LESSON PLAN- B.Sc 2nd SEMESTER

SUBJECT- INORGANIC CHEMISTRY TEACHER'S NAME- Dr. ANJU SIWACH

SESSION- 2023-23

WEEKS	SYLLABUS
10-01-2023 to 31-01-2023	B.Sc 1 st , 3 rd , 5 th semester PRACTICAL EXAMINATION
01-02-2023 to 04-02-2023	Hydrogen Bonding Hydrogen Bonding – Definition, Types, effects of hydrogen bonding on properties of substances,
06-02-2023 to 11-02-2023	Application and Brief discussion of various types of Vander Waals Forces
13-02-2023 to 18-02-2023	Metallic Bond and Semiconductors Metallic Bond- Brief introduction to metallic bond, band theory of metallic bond, Semiconductors- Introduction, types and applications. (Assignment + Unit Test)
	s-Block Elements
20-02-2023 to 25-02-2023	Comparative study of the elements including, diagonal relationships, salient features of hydrides (methods of
27-02-2023 to 04-03-2023	preparation excluded), solvation and complexation tendencies including their function in biosystems.
13-03-2023 to 18-03-2023	(Assignment + Unit Test)
20-03-2023 to 25-03-2023	Chemistry of Noble Gases Chemical properties of the noble gases with emphasis on their low chemical reactivity,
27-03-2023 to 01-04-2023	chemistry of xenon, structure and bonding of fluorides,
03-04-2023 to 08-04-2023	oxides & oxyfluorides of xenon. (Assignment + Unit Test) p-Block Elements Emphasis on comparative study of properties of p-block elements (including diagonal relationship and excluding
10-04-2023 to 15-04-2023	methods of preparation). Boron family (13th group):- Diborane – properties and structure (as an example of electron – deficient compound and multicentre bonding), Borazene – chemical properties and structure Trihalides of Boron – Trends in lewis acid character structure of aluminium (III) chloride.

17-04-2023 to 22-04-2023	Carbon Family (14th group) Catenation, p π – d π bonding (an idea), carbides, fluorocarbons, silicates structural aspects), silicons – general methods of preparations, properties and uses.
24-04-2023 to 29-04-2023	Nitrogen Family (15th group) Oxides – structures of oxides of N, P. oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus. Structure of white, yellow and red phosphorus.
01-05-2023 to 06-05-2023	Oxygen Family (16th group) Oxyacids of sulphur – structures and acidic strength H ₂ O ₂ – structure, properties and uses.
08-05-2023 to 13-05-2023	Halogen Family (17th group) Basic properties of halogen, interhalogens types properties, hydro and oxyacids of chlorine – structure and comparison of acid strength. (Assignment + Unit Test)
15-05-2023 to 16-05-2023	Revision
17-05-2023 onwards	MDU examination