

Dr. B. B. HEGDE FIRST GRADE COLLEGE, KUNDAPURA
DEPARTMENT OF CHEMISTRY
LESSON PLAN/CURRICULUM PLAN 2019-2020 (II- Term)

Subject and Code	Teachers	Class and Semester	Date
Chemistry paper II BSCCHC181	Mrs. Vismitha.V Ms. Shubha	I B.Sc – II Sem	01/01/2020

Chapter	Objectives	Methodology/Instr uctional techniques	Students learning points
UNIT - I Gaseous state, Liquid state and Solvents.	To know the concept of Maxwell's distribution of molecular velocities and relationship between critical constants and van der Waals constants. Liquid crystals classification with examples. Physical properties of solvents, classification with examples.	Lecturing Chalk and talk Discussion of possible questions	. thermodynamics equation related to gaseous state molecules. Application of liquid crystal in LCDs and thermal sensing. Different types of solvents and its density, dipole moment and dielectric constants etc.
UNIT – II s- Block elements and p- Block elements.	To understand the properties of some complex hydrides. Comparative study of p-block elements and their compounds. Explanation about inter halogen compounds.	Lecturing Chalk and Talk Discussion of possible questions	Preparation and applications of some hydride. Solubilities of some metal halides. Structure and bonding of noble gases.
UNIT – III Industrial chemistry, fuels, glass, cement, ceramics, insulators, paints, refractories, cane sugar, paper and chemical fertilizers.	To know the concept of structure and applications of some inorganic polymers. Raw materials, preparation and uses of fuels, glass, cement, ceramics, cane sugar and paper.	Lecturing Chalk and talk Discussion of possible questions	Structure and applications of inorganic halides. Industrial manufacture of some materials and their uses.
UNIT – IV Reagents and their synthetic utility Electrophilic addition to carbon – carbon multiple bonds.	Synthesis of organic compounds with mechanism. Understand the concept of electrophilic addition reaction with mechanism and stereoselectivity.	Lecturing Chalk and talk Discussion of possible questions	Different oxidation and reduction reactions during reagents synthesis. Nature of carbon bonds during electrophilic addition reactions.

Requirements:
Blackboard, chalk

E – Resources;

<https://www.masterorganicchemistry.com>

<https://en.m.wikibooks.org>>

<https://library.stanford.edu>

<https://chem.liberetexts.org>>

Books for Reference:

- Principles of inorganic chemistry by Puri, Sharma and Kalia
- Mechanisms in advanced organic chemistry by R.P.Narain.
- Organic reaction mechanisms by Ahulwaila.
- Organic spectroscopy by P.S.Kalsi.
- Principles of Physical chemistry by Gurudeep raj.

Notes:

Solution having solute in gaseous state and solvent in liquid state are called gas – liquid solution. Examples solutions of oxygen in water and mixture of carbon dioxide in water. Industrial chemistry is concerned with using chemical and physical processes to transform raw materials into products that are beneficial to humanity. Organic chemistry is the study of the structure ,properties, composition, reaction and preparation of carbon containing compounds.



HOD

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21/01/2020