life: Edible and non- edible molecules, biochemistry of foods and medicine with examples: Aspirin, Paracetamol. Ibuprofen and Penicillin, Cephalosporin, Chemistry for industry: Artificial sweeteners, Soaps and detergents and cosmetics, Polymer and Plastics: Uses and environmental issues.	-	September – 27 th to October 9 th	Assignm ent
Chemical pollution and Toxicity: Chemical source of water, air and soil pollution, biomagnification and metal toxicity with example and illustrations. monitoring of air pollution.		October – 11 th to October- 25 th	
Testing of chemicals: Flame test, solubility test, qualitative and quantitative identification of ions in natural samples like metal copper, iron and chromium ores and adulterant in foods.	-	October – 30 th to November- 6 th	 Syllabus Overview Reference Books Problem Solving

Future of chemistry: Basics of green chemistry, Reuse and recycling of by-products, zero waste chemistry and Alternate fuel and energy providing chemicals: biodiesel, natural gas and hydrogen.	November – 8 th to Last week	
		- Syllabus Overview - Reference Books - Problem Solving