LESSON PLAN- B.Sc 2nd SEMESTER

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

SESSION- 2021-22

WEEKS	SYLLABUS
21-03-2022 to 31-03-2022	B.Sc 1 st , 3 rd , 5 th semester PRACTICAL EXAMINATION
01-04-2022 to 09-04-2022	Hydrogen Bonding Hydrogen Bonding – Definition, Types, effects of hydrogen bonding on properties of substances, application and Brief discussion of various types of Vander Waals Forces
11-04-2022 to 16-04-2022	Metallic Bond and Semiconductors Metallic Bond- Brief introduction to metallic bond, band theory of metallic bond Semiconductors- Introduction, types and applications.
	s-Block Elements
18-04-2022 to 23-04-2022	Comparative study of the elements including, diagonal relationships, salient features of hydrides (methods of
25-04-2022 to 30-04-2022	preparation excluded), solvation and complexation tendencies including their function in biosystems.
02-05-2022 to 07-05-2022	Chemistry of Noble Gases Chemical properties of the noble
09-05-2022 to 14-05-2022	gases with emphasis on their low chemical reactivity, chemistry of xenon, structure and bonding of fluorides, oxides & oxyfluorides of xenon.
	p-Block Elements
16-05-2022 to 21-05-2022	Emphasis on comparative study of properties of p-block elements (including diagonal relationship and excluding methods of preparation).
23-05-2022 to 28-05-2022	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.
30-05-2022 to 04-06-2022	Carbon Family (14th group) Catenation, p π – d π bonding (an idea), carbides,

06-06-2022 to 11-06-2022	fluorocarbons, silicates structural aspects), silicons – general methods of preparations, properties and uses. 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.
13-06-2022 to 18-06-2022	Oxygen Family (16th group) Oxyacids of sulphur – structures and acidic strength H ₂ O ₂ – structure, properties and uses.
20-06-2022 to 25-06-2022	Halogen Family (17th group) Basic properties of halogen, interhalogens types properties, hydro and oxyacids of chlorine – structure and comparison of acid strength.
27-06-2022 to 01-07-2022	Assignments, Viva,
02-07-2022 onwards	Test, Revision MDU examination