

## Lesson Plan- Division-E

Lect No	Topic Planned	Planned Date	Actual Date	Mapped with CO	Content Delivery Method
<b>Module-VI (Water)</b>					
1	Water (Introduction), Impurities in water, Hardness of water	14/08/2019	14/08/2019	CO6	Chalk & Board
2	Numericals based on hardness of water and unit conversions	16/08/2019	16/08/2019	CO6	Chalk & Board
3	Determination of Hardness of water by EDTA method	21/08/2019	21/08/2019	CO6	Chalk & Board
4	Numericals based on hardness of water by EDTA method	22/08/2019	22/08/2019	CO6	Chalk & Board
5	Ion Exchange process, Numericals based on Ion Exchange process	23/08/2019	23/08/2019	CO6	Chalk & Board
6	Electrodialysis and Reverse osmosis, Ultra filtration	27/08/2019	27/08/2019	CO6	Chalk & Board
7	BOD, COD( def,& significance), Numerical problems related to BOD & COD	28/08/2019	28/08/2019	CO6	Chalk & Board
<b>Module-IV ( Phase rule -Gibb`s Phase rule)</b>					
1	Phase rule (Gibb`s Phase rule): Statement and terms involved with examples	11/09/2019	11/09/2019	CO4	Chalk & Board
2	One component system (Water),	17/09/2019	17/09/2019	CO4	Chalk & Board
3	Reduced phase rule, Two component system (Pb-Ag), Advantages and limitations of phase rule	18/09/2019	18/09/2019	CO4	Chalk & Board
4	Numerical problems on phase rule	24/09/2019	24/09/2019	CO4	Chalk & Board
<b>Module-V ( Polymers)</b>					
1	Introduction to polymers: Definition- Polymer and polymerization	25/09/2019	25/09/2019	CO5	Chalk & Board
2	Properties of polymers- Molecular weight (Number average and weight average), Numericals problems on molecular weight,	01/10/2019	01/10/2019	CO5	Chalk & Board
3	Effect of heat on the polymers (Glass transition temperatures), Viscoelasticity, Conducting polymers,	10/10/2019	10/10/2019	CO5	Chalk & Board
4	Classification-Thermoplastic and Thermosetting polymers, Compounding of plastic,	11/10/2019	11/10/2019	CO5	Chalk & Board
5	Fabrication of plastic by Compression, Injection, Transfer and Extrusion molding,	15/10/2019	15/10/2019	CO5	Chalk & Board
6	Preparation, properties and uses of PMMA and Kevlar	15/10/2019	17/10/2019	CO5	Chalk & Board
<b>Module-I (Atomic and Molecular Structure )</b>					
1	Atomic and molecular structure Atomic orbitals (s,p,d,f) orbital shapes, Electronic	17/10/2019	18/10/2019	CO1	Chalk & Board

	configuration				
2	Molecular orbital theory (MOT), bonding and anti-bonding orbitals, Molecular orbital diagrams of Homonuclear and Heteronuclear diatomic molecules – Be <sub>2</sub> , O <sub>2</sub> ,	18/10/2019	19/10/2019	CO1	Chalk & Board
3	CO, NO their bond order and magnetic properties	22/10/2019	22/10/2019	CO1	Chalk & Board
	<b>Module-II (Aromatic systems and their molecular structure)</b>				
1	Define Aromaticity, Huckel's rule,	24/10/2019	24/10/2019	CO2	Chalk & Board
2	Structure and bonding of benzene and pyrrole.	29/10/2019	25/10/2019	CO2	Chalk & Board
	<b>Module-III (Intermolecular forces and critical phenomena)</b>				
1	Ionic, dipolar and Vander Waal's interactions,	31/10/2019	31/10/2019	CO3	Chalk & Board
2	Equations of state of real gases and critical phenomena.	01/11/2019	01/11/2019	CO3	Chalk & Board