

## LESSON PLAN- B.Sc 6<sup>th</sup> SEMESTER

SUBJECT- INORGANIC CHEMISTRY

TEACHER'S NAME- Dr. ANJU SIWACH

### SESSION- 2021-22

WEEKS	SYLLABUS
21-03-2022 to 31-03-2022	<b>B.Sc 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup> semester PRACTICAL EXAMINATION</b>
01-04-2022 to 09-04-2022	<b>Organometallic Chemistry</b> Definition, nomenclature and classification of organometallic compounds. Preparation, properties, and bonding of alkyls of Li, Al
11-04-2022 to 16-04-2022	Preparation, properties, and bonding of alkyls Hg, and Sn
18-04-2022 to 23-04-2022	A brief account of metal-ethylenic complexes, Mononuclear carbonyls and the nature of bonding in metal carbonyls.
25-04-2022 to 30-04-2022	<b>Acids and Bases, HSAB Concept</b> Arrhenius, Bronsted – Lowry, the Lux – Flood, Solvent system and Lewis concepts of acids & bases,
02-05-2022 to 07-05-2022	Relative strength of acids & bases
09-05-2022 to 14-05-2022	Concept of Hard and Soft Acids & Bases. Symbiosis, electronegativity and hardness and softness
16-05-2022 to 21-05-2022 23-05-2022 to 28-05-2022	<b>Bioinorganic Chemistry</b> Essential and trace elements in biological processes, metallo-porphyrins with special reference to haemoglobin and myoglobin.
30-05-2022 to 04-06-2022	Biological role of alkali and alkaline earth metal ions with special reference to Ca <sup>2+</sup> and Nitrogen fixation.

06-06-2022 to 11-06-2022	<b>Silicones and Phosphazenes</b> Silicones: preparation, properties,
13-06-2022 to 18-06-2022	Silicones: structure and uses
20-06-2022 to 25-06-2022	Phosphazenes: Preparation, properties, structure and uses.
27-06-2022 to 01-07-2022	Assignments, Viva,
02-07-2022 onwards	Test, Revision MDU examination