

2. A Syllabus of the Work in Outline

SEM-I

(C2T)

Kinetic theory and gaseous state:

Kinetic theory of gases: Concept of pressure and temperature, collision of gas molecules; collision diameter; collision number and mean free path; Frequency of binary collisions; wall collision and rate of effusion.

Maxwell's distribution of speed and energy: Maxwell's distribution of speed.

Kinetic energy distribution:

Calculation of average, root mean square and most probable values.

Calculation of number of molecules having energy $\geq \epsilon$; Equipartition of energy and its application.

Real gas and virial equation: Deviation of gases from ideal behaviour, compressibility factor, Boyle tempⁿ, Andrews and Amagat's plot, van der Waals equation; virial eqnⁿ, intermolecular forces.

Chemical kinetics: Rate law, Extent of reaction; rate constants; order; Forms of rates of first, second and nth order

reactions; Pseudo first order reactions; opposing reaction; consecutive reactions and parallel reactions. Arrhenius equation, collision theory, Lindemann theory, Transition state, Homogeneous catalysis; salt effect, Michaelis-Menten equation, Lineweaver-Burk plot, Turn-over number; Autocatalysis reactions.

(C.P.)

Experiment 1 \Rightarrow Determination of p^H of unknown solution (buffer); by color matching method.

Experiment 2 \Rightarrow Study of kinetics of decomposition of H_2O_2 .

SFM-III

(C5T)

Application of thermodynamics-I \Rightarrow chemical potential and activity, partial molar quantities, reaction between chemical potential and Gibbs's free energy and other thermodynamic state functions; chemical potential (μ); Gibbs-Duhem eqⁿ; fugacity; equation of state, change in G, S, H and V during mixing for binary soln; chemical equilibrium \Rightarrow thermodynamic conditions for equilibrium, van't Hoff's reaction isotherm; definitions of K_p, K_c and K_x ; van't Hoff's reaction isobar and isochore, Nernst's distribution law.

viscosity \Rightarrow Creeping features of fluid flow; Newton's equation, viscosity coefficient; Poiseuille's equation; Principle of determination of viscosity co-efficient of liquids by falling sphere method; Temperature variation of viscosity of liquids and comparison with that of gases.

C5P.

Experiment 1: Study of viscosity of unknown liquid (glycerol, sugar) with respect to water.

Experiment 2: Determination of partition co-efficient for the distribution of I_2 between water and CCl_4 .

Experiment 3: Determination of K_{eq} for $KI + I_2 = KI_3$, using partition co-efficient between water and CCl_4 .

SEM-IV [C8T]

Application of thermodynamics-II \Rightarrow colligative properties \Rightarrow Vapour pressure of solution; ideal solution, ideally dilute solution and colligative property; Raoult's law; Thermodynamic derivation using chemical potential to derive relations b/w the four colligative property (i) relative lowering of vapour pressure (ii) elevation of boiling point (iii) depression of freezing point

3. Detailed Syllabus

(A) First Term

From 2021 To 2022

(v) osmotic pressure and amount of solute. Applications in calculating molar mass of normal, dissociated and associated solutes in solution; Abnormal colligative property.

Phase rule \Rightarrow Definitions of phase, component and degree of freedom; Phase rule and its derivations; Definition of phase diagram; Phase diagram of water, CO_2 , Sulphur. First order phase transition and Clapeyron equation; Clausius-Clapeyron equation - derivation and use; Liquid vapour equilibrium for two component systems; Phenol-water system. Three component systems, water-chloroform-acetic acid system, triangular plots.

Binary solutions \Rightarrow Ideal solution at fixed temperature and pressure, principle of fractional distillation, Duham-Margules equation; Henry's law; Raoult's law; positive and negative deviations; ideal behavior; Azeotropic solution; Liquid-liquid phase diagram using phenol-water system; Solid-liquid phase diagram; Eutectic mixture.

[CSP]

Experiment-1: Potentiometric titration of Mohr's salt solution against standard $\text{K}_2\text{Cr}_2\text{O}_7$ solution.

Experiment-2: Study of Phenol-water phase diagram.

SEM-V [DEE-1T]

Bravais Lattice and Laws of crystallography \Rightarrow Types of Solids, Bragg's law of diffraction; Laws of crystallography [Hairy's law and Steno's law]; permissible symmetry axes in crystals; Lattice, Space lattice, unit cell, crystal planes, Bravais lattice. Packing of uniform hard sphere, close packed arrangements (fcc and hcp); Tetrahedral and octahedral voids. void space in P-type, F-type and I-type cubic systems.

Crystal planes \Rightarrow Distance between consecutive planes [cubic, tetragonal and orthorhombic lattices]; Indexing of planes, Miller indices; Calculation of d-hk; Relation between molar mass and unit cell dimension for cubic system; Bragg's law (derivation).

Determination of crystal structure: Powder method; Structure of NaCl and KCl crystals.

Specific heat of solid: Co-efficient of thermal expansion, thermal compressibility of solids; Dulong-Petit's law; Perfect

crystal model; Einstein's theory - derivation from partition function, limitations; Debye's T^3 law - analysis at the two extremes.

3rd law \Rightarrow Absolute entropy, Planck's law, calculation of entropy, Nernst heat theorem.

Adiabatic demagnetization: Approach to zero kelvin, adiabatic cooling, demagnetization, adiabatic demagnetization - involved cooling

Polymers \Rightarrow classification of polymers, nomenclature, molecular forces and chemical bonding in polymers, texture of polymers; criteria

for synthetic polymer formation; Relationships between functionality; extent of reaction and degree of polymerization; mechanism and kinetics of step growth and co-polymerization; conducting polymers.

SEM - VI [C-14T]

Lambert-Beer's law: electromagnetic radiation; Lambert-Beer's law and its violation, Stark-Einstein law of photochemical equivalence, quantum yield, actinometry.

Photochemical processes \Rightarrow Frank-Condon principle, Bond dissociation; Decay of excited states by radiative and

non radiative paths, Pre-dissociation; Fluorescence and phosphorescence; Jablonskii diagram. Photochemical reaction, photostationary state,

HI-decomposition, H_2-Br_2 reaction, dimerisation of anthracene, photosensitized reaction, quenching rate, photostationary states; chemiluminescence

Surface tension \Rightarrow Surface tension, surface energy, excess pressure, capillary rise and surface tension, work of

cohesion and adhesion, vapour pressure over curved surface, Temperature dependence of surface tension.

3. Detailed Syllabus

(B) Second Term

From 2021 To 2022

Colloids \Rightarrow Lyophobic and lyophilic sols, Coagulation and Schulz-Hardy rule, Zeta potential and Stern double layer. Tyndall effect, Electrokinetic phenomena. Determination of Avogadro number by Perrin's method, Stability of colloids and Zeta potential; Micelle formation.

[C-19P]

Exp 1 \Rightarrow Determination of surface tension of a liquid using stalagmometer.

Exp 2 \Rightarrow Determination of CMC from surface tension measurements.

SEM-11 [GF-2T]

Solids \Rightarrow Forms of solids; crystal systems, unit cells, Bravais lattice types, symmetry elements; Law of crystallography, Miller indices of diffⁿ planes and interplanar distance; Bragg's law, Strⁿ of NaCl, KCl and CsCl, defects in crystals; Glasses and big crystals.

Chemical kinetics \Rightarrow Introduction of rate law, Order and molecularity; Extent of reaction; First, 2nd and nth order reactions.

Pseudo first order reactions; order of a reaction by Half-life and differential method, opposing reactions; consecutive reactions and parallel reactions; Temperature dependence of rate constant;

Arrhenius equation, collision theory; Lindemann theory of unimolecular reaction; outline of T-ST.

SEM-11 [GF-3T]

Chemical equilibrium: degree of advancement; variation of free energy with degree of advancement; Equilibrium constant, Gibbs free energy, K_p , K_c and K_x relation, van't Hoff's reaction isotherm; isobar and isochore from diffⁿ standard states; Le-chatelier's principle.

Ionic Equilibria \Rightarrow Strong, moderate and weak electrolytes, degree of ionization, ionization constant and ionic p_H of water, p_H scale, common ion effect. Salt hydrolysis, Buffer solutions, Solubility p_H, applications of solubility p_H principle.

[SFMIV \Rightarrow GE-1T]

Colligative properties \Rightarrow Vapour pressure of solⁿ, Raoult's law. Thermodynamic derivation using chemical potential to derive relations between the four colligative properties i. relative lowering of vapour pressure (ii) elevation of boiling point (iii) depression of freezing point (iv) osmotic pressure

Phase rule \Rightarrow component and degree of freedom, phase rule, phase diagram of water, CO₂, Sulphur. Clausius-Clapeyron equation. Azeotropic solution, Henry's law

Bvoc-1st year \Rightarrow

Section 1 \Rightarrow Extra nuclear structure of atoms: Bohr's theory, Hydrogen spectrum, Hund's rule, electronic configuration, Aufbau principle, s, p, and d orbitals

Radioactivity \Rightarrow Natural radioactivity units, law of radioactive half-life and average life of radio elements, stability, m/p ratio, nuclear binding energy, fission, fusion, artificial radioactivity,

Chemical Periodicity \Rightarrow electronic configuration, s, p, d, f block elements, ionization potential, electron affinity, and electronegativity, Periodic and group-wise variation of above properties. Diagonal relationship, atomic radii, electronegativity.

Chemical bonding \Rightarrow (i) Ionic bonding,

(ii) covalent bonding.

Co-ordinate bonds and co-ordination compounds.

[Bvoc-2nd year]

(i) Gaseous state of matter \Rightarrow Gas law, average kinetic energy, Boltzmann constant, Maxwell's distribution, mean free path, collision frequencies, Real gases, compressibility factor.

3. Detailed Syllabus

(C) Third Term

From 2021 To 2022

2. Liquid state: vapour pressure, surface tension, viscosity.

3. Thermodynamics \Rightarrow The first law, reversible and irreversible work. Concepts of internal energy, enthalpy, isothermal and adiabatic expansion. Criteria of a perfect gas, the second law, Carnot's cycle, Joule-Thomson effect.

4. Dilute Solutions \Rightarrow The colligative properties, lowering of vapour pressure, elevation of boiling point, depression of freezing point, van't Hoff factor.

5. Dilute Solutions \Rightarrow The colligative properties, lowering of vapour pressure, elevation of boiling point, depression of freezing point. Abnormal behaviour, van't Hoff factor.

6. Catalysis \Rightarrow catalyzed reactions, Elementary idea of absorption, autocatalysis, catalytic poisons, promoters, enzyme catalysis.

7. Electrochemistry \Rightarrow Arrhenius theory, equivalent and molecular conductivity, Kohlrausch's law, conductometric titration.

8. Colloidal State \Rightarrow Different type of colloids, method of preparation of lyophobic colloids, Gold number, isoelectric point, Tyndall effect.

[B.Voc-Practical]

(i) Inorganic qualitative analysis.

(ii) Basic radicals

(iii) acid radicals

(iv) Inorganic quantitative analysis

(v) Qualitative analysis of single organic compound.

(vi) Organic preparation.

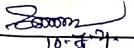
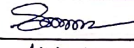
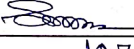
[B.Sc - 3rd year]

Applied chemistry: chemical separation process,
manufacturing of some important industrial
products. Amino acids, peptides and proteins. Nucleic acid,
Drug. Synthesis of dye and use, pesticides, Food additives
Hydrogenation of oil, Error analysis.

IV. DIARY

Date week ending	FORECAST	Amount Taught
04.07.2021		
to	Explain chemical potential of anion in solution with equation and example. Activity and activity co-efficients of ions in solution with derivation and some problems and Debye-Huckel limiting law - brief qualitative description of the postulates involved.	2 periods
10.07.2021		
	Explain Electromagnetic radiation. With characteristics, Lambert-Beer's law with equation and give some mathematical problems:	3 periods
	Introduction rate law; order and molecularity with example and definition.	2 periods
	Vapour pressure of sol ^m and Raoult's law.	1 periods
Date	Home task for the week	
05.07.2021	Give some mathematical problem in Debye-Huckel limiting law and some question of Lambert-Beer's law and give some mathematical problem in order and molecularity calculation.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-IV Electrical properties of molecules.	Give some notes on chemical potential, Debye-Huckel limiting law, and give some mathematical problem on this topic. Students solve the problem and understand the topic clearly.	<p style="text-align: center;">  10.7.21 Principal Muzbera Gengadhar Mahavidyalaya </p>
(SEM-VI) Photochemistry	Give some notes on the topic electromagnetic radiation and Lambert-Beer's law, and give some mathematical problem on that complex topic. Students solved the problem and some problem on the Lambert-Beer's law repeat the topic again.	<p style="text-align: center;">  10.7.21 Principal Muzbera Gengadhar Mahavidyalaya </p>
GCE-11 Chemical kinetics	Students clearly understand the topic and solve the mathematical problem.	
GCE-11 Colligative property	Give some notes on Raoult's law and give some mathematical problem on the topic. Student response positively.	<p style="text-align: center;">  10.7.21 Principal Muzbera Gengadhar Mahavidyalaya </p>

IV. DIARY

Date week ending	FORECAST	Amount Taught
11.07.2021 to 17.07.2021	vapour pressure of solution, ideal solutions, ideally diluted solutions and colligative proper- ties; Raoult's Law and some mathematical problem about vapour pressure of solution.	3 periods
	Physical significance of absorption co-efficient, laws of photore- action; and Stark-Einstein law of photochemical equivalence.	2 periods
	Extent of reaction, rate con- stants; Rate of 1st order and some mathematical problem on the rate law.	2 periods
	Elevation of boiling point and some math on that topic.	1 periods
Date	Home task for the week	
12.07.2021	Give some mathematical problem on Raoult's law and photo- chemical equivalence, and give some question on that topic.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-IV (Colligative properties)	Gives no notes on Raoult's law and some mathematical problem solved by the students. Students solve some problem on mathematical question repeat the topic again.	Somom Principal 17-7-21 Mugheria Gangadhar Mahavidyalaya
[SEM-VI] Photochemistry	Give some notes on laws of photochemistry and photochemical equivalence, students clearly understand the topic.	Somom Principal 17-7-21 Mugheria Gangadhar Mahavidyalaya
GE-11 chemical kinetics	Give some notes on rate law and some question and answer give the student about this topic, students ^{give} good response on this topic.	Somom Principal 17-7-21 Mugheria Gangadhar Mahavidyalaya
GE-IV colligative properties	Give notes on elevation boiling point and some mathematical problem give the student, students solve the problem and students understand the topic clearly.	Somom Principal 17-7-21 Mugheria Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
19.07.2021 10	thermodynamic derivation using chemical potential to derive	
21.07.2021	relations in relative lowering of vapour pressure and give some mathematical problem	3 periods
	quantum yield and actinometry examples of low and high quantum yields and give some mathematical problem on that topic.	2 periods
	2 nd and n th order reactions and their differential and integrated forms with derivation.	2 periods
	Depression of freezing point applications in calculating molar masses.	1 period
<small>Language Verbal/Non-Verbal/Analytical</small>		
Date	Home task for the week	
20.07.2021	Give some mathematical problem on vapour pressure and quantum yields and some questions give the students to solve them	

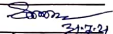
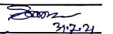
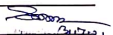
IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-IV colligative property.	Give notes on vapour pressure and students response very good, students understood the topic clearly.	<i>Suman</i> Principal 24/7/21 Mehar College, Mahabubnagar
SEM-VI Photochemistry	Give notes on quantum yield and actinometry, students some problem on quantum yield, repeat the topic again	<i>Suman</i> Principal 24/7/21 Mehar College, Mahabubnagar
GE-II Chemical kinetics	Give notes on 2 nd and n th order reactions and students solve the mathematical problem on that topic, students understand the topic very good.	
GE-V colligative property	Give notes on freezing point and students solved the mathematical problem on that topic and answer the question	<i>Suman</i> Principal 24/7/21 Mehar College, Mahabubnagar

IV. DIARY

Date week ending	FORECAST	Amount Taught
25.07.2021	Definitions of phase, component and degree of freedom, phase rule to and its derivations. Definition of phase diagram with plot and explanation.	2 periods
31.07.2021	Photochemical equilibrium and the differential rate of photochemical reactions. photostationary state with derivation.	3-periods
	Osmotic pressure and amount of solute, dissociated and associated solute in solution, abnormal colligative property.	3-periods
	Pseudo first order reactions, Determination of order of a reaction by half-life and differential method.	2 periods.
Date	Home task for the week	
27.07.2021	Give some question and problem on, phase rule, photostationary state, osmotic pressure and order of a reaction.	




IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-IV [colligative property]	Gives notes on phase rule and degree of freedom and give some problem and solution in this topic. students do not understand degree of freedom very good, so repeat this topic again.	 Principal Mangalika Gangadhar Mahapatra
SEM-VI Photochemistry	Gives notes on photochemical equilibrium and photostationary state and give some problem and answer in this topic, student response is very good.	 Principal Mangalika Gangadhar Mahapatra
GE-11 chemical kinetics	Gives notes on pseudo first order reaction and order and half-life of reaction and give some problem and solution in this topic, students have some problem in half-life of a reaction so repeat this topic again.	
GE-IV colligative property	Gives notes on osmotic pressure and abnormal colligative property, student's response very good.	 Principal Mangalika Gangadhar Mahapatra

IV. DIARY

Date week ending	FORECAST	Amount Taught
01.08.2021	First order phase transition	
01.08.2021	and capillary equation derivation and use of Liquid vapour equilibrium for two component systems and phase diagram system with derivation and problem.	3-periods
	Definition of phase, component and degree of freedom and phase rule with example.	2 periods
	Opposing reaction and consecutive reactions with derivation.	2 periods.
	Home task for the week	
03.08.2021	Give some question and problem in phase transition and phase rule and opposing reaction & consecutive reactions.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-IV colligative property.	Give note on phase transition and capillary equation. Liquid vapour equilibrium for two components and give some problem and solution. Student's response very good but have some problem on phase transition so repeat the topic again.	 Principal 7/8/21 Mughra Gangadhar Mahavidyalaya
SEM-IV CHEMICAL KINETICS	Give note on opposing reaction and consecutive reaction and give some problem and answer. Student's response very good.	 Principal 7/8/21 Mughra Gangadhar Mahavidyalaya
GE-IV colligative property & Problem.	Give note on phase, component and degree of freedom with examples. Student response very good but some problem in component, so repeat this topic again.	 Principal 7/8/21 Mughra Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
19.09.2021	to laws of crystallography.	
25.09.2021	Haas's law and Ueno's law permissible symmetry axes in crystals with derivation and problem.	2 periods.
Date	Home task for the week	
21.09.2021	Give some question on problem on laws of crystallography and symmetry axes.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SFM-V [Solid]	Give notion law of crystallography and permissible symmetry axes in crystals and give some problem for the students. Student solved the problem but have some problem on the symmetry axes so repeat the topic again.	Principal 25.9.21 Mangla Gangwar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
02.09.2021 to 02.10.2021	Space lattice, unit cell, crystal planes with definition and picture.	2 periods
	Thermodynamic conditions for equilibrium + degree of advancement, van't reaction of molten with derivation.	2-periods
	Thermodynamic conditions for equilibrium, degree of advancement, variation of free energy change with degree of advancement.	2-periods
Date	Home task for the week	
27.09.2021	Give some question and problem on unit cell, crystal planes, equilibrium, van't reaction of molten and free energy change.	

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VI Chemical Equilibrium	Give notes on Equilibrium condition and van't reaction molten. Students response very good.	Principal 21/02/21 Mugheria Gangadhar Mahavidyalaya
SEM-V (Solid)	Give notes on space lattice, unit cell and crystal planes. Students have problem on unit cell so this topic repeat again for students.	Principal 21/02/21 Mugheria Gangadhar Mahavidyalaya
GE-III Chemical Equilibrium.	Give notes on equilibrium condition and free energy. Students give good answer in this topic. And response is very good.	Principal 21/02/21 Mugheria Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
15.10.2021	Brown lattice, packing of uniform hard sphere close packed arrangements have local close packing with derivation and problem.	3-periods
	Variation of free energy with degree of advancement, Equilibrium constant with derivation and problem.	2-periods
	Equilibrium constant and Standard Gibbs free energy change with derivation and problem.	2-periods
Date	Home task for the week	
15.10.2021	Give some question and problem on Brown lattice packing fraction, free energy change and equilibrium constant.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-4 [Solid]	Give notes on Brown lattice packing of hard sphere and close packing. Students response very good but some problem in packing fraction & repeat this again.	Principal 15/10/21 Mughees College, Mahabubnagar
SEM-III chemical	Give notes on variation of free energy with degree of advancement and equilibrium constant, & student respond very good.	Principal 15/10/21 Mughees College, Mahabubnagar
GE-III chemical equi- librium.	Give notes on standard Gibbs free energy; students solve the problem very good and answer all the question very good.	Principal 15/10/21 Mughees College, Mahabubnagar

IV. DIARY

Date week ending	FORECAST	Amount Taught
13.11.2021	tetrahedral and octahedral voids. Void space in P-type with definition and picture.	2-periods
	Gibbs free energy change. Definitions of K_p, K_c and K_x with derivation and problem.	1-period
	definition of K_p, K_c and K_x with derivation and problem.	1-period.
Date	Home task for the week	
8.11.2021	Give some question and problem on tetrahedral and octahedral void space, gibbs free energy change and K_p, K_c and K_x calculation.	

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-V [Solid]	Give notes on tetrahedral and octahedral void in face f-type with definition. Students solve the problem very good and some problem in octahedral voids with so repeat the void again.	Signature Principal 13-11-21 Murugesu Ganesan Mahalingaraja
SEM-III Chemical equilibrium.	Give notes on free energy change & K_p, K_c and K_x . Students response very good.	Signature Principal 13-11-21 Murugesu Ganesan Mahalingaraja
SEM-III Chemical equilibrium.	Give notes on free energy change; K_p, K_c and K_x . Students response very good.	Signature Principal 13-11-21 Murugesu Ganesan Mahalingaraja

IV. DIARY

Date week ending	FORECAST	Amount Taught
19.11.2021	void space in f-type and to	2-periods
20.11.2021	7-type cubic system and explain any 1st plane.	
	Vant Hoff's reaction isotherm isobar and isochore from differential standard states with derivation and problem.	3-periods
	Study of viscosity of volume liquid with respect to V ₀ .	2-periods
	Vant Hoff's reaction isotherm isobar and isochore from differential standard states with derivation and problems.	2-periods
Date	Home task for the week	
16.11.2021	Give some question and problem on f-type and 7-type cubic system; Vant Hoff's reaction isotherm, isobar and isochore.	

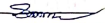


TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or IOD
SFM-IV (Solid)	Give notes on f-type and 7-type cubic system crystal plane. Students solve the question very good but some problem in crystal plane so repeat the topic again.	S. Srinivas Principal Muthaiah College of Education 20/11/21
SFM-III Chemical equilibrium	Give notes on Vant Hoff's reaction isotherm, isobar and isochore. Students solve the question very good and students response is very good.	S. Srinivas Principal Muthaiah College of Education 20/11/21
SFM-III	Students understand the practical practical but result is not very good so repeat the practical again.	S. Srinivas Principal Muthaiah College of Education 20/11/21
SFM-III CE-III Chemical eqm	Give notes on Vant Hoff's reaction isotherm. Students response is very good.	S. Srinivas Principal Muthaiah College of Education 20/11/21

IV. DIARY

Date week ending	FORECAST	Amount Taught
21.11.2021 to 27.11.2021	crystal planes explain and distance between consecutive planes cubic system explain with picture.	2-periods
21.11.2021	Shifting of equilibrium due to change in external parameters eg. temperature and pressure with derivation and explanation.	3-periods
21.11.2021	Study of viscosity of unknown liquid with respect to water.	1 period
21.11.2021	concept of pressure and temperature, collision of gas molecules, collision diameter, collision number and mean free path with explanation and derivation.	2-periods.
Date	Home task for the week	
23.11.2021	and some question and answer problem on crystal planes, shifting of eq^{m} , collision of diameter and collision number.	

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-V (Solid.)	Give notes on crystal planes, and consecutive planes. Students response very good.	 Principal 27-11-21 Mugheria Gangadhar Mahavidyalaya
SEM-III Chemical equi- librium	Give notes on shifting of eq^{m} due to change in external parameters, temp ⁿ and pressure. Students problem in shifting of eq^{m} so repeat the topic.	 Principal 27-11-21 Mugheria Gangadhar Mahavidyalaya
SEM-IV	Students understand the practical. practical and answer is correct.	
SEM-I Gas.	Give notes on concept of free path and temperature and collision theory. Students response is very good.	 Principal 27-11-21 Mugheria Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
28.11.2021 to 04.12.2021	indexing of planes, molar indices, calculation of d_{hkl} with derivation and explanation.	2 periods
	Shifting of equilibrium due to change in pressure, variation of K_p with addition of inert gas.	2 periods
	Determination of partition coefficient for the distribution of I_2 between water and ccl ₄ .	2 periods
	frequency of binary collisions, similar and different molecules, wall collision and rate of effusion	2 periods
	Shifting of K_p due to change in parameter.	1 period.
Date	Home task for the week	
29.11.2021	Give some question and problem on molar indices, calculating d_{hkl} , equilibrium shift and collision theory.	

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-V (Solid)	Give notes on indexing of planes, molar indices and calculation of d_{hkl} . student's response very good but some problem on molar indices respect the topic.	Signature Principal 4/12/21 Muzibul
SEM-III (Chemical Equilibrium)	Give notes on shifting of K_p in pressure and inert gas. student's response is very good.	
SEM-III practical	student's response is very good and practical answer is correct.	Signature Principal 4/12/21 Muzibul Gangadhar Mahavidyalaya
SE-III (Chemical Equilibrium)	Give notes on shifting of K_p due to inert gas. student's response is very good.	
SEM-I (gas)	Give notes on frequency of binary collisions, similar and different molecules, student understand the topic in very good.	Signature Principal 4/12/21 Muzibul Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
07.10.2021	to	
11.10.2021	Relation between molar mass and unit cell dimension for cubic system. Bragg's law derivation with derivation and explanation.	2-periods
	Le-chatelier's principle and its derivation.	2-periods
	Determination of partition-co-efficient for the distribution of I_2 between water and CCl_4 .	2-periods
	Le-chatelier's principle and its derivation.	2-periods
	Nature of distribution of velocities, max. w.r.t. distribution of speeds in one, two and three dimensions.	2-periods.
Date	Home task for the week	
07.10.2021	Give ^{question} notes on molar mass and unit cell dimension for cubic system, Le-chatelier's principle and nature of distribution of velocities.	

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal (if any)
SEM-V (Solid)	Give notes on relation between molar mass and unit cell dimension for cubic system. Bragg's law. Students response is very good.	
SEM-III (chemical equm)	Give notes on Le-chatelier's principle. Students response is very good.	
SEM-III (practical)	Students practical very well and answer is correct.	
SEM-III (A.E-III)	Give notes on Le-chatelier's principle. Students response is very good.	
SEM-I (GAS)	Student response is very good. Give notes on nature of distribution of velocities, Maxwell's distribution of speeds. One two and three dimensions.	

IV. DIARY

Date week ending	FORECAST	Amount Taught
12.10.2021		
to		
18.12.2021	Determination of crystal structure, powder method. Structure of NaCl and KCl crystals with explanation and derivations.	2-periods
	calculations of degree, root mean square and most probable value in each case with derivation and problem.	2-periods
	Maxwell's distribution law: application - finding root mean square using Maxwell dist law for K_2O , K_2O and dimensionalization of K_2O .	2-periods
	Maxwell's distribution law with derivations.	1-period.
Date	Home task for the week	
13.12.2021	Give question and problem on crystal structure, powder method, root mean square and Maxwell's distribution law.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-V [Solid]	Give notes on determination of crystal structure, powder method. Structure of NaCl and KCl. Students response very good but some problem in powder method repeat the paper again.	Bohara Principal 18.12.21 Mehar Singh Mahapatra
SEM-I (Gap)	Give notes on average, root mean square and most probable values. Students answer all the question and response is very good.	
SEM-11 Chemical-Equilibrium	Give notes on Maxwell's distribution law. Students response is very good.	Bohara Principal 18.12.21 Mehar Singh Mahapatra
9E-11 Chemical Equilibrium	Give notes on Maxwell's distribution law. Students response is very good.	Bohara Principal 18.12.21 Mehar Singh Mahapatra

IV. DIARY

Date week ending	FORECAST	Amount taught
19.10.2021 to 25.10.2021	Classification of polymers + nomenclature with example and application in real world life.	2 periods
	Real gas and virial equation derivation of gas from ideal behavior (compressibility factor) with derivation and explanation.	2 periods
	Chemical potential and activity partial molar quantities with derivation and problem.	2 periods
	Determination of K_{eq} for $K_1 + 2K_2 \rightarrow K_3$	2 periods
	Chemical potential and activity partial molar quantities with derivation and problem.	1 period.
Date	Home task for the week	
21.12.2021	Give question and problem on polymers, virial equation, ideal behavior, and equilibrium constant.	




IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-V (Polymers)	Give notes on classification of polymers and nomenclature. Students response is very good.	Sankar Principal Mugheria Gangadhar Mahavidyalaya
SEM-I (PGS)	Give notes on real gas and virial equation, derivation of gas from ideal behavior. Student answer very good but some problem in virial equation so repeat the topic again.	Sankar Principal Mugheria Gangadhar Mahavidyalaya
SEM-III (Chemical potential)	Give notes on chemical potential and activity partial molar quantities. Students response very good.	
SEM-IV (practical)	Students practical done very good and response is very more.	
GE-III	Give notes on chemical potential and activity partial molar quantities. Students response very good.	Sankar Principal 25.12.21 Mugheria Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount taught
09.09.2022	Molecular forces and chemical bonding in polymers. Explain with example its application in our daily life.	2 periods
	Andrade's and Arragell's plots, van der Waals equation and its derivation, its application in explaining real gas behaviour.	3 periods
	Thermodynamic parameters of mixing with derivation and mathematical problem	2 periods
	Strong, moderate and weak electrolytes, degree of ionization.	2 periods.
Date	Home task for the week	
09.09.2022	Give some question and problem on molecular forces in polymers, van der Waals equation and degree of ionization.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-V (Polymers)	Give notes on molecular forces and chemical bonding in polymers. Students response is very good.	 Principal Mughera College, Mahabubnagar
SEM-I. (Gases)	Andrade's and Arragell's plots note give the students. Students response is very good.	
SEM-III (Chemical kinetics)	Give notes on thermodynamic parameters of mixing with derivation. Students response is very good but some problem in free energy respect this topic again.	 Principal Mughera College, Mahabubnagar
SE-III	Give notes on strong, moderate and weak electrolytes. Students response is very good.	 Principal Mughera College, Mahabubnagar

IV. DIARY

Date week ending	FORECAST	Amount Taught
09.09.2022 to 15.09.2022	Relationship between functionality, extent of reaction and degree of polymerization with example and definition.	2 periods
	Relation between chemical potential and Gibbs free energy and other thermodynamic state with derivation and explanation.	2-periods
	other equation of state, Berthelot equation and Dieterici equation with derivation and example.	2-periods
	degree of ionization, factors affecting degree of ionization.	1 period.
Date	Home task for the week	
19.09.2022	Give question and problem on degree of polymerization, Gibbs free energy, Dieterici equation and degree of ionization.	

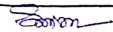
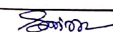

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SFM-IV (Polymer)	Give notes on relationships between functionality and degree of polymerization. Students response is very good.	Teacher Principal Munirah Gungadur Mahalingam
SFM-III chemical equilibrium	Give notes on chemical potential and Gibbs free energy. Students solve the all question and the response is very good.	
SFM-I (GAS)	Give notes on equation of state and Berthelot equation and Dieterici equation. Students response is very good but some problem on Berthelot eqn. the topic repeat again.	Teacher Principal Munirah Gungadur Mahalingam
(G.E-11)	Give notes on degree of ionization. Students response is very good.	

IV. DIARY

Date week ending	FORECAST	Amount Taught
16.01.2022	to	
22.01.2022	introduction of rate law, Extent of reaction, rate constants, order of first order reaction with derivation and problem.	2 periods
	Variation of thermodynamic function for systems with variable composition, equation & table with derivation and problem.	2 periods
	Determination of partition coefficient for the distribution of partition distribution.	2 periods
	Solubility and solubility product.	1 period.
18.01.2022	Give some question and problem on rate constant, order of first order, Thermodynamic function, solubility product.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-I (Chemical Kinetics)	Give notes on rate law. extent of reaction, rate constant of first order reaction. Students response is very good but have some problem on rate law repeat this topic again.	 Principal Mugheria Gangadhar Mahavidyalaya
SEM-III Chemical	Give notes on variation of the thermodynamic function for system with variable composition. Students response is very good.	
SEM-III practical	Students response is very good and practical result is correct.	 Principal Mugheria Gangadhar Mahavidyalaya
SEM-III GE-III	Give notes on Solubility and Solubility prod. Students response is very good.	 Principal 22.05.22 Mugheria Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
27.11.2012	Practical first order reaction	
to	Example using acid catalyzed hydrolysis of methyl acetate with derivation and problem.	2 periods
29.11.2012	Buften solutions, solubility and solubility product of sparingly soluble salts.	2 periods
	Chemical potential of an ideal gas in an ideal gas mixture with derivation and problem.	2 periods
	Study of viscosity of unknown liquid.	1 period.
Date	Home task for the week	
27/11/2012	Give home question and problem on pseudo first order reaction, Buften solution, solubility ppt and chemical potential.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or I/O/D
SEM-12 Chemical Thermodynamics	Give notes on pseudo first order reaction using methyl acetate. Student's response is very good.	Signature Principal 29/11/12 Muzamil Osman Muzamil
SEM-11 Chemical Thermodynamics	Give notes on buffer solution and solubility product of sparingly soluble salts, show derivation for very good but there some problem in solubility ppt to neglect the ionic eqn.	Signature Principal 29/11/12 Muzamil Osman Muzamil
SEM-11 (Practical)	Students response is very good.	
SEM-11	Give notes on chemical potential of an ideal gas in an ideal gas mixture with derivation, students response is very good.	Signature Principal 29/11/12 Muzamil Osman Muzamil

IV. DIARY

Date week ending	FORECAST	Amount Taught
27 th Dec 2022		
15 th Dec 2022	Temperature dependence of rate constant, Arrhenius equation, energy of activation. Rate determination step with derivation and problem.	2 periods
01 Dec 2022		
Home task for the week	Give some question and problem on rate constant and Arrhenius equation.	

Signature of the Investigator
Roll No. 1722

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-1 Chemistry (Inorganic)	Give notes on temperature dependence of rate constant, Arrhenius equation. Students response not very good. Will have feedback in next class discussion on regard this topic again.	Satisfied Principal S. V. Srinivasan M. G. Srinivasan

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM I Chemical Kinetics	<p>give notes on Homogeneous catalysis with reference to acid base catalysis. Salt effect. Student response is very good but some problem on salt effect so repeat the topic again.</p>	<p><i>Sashra</i> Principal 12/9/22 Mushera Gangeathar Mahavidyalaya</p>

IV. DIARY

Date week ending	FORECAST	Amount Taught
18.09.2022	-to	
19.09.2022	maxwell's relations, Gibbs Helmholtz equation, joule-Thomson experiment and its consequences, inversion temp ⁿ with derivation and problem	2 periods.
Date	Home task for the week	
15.02.2022	Give attention and problem on Gibbs Helmholtz equation and Joule Thomson experiment.	

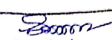
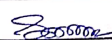

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-I (chemical kinetics)	give notes on Maxwell's relation, and Gibbs Helmholtz equation. joule Thomson experiment.	
	Student response is very good but some problem on Gibbs Helmholtz equation so repeat the topic again	
		Session Principal 19.2.22 Mugheria Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount taught
06.03.2022		
to	Explain electromagnetic	
12.03.2022	radiation with Planck's	
	law with equation and	2 periods
	give some mathematical	
	problem.	
	Explain electrical potential of	
	anion in solution with	
	equation and example.	2 periods
	Activity and activity	
	co-efficient of ions in	
	some problem and Debye	
	Huckel limiting law of	
	qualitative description.	
	Vapour pressure of solid and	1-period.
	Raoult's law	
Date	Home task for the week	
08.03.2022	Give some mathematical	
	problem in Debye-Huckel	
	limiting law and some	
	question of Lambert's -	
	Beer's law.	

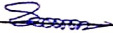
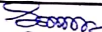

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SFM-VI (Photochemistry)	Give some notes on the topic electromagnetic radiation and Lambert-Beer's law and give some mathematical problem on that topic. Students solved the problem and some questions between the students in that topic.	 Principal Mughberia Gangadhar Mahavidyalaya
SBM-IV	Give some notes on chemical potential; Debye-Huckel limiting law and give some mathematical problem on this topic. Students solve the problem and understand the topic clearly.	 Principal Mughberia Gangadhar Mahavidyalaya
GE-IV	Give some notes on Raoult's law and give some mathematical problem on the topic. Students response positively.	 Principal 12.02.22 Mughberia Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
13.03.2022	to	
14.03.2022	vapour pressure of solution ideal solutions, ideally diluted solutions and colligative property explain with derivation and derivation.	2 periods
	Physical significance of absorption coefficient explain with derivation and problem.	1 period
	Determination of cmc from surface tension measure- ments.	2 periods
	potentiometric titration of methyl salt.	2 periods
	elevation of boiling point with derivation.	1 period.
Date	Home task for the week	
17.03.2022	Give question and problem on colligative property, absorption coefficient and elevation of boiling point.	

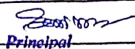
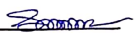

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VI (Photochemistry)	Give notes on physical significance of absorption coefficient, student understand the topic very good.	 Principal Mughberia Gangadhar Mahavidyalaya
SEM-IV colligative property.	Give notes on vapour pressure of solution, ideal solutions student response vary good.	
SEM-VI practical	Practical done the student very good but answer is some errors so repeat the practical again.	 Principal Mughberia Gangadhar Mahavidyalaya
SEM-IV practical.	Practical done by the student is very good answer is correct response the topic very good.	
SEM-IV	Student response is very good and give some notes on elevation of boiling point.	 Principal Mughberia Gangadhar Mahavidyalaya 19.3.22

IV. DIARY

Date week ending	FORECAST	Amount Taught
20-03-2021		
to	Thermodynamic derivation	
26-03-2022	using chemical potential	
	to derive relation between	2-periods
	the relative lowering of	
	vapour pressure with	
	derivation.	
	Study of - phase water	2-periods
	phase diagram.	
	Determination of surface	2-periods
	tension.	
	Laws of photochemistry	2-periods
	with derivation.	
	relative lowering of	1-period.
	vapour pressure.	
	Home task for the week	
	Give some definition on	
21-03-2022	relative lowering of	
	vapour pressure and	
	laws of photochemistry.	

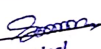
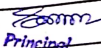
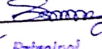
TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VS Inorganic chemistry	Give notes on laws of photochemistry students response is very good.	 Principal Mughberia Gangadhar Mahavidyalaya
SEM-VI (practical)	Practical is done by the students very good.	
SEM-IV	Give notes on relative lowering of vapour pressure, but some problem on this topic so repeat the topic again.	 Principal Mughberia Gangadhar Mahavidyalaya
SEM-IV practical.	Practical is done by the students very good.	
GE-IV.	Give notes on relative lowering of vapour pressure student understand the topic very carefully.	 Principal Mughberia Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
03.04.2022		
to	Stark-Condor principle	
04.04.2022	and λ -law of photochemical	
	equivalence quantum yield.	2-periods
	actinometer with derivation	
	and problem.	
	Determination of surface-	
	tension of a liquid.	2-periods
	Applications in calculating molar	
	masses of normal, disso-	2-periods
	ciated and associated	
	solutions in solution.	
	Potentiometric titration of	
	mercuric salt.	2-periods
	concept of pressure and temp ⁿ	
	collision of gas molecule.	1-period
	Depression of freezing point.	1-period.
Date	Home task for the week	
	Give some question and problem	
05.04.2022	on photochemical equivalence	
	abnormal colligative property	
	collision of gas molecule	
	and depression of freezing	
	point.	

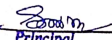
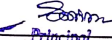
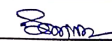
TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VI Photochemistry	Give notes on Stark-condon principle and law of photochemical equivalence quantum yield. Student response is very good.	 Principal Mughla Gangaiah Mahavidyalaya
SEM-VI practical.	Practical done by the students very good and answer is correct.	
SEM-IV	Give notes on applications in calculating molar masses of normal, dissociated and associated solutes in solution. Student response is very good.	 Principal Mughla Gangaiah Mahavidyalaya
SEM-IV practical	practical done by the students very good and answer is correct.	
GE-IV colligative property	Give notes on depression of freezing point and Student response is very good.	 Principal Mughla Gangaiah Mahavidyalaya 9.4.22
GE-II	Students clearly understood the topic.	

IV. DIARY

Date week ending	FORECAST	Amount Taught
10.04.2022		
to	Examples of low and high	
16.04.2022	quantum yields with ex-	1-period
	amples and derivation.	
	Definitions of phase, component	
	and degree of freedom with	1-period
	example.	
	Abnormal colligative pro-	2-period
	perty with example.	
	Frequency of binary	1-period.
	collisions, Rate of effusion	
	with derivation.	
Date	Home task for the week	
11.04.2022	Give question and problem	
	on high quantum yields	
	rule, component, degree	
	of freedom and rate of	
	effusion.	




IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VI Photochemistry	Give notes on low and high quantum yields. Student don't have some problem on quantum yield & overall the topic again.	 Principal Mughberia Gangadhar Mahavidyalaya
SEM-IV (Phase rule)	Give notes on phase, component and degree of freedom. Student response is very good.	
GE-11 (GAS)	Give notes on frequency of binary collisions, Rate of effusion. Student response is very good but some problem in this topic. So repeat the topic again.	 Principal Mughberia Gangadhar Mahavidyalaya
GE-10 colligative property	Student response is very good, give note on binary collisions.	 Principal 16/4/22 Mughberia Gangadhar Mahavidyalaya

IV. DIARY

Date week ending	FORECAST	Amount Taught
17.04.2022		
10	Give notes on photochemical	
23.04.2022	equilibrium and differential	2-periods
	rate of photochemical reaction	
	photo-stationary state.	
	First order phase transition	2-periods
	and Clapeyron equation,	
	derivation and use.	
	Study of P-T mol-water phase	2-periods
	diagram.	
	Study of cmc by surface	2-periods
	tension.	
	osmotic pressure calculation	1-period
	with problem.	
	Andrew's and Amagat's plot.	1-period.
Date	Home task for the week	
18.04.2022	Give question and problem on	
	photochemical equilibrium,	
	photo-stationary state, Clapey-	
	ron equation, osmotic pre-	
	ssure and Amagat's plot.	

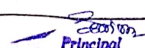

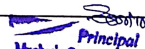
TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VI Photochemistry	Give notes on photochemical equilibrium and differential rate of photochemical reaction. Student response is very good.	 Principal Mugheria Gangadhar Mahavidyalaya
SEM-IV (Physical)	Give notes on first order phase transition and Clapeyron equation, student response is very good, but some problem on phase transition repeat this topic again.	 Principal Mugheria Gangadhar Mahavidyalaya
SEM-VI (Practical)	Students done the practical very good and response is very good.	
SEM-IV Practical	practical done by the student but answer is some error. so repeat the practical again.	
GE-II (Gas)	Give notes on Andrews and Amagat's problem student response is very good.	 Principal 23.4.22 Mugheria Gangadhar Mahavidyalaya
GE-IV colligative property.	Give notes on osmotic pressure student response is very good.	

IV. DIARY

Date week ending	FORECAST	Amount Taught
24.04.2021		
to	Dimensionisation of anthracene	
30.04.2021	photosensitized reactions.	
	extracting, role of photo-	2-periods
	chemical reactions with	
	derivation and problem.	
	Ideal solution at fixed temp ^o	
	and pressure, principle of	2-periods
	fractional distillation process	
	with derivation and example.	
	phase diagram of CO ₂ .	1-periods
	Introduction of rate law,	
	order and molecularity,	2-periods.
	Effect of reaction	
Date	Home task for the week	
	Give question and problem	
25.04.2021	on dimensionation of anthra-	
	cene, photosensitized	
	reactions, distillation pro-	
	cess and molecularity.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VI photochemistry	Give notes on dimerisation of anthracene reactions, quenching and role of photochemical reactions. Student response is very good.	<p style="text-align: center;">  Session Principal Mughera Gangadhar Mahavidyalaya </p>
SEM-IV	Give notes on ideal solution at fixed temp ⁿ and press- ure. principle of fractional distillation. student response is very good.	
GE-VI	Give notes on phase-diagram but student has some problem in this topic so repeat the topic again.	<p style="text-align: center;">  Session Principal Mughera Gangadhar Mahavidyalaya </p>
GE-11 chemical kinetics	Give notes on rate law order and molecularity. Student response is very good.	<p style="text-align: center;">  Session Principal 26.4.22 Mughera Gangadhar Mahavidyalaya </p>

IV. DIARY

Date week ending	FORECAST	Amount Taught
08.05.2022		
to		
14.05.2022	Definition of phase, composition and degree of freedom, phase rule and its derivations, definition of phase diagram with plot and explanation.	2 periods
	Photochemical equilibrium and the difference rate of photochemical reactions, photostationary state with derivation.	2 periods
	Osmotic pressure and amount of solute, dissociated and associated solutes in solution, abnormal colligative properties.	2 periods
	Pseudo first order reactions, determination of order of a reaction by half-life and differential method.	2 periods
Date	Home task for the week	
	Give some question and	
11.04.2022	problem on phase rule, photostationary state, osmotic pressure and order of a reaction.	

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-IV Electrodynamics	Give some notes on electrostatic potential, Debye-Huckel limiting law, and give some mathematical problem on this topic. Students solve the problem and understand the topic clearly.	<p style="text-align: center;"><i>Sachin</i> Principal Mugheria Gangadhar Mahavidyalaya</p>
SEM-VI	Give some notes on the topic electromagnetic radiation and Lambert-Beer's law and give some mathematical problem on that topic. Students solved the problem and gave problem on the Lambert-Beer's law repeat the topic again.	<p style="text-align: center;"><i>Sachin</i> Principal Mugheria Gangadhar Mahavidyalaya</p>
GF-II Kinetics	Students clearly understood the topic and solve the mathematical problem.	
GF-IV	Give some notes on Raoult's law and give some mathematical problem on the topic. Student response positively.	<p style="text-align: center;"><i>Sachin</i> Principal 14.05.22 Mugheria Gangadhar Mahavidyalaya</p>