LESSON PLAN OF 3rd SEMESTER CHEMICAL ENGINEERING		
Discipline:- CHEMICAL	Semester:-3RD	Name of the Teaching Faculty Prince Das
Subject:- PHYSICAL CHEMISTRY	No of Days/per Week Class Allotted:-04	
Week	**ClassDay**	**Theory/PracticalTopics**
1st	1st	**PHYSICALPROPERTIESOFLIQUIDS** Intermolecularforcesinliquid
	2nd	VapourpressureanditsEffectonTemperatureandBoilingpoint
	3rd	SurfaceTension
	4th	Viscosity,MeasurementofviscositybyOstwaldMethod
2nd	1st	RefractiveIndex,specificRefraction
	2nd	DeterminationofRefractiveindexbyRefractometer
	3rd	OpticalActivity,measurementofOpticalActivity
	4th	MeasurementsofOpticalActivity
3rd	1st	Solvedproblemsbasedonphysicalpropertiesofliquids
	2nd	ChapterwiseTest
	3rd	**SOLUTIONS** Solutionandtypesofsolutions
	4th	WaysofExpressingconcentration
4th	1st	Solvednumericalrelatedtoconcentration
	2nd	SolutionsinGasesinGases
	3rd	Henry'slawandsolvedproblems
	4th	**Solutioninliquidsinliquids**
5th	1st	Solubilityofpartiallymiscibleliquids
	2nd	Solubilityofsolidinliquid
	3rd	Equilibriumconcept,solubilitycurve
	4th	Raoult'slaw,idealsolution
6th	1st	Explanationofloweringofvapourpressureanditsmeasurements
	2nd	Conceptofelevationofboilingpointanddepressionoffreezingpoint
	3rd	**OSMOSISANDOSMOTICPRESSURE** OsmosisandOsmoticPressurewithExample
	4th	Functionofsemi-permeableMembrane
7th	1st	OsmoticpressureandIsotonicpressure
	2nd	Theoriesofosmosis
	3rd	Reverseosmosis
	4th	ThelawsofOsmoticPressure
8th	1st	SolvedproblemsonOsmosis

	2nd	RelationbetwwenVapourpressure&Osmoticpressure
	3rd	RelationbetweenVapourpressure&OsmoticPressure
	4th	Simpleproblems
9th	1st	SurpriseTestonchapter-1,2,3
	2nd	**DISTRIBUTIONLAW** Introduction
	3rd	Nernst'sDistributionLaw
	4th	Equilibriumconstantfromdistributionlaw
10th	1st	SolventExtraction
	2nd	MultipleExtraction
	3rd	Conceptofliquid-liquidChromatography
	4th	ApplicationofDistributionlaw
11th	1st	ApplicationofDistributionlaw
	2nd	ApplicationofDistributionlaw
	3rd	NumericalproblemsrelatedtoDistributionlaw
	4th	**COLLOIDS** ColloidsandTypesofcolloidalsystem
12th	1st	Characteristicsofsolutions
	2nd	Applicationsofcolloids
	3rd	Methodsofpreparationofsols&purificationsofsols
	4th	Optical,kineticandelectricalpropertiesofsols
13th	1st	Emulsionandtypesofemulsion
	2nd	RolesofEmulsifier
	3rd	PreparationofEmulsionsandthereproperties
	4th	Gel,typesofgel,
14th	1st	PropertiesandApplicationofgel
	2nd	**ADSORPTION** Introduction
	3rd	TypesofAdsorption
	4th	PhysicaladsorptionandChemisorption
15th	1st	ApplicationofAdsorption
	2nd	Ion–exchangeadsorption
	3rd	Compareabsorptionandadsorption
	4th	Ion–exchangeapplication.