

## Sir Padampat Singhania Education Centre Kamla Nagar, Kanpur

Lesson Plan
Session 2021- 2022
Class: XI

Subject : CHEMISTY Book : NCERT

**Subject Coordinator** 

Name: Deepti Mishra

**Subject Teachers** 

Name: Mr Arun Sharma Ms Kirti Sharma Ms Deepti Mishra

Sign: Sign:



### Sir Padampat Singhania Education Centre Kamla Nagar, Kanpur

# Yearly Syllabus/Planning overview Session: 2021 - 2022

Subject: Chemistry Class: XI No. of periods:

Month	Assessed in	Lesson/s to be covered	Period - Count
April	2021	CH-1: Some Basic concept of Chemistry	20
May	2021	CH-2: Atomic structure	7
July	2021	CH-3: Periodic Table CH-4; Chemical bonding	5 14
August	2021	CH-5: Redox Reactions CH-6: Hydrogen CH-7: Environmental Chemistry	7 9 4
September	2021	CH-7: Environmental Chemistry (Continue) CH-8: Equilibrium	5 25
October	2021	CH-9: States of matter CH-10: Thermodynamic	7 13
November	2021	CH-11: General Organic Chemistry	14
December	2021	CH12: Hydrocarbon	17
January	2022	CH13: S-Block Elements CH14: P-Block elements	4 3
February	2022	Revision	



### Sir Padampat Singhania Education Centre Kamla Nagar, Kanpur

# **Monthly Syllabus/Planning overview Session: 2021 - 2022**

Subject: Chemistry Class: XI No. of periods:

Manadh	Date/Week		Lesson/s to be covered in classroom	
Month	From	To	Lesson/s to be covered in classroom	
	19.4.21	24.4.21	Mole Concept	
April	26.4.21	30.4.21	LR, Empirical and Molecular formula	
	1.5.21	7.5.21	Different type of concentration with Numericals , Introduction of atomic structure	
May	10.5.21	30.6.21	Summer Break	
	01.7.21	03.7.21	Photo electric effect, Hydrogen Spectrum, etc	
	05.7.21	10.7.21	Introduction of Periodic Table ,Chemical Bonding and theories	
July	12.7.21	17.7.21	Hybridization, Hydrogen Bonding	
	19.7.21	24.7.21	MOT, Redox Reaction and balancing	
	26.7.21	31.7.21	Elecrochemical Series, hydrogen	

	02.8.21	7.8.21	Water, different softening techniques
August	9.8.21	14.8.21	Pollution
August	16.8.21	21.8.21	Chemical Equilibrium
	23.8.21	28.8.21	Ionic Equilibrium
	30.8.21	31.8.21	Continue
	01.9.21	08.9.21	Test-1
	08.9.21	10.9.21	Ostwald dilution, Strength of acid & bases
September	13.9.21	18.9.21	Ionisation const, pH
	20.9.21	27.9.21	Related numericals on pH, pOH etc
	28.9.21	02.10.21	Session Break
	04.10.21	9.10.21	Common ion effect, ,Buffer solution, Solubility Product
	11.10.21	16.10.21	States of Matter
October	18.10.21	23.10.21	Introduction to thermodynamics, Enthalpy, Entropy, Hess Law
	25.10.21	12.11.21	Half yearly examination
	15.11.21	20.11.21	Gibb's free energy, 3 <sup>rd</sup> law
November	22.11.21	27.11.21	Introduction to organic chemistry
	29.11.21	30.11.21	IUPAC, Isomerism, Purification methods



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Subject: Chemistry Class: XI No. of periods:

Mandle	Date/Week		Lesson/s to be covered in	
Month	From	То	classroom	
	01.12.21	04.12.21	Qualitative & Quantitative Analysis of organic compound,	
	06.12.21	10.12.21	Hydrocarbons, classification, Alkanes, Alkenes, Alkynes	
December	13.12.21	20.12.21	Test-2	
Detember	21.12.21	25.12.21	Hydrocarbon continue,	
	27.12.21	31.12.21	Aromatic Hydrocarbon	
	31.12.21	08.01.22	Winter Break	
	10.01.22	15.01.22	p- block elements	
January	17.1.22	22.1.22	s- block elements	
January	24.1.22	29.1.22	Revision	
	31.1.22	05.2.22	Revision	
	07.02.22	12.02.22	Revision	
Fahruary	14.02.22	19.02.22	Revision	
February	24.2.22	09.3.22	Annual Examination	



Kamla Nagar, Kanpur

### Weekly planning overview

Session: 2021- 2022

Subject: Chemistry

Subject coordinator

Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 1: 19 <sup>th</sup> April to 24 <sup>st</sup> April			Period Count: 5
PD1	Laws of Chemical combination ,		
PD2	Daltons atomic Theory, Avogadros Hypothesis.	Numericals	
PD3	Mole Concept (Numericals)	Numericals	
PD4	Mole Concept (Numericals)	Numericals	
PD5	Mole Concept (Numericals) Revision of Numericals of Mole Concept	Numericals	
WEEK 2:	26 <sup>th</sup> April to 01 <sup>st</sup> May	P	eriod Count: 6
PD1	Percentage Composition and Molecular Formula	Numericals	
PD2	Numerical of M.F and E.F.	Numericals	
PD3	Stoichiometry of Chemical reactions (Numericals)	Revision at Home	
PD4	Stoichiometry of Chemical reactions (Numericals)	Numericals	
PD5	Limiting Reagent Concept and its Numericals	NCERT back Questions	
PD6	Limiting Reagent Concept and its Numericals	Numericals	

Supervisor

Principal/V. Principal



Kamla Nagar, Kanpur

### Weekly planning overview

Session: 2021- 2022 Subject: Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 3: 3 <sup>rd</sup> May to 8 <sup>th</sup> May		Period Count:5	
PD1	Types of Concentrations. Molarity and Molality (Numericals)	Numericals	
PD2	Mass and Volume percentage (Numericals)	NCERT Questions	
PD3	Mole Fraction. Parts per million Concept and related Numericals	NCERT Questions	
PD4	Numericals based on Molarity and Molality	NCERT Questions	
PD5	Relation between molarity ,mole fraction and Molality	NCERT Questions	
	Note: 8.5.21 Second Saturday		
WEEK 4	: 1 <sup>st</sup> July to 3 <sup>rd</sup> July	Perio	od Count: 3
PD1	Accuracy and precision , Significant figures and their Questions	NCERT Questions	
PD2	Introduction of Atomic structure. Discovery of Cathode Rays.	NCERT Questions	
PD3	Discovery of proton (canal rays) and neutrons, Electromagnetic Wave theory	Revise at Home	

 $10^{\text{th}}$  may to  $30^{\text{th}}$  June Summer vacations



. Kamla Nagar, Kanpur

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Subject: Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 5:	: 5 <sup>th</sup> July to 10 <sup>th</sup> july		Period Count: 5
PD1	Photoelectric effect and its Numericals	NCERT Questions	
PD2	Hydrogen spectrum and is numerical	NCERT Questions	
PD3	Quantum no. and their applications	NCERT Questions	
PD4	Hunds rule, Pauli Exclusion principle ,Aufbau Principle Etc.	Revise at Home	
PD5	Introduction of periodic table.( Group and periods) Atomic size of Atoms and Ions and their Variations		
WEEK 6:	: 12 <sup>th</sup> July to 17 <sup>th</sup> July	Po	eriod Count: 6
PD1	Isoelectronic ions and their variations ,Concept of Ionisation Energy and their variations along group and period	Conceptual questions	
PD2	Concept of Electron affinity and variations	NCERT Questions	
PD3	Electronagativity and diagonal relationship	NCERT Questions	
PD4	Introduction of Chemical Bonding and types of Bonds		
PD5	Electrovalent bonds and their Properties		
PD6	Covalent bond and their properties		

Holiday 10<sup>th</sup> July- Second Saturday

Subject coordinator Supervisor Principal/V. Principal



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Subject: Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 7	: 19 <sup>th</sup> July to 24 <sup>th</sup> July	Period	Count: 5
PD1	Structure of compounds containing covalent and ionic bonds	Structure of compounds	
PD2	Formal Charge, Types of Covalent bonds( sigmaand pi bonds)		
PD3	VSEPR Theory and VBT and their applications		
PD4	Hybridisation and structures		
PD5	Polar and Non –polar covalent bonds		
WEEK 8	: 26 <sup>th</sup> july to 31 <sup>st</sup> July	Period	d Count: 6
PD1	Covalent character in ionic compounds		
PD2	Molecular Orbital Theory and their energy diagrams	Draw energy diagram of O <sub>2</sub> -2, F <sub>2</sub> .	
PD3	Molecular Orbital Theory and their energy diagrams		
PD4	Hydrogen Bonding and Applications and their types.	Conceptual questions	
PD5	Revision of hybridization and Vsepr theory	NCERT questions	
PD6.	Revision		

Subject coordinator Supervisor Principal/V. Principal



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

**Subject:**Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 9	: 2 <sup>nd</sup> August to 7 <sup>th</sup> August	Period Co	ount: 6
PD1	Introduction of Redox reactions, Concept of Oxidation and Reduction		
PD2	Oxidation no. With various examples	NCERT ques.	
PD3	Balancing of redox reactions by oxidation method .		
PD4	Balancing of redox reactions by Ion electron method .	Various rections to balance	
PD5	Electrochemical Cell construction and its working		
PD6	Concept of electrode Potential and electrochemical series	NCERT questions	
WEEK 1	0: 9 <sup>th</sup> August to 13 <sup>th</sup> August	Period Co	ount: 5
PD1	Applications of electrochemical series	Examples	
PD2	Position of Hydrogen its occurrence and Isotopes	Learn at Home	
PD3	Preparation ,Properties and Uses of Hydrogen	Learn at Home	
PD4	Types of Hydrides( ionic ,covalent,etc)		
PD5	Physical chemical properties of Water  V. 14 <sup>th</sup> August SECOND SATURDAY	NCERT questions	

**HOLIDAY: 14<sup>th</sup> August SECOND SATURDAY** 

Subject coordinator Supervisor Principal/V. Principal



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Status (Yes/No)

**Subject:** Chemistry Class: XIth

Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
1: 16 <sup>th</sup> August to 21 <sup>st</sup> August	Period Count:	5
Hard and Soft water Concept	Learn at Home	
Softening of Hard Water by Various methods	Learn at Home	
Concept of Heavy Water		
Preparation , properties of hydrogen peroxide	Numericals	
Structure of Water and ice	NCERT back questions	
2: 23 <sup>rd</sup> August to 28 <sup>th</sup> August	Period C	ount: 6
Air ,Water and Soil Pollution		
Acid Rain. Ozone layer and its Depletion	Learn at Home	
Global Warming and its effect	Learn at Home	
Photochemical Smog ,effects and its control	NCERT back questions	
Introduction of Equilibrium		
	1: 16 <sup>th</sup> August to 21 <sup>st</sup> August  Hard and Soft water Concept  Softening of Hard Water by Various methods  Concept of Heavy Water  Preparation, properties of hydrogen peroxide  Structure of Water and ice  2: 23 <sup>rd</sup> August to 28 <sup>th</sup> August  Air, Water and Soil Pollution  Acid Rain. Ozone layer and its Depletion	1: 16 <sup>th</sup> August to 21 <sup>st</sup> August  Hard and Soft water Concept  Learn at Home  Softening of Hard Water by Various methods  Concept of Heavy Water  Preparation , properties of hydrogen peroxide  Structure of Water and ice  NCERT back questions  2: 23 <sup>rd</sup> August to 28 <sup>th</sup> August  Period C  Air ,Water and Soil Pollution  Acid Rain. Ozone layer and its Depletion  Learn at Home  Global Warming and its effect  NCERT back  Learn at Home

Subject coordinator Supervisor Principal/V. Principal



Kamla Nagar, Kanpur

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**Subject**: Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 13	3: 30 <sup>th</sup> August to 4 <sup>th</sup> Sept	Perio	od Count: 6
PD1	Physical and Chemical process in Equilibrium	Learn at Home	
PD2	equilibrium constant	Learn at Home	
PD3	Applications of Law of mass action		
PD4	Factors affecting equilibrium and Le- Chateliers Principal	Numericals	
PD5	Numericals based on equilibrium contant	NCERT back questions	
PD6	Introduction of Ionic equilibrium		
WEEK 14	4: 6 <sup>th</sup> Sept to 11th Sept	Period Co	ount: 5
PD1	Electrolytes and non electrolytes and their types		
PD2	Degree of dissociation and their numericals	Learn at Home	
PD3	Various concept of acids and Bases	NCERT back questions	
PD4	Various concept of acids and Bases	NCERT back questions	
PD5	Revision		

1st Sept to 8th Sep – Test 1

11<sup>th</sup> Sept: Second saturday



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 1	5: 13 <sup>th</sup> Sept to 18 <sup>th</sup> Sept	Period Count:	6
PD1	Dissociation of acid and bases	Learn at Home	
PD2	Calculation of degree of dissociation for weak acid and weak base	Learn at Home	
PD3	Ostwald dilution Law		
PD4	Strength of acid and bases	Numericals	
PD5	Factors affecting acid strength,	NCERT back questions	
PD6	Relative strength of conjugate acid and base pair		
WEEK 1	6: 20 <sup>th</sup> sep to 25 <sup>th</sup> Sep	Period Coun	t: 6
PD1	Relative strength of conjugate acid and base pair		
PD2	Ionisation constant of Water and its ionic product	Learn at Home	
PD3	PH- Scale and its applications		
PD4	Numericals based on PH scale	NCERT back questions	
PD5	pOH and related Numericals	Numericals	
PD6	NCERT Questions	Numericals	



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 17: 27 <sup>th</sup> sep to 2 <sup>nd</sup> Oct		Period Count: 5	
PD1	Common ion effect and its applications	Learn at Home	
PD2	Buffer solutions and its types	Learn at Home	
PD3	Solubility Product and its applications		
PD4	Numerical based on solubility product	Numericals	
PD5	Hydrolysis of Salts and its types	NCERT back questions	
2 <sup>nd</sup> oct : 0	Gandhi Jayanti		
WEEK 1	8: 4 <sup>th</sup> Oct to 9 <sup>th</sup> Oct	Period	Count: 5
PD1	Introduction of States of matter		
PD2	Various types of Intermolecular interaction .	Learn at Home	
PD3	Laws of gases ( Boyles, Charles and Avogadros Law etc.)		
PD4	Numericals of various laws	NCERT back questions	
PD5	Numericals		



Kamla Nagar, Kanpur

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Subject: Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 19	9: 11 <sup>th</sup> Oct to 16 <sup>th</sup> Oct	Period Count: 4	
PD1	Surface Tension and its applications	Learn at Home	
PD2	Viscosity and its applications	Learn at Home	
PD3	Numercals of states of matter	NCERT back questions	
PD4	Introduction of Thermodynamics		
PD5	Different types of systems and surrounding		

Dussehra holidays: 14<sup>th</sup> Oct to 15<sup>th</sup> Oct

Week-20; 18th oct to 23rd oct

PD1 State functions and path functions PD2 Thermodynamic processes( Isothermal, isobaric Learn at Home ,adiabatic and isochoric etc.) Thermodynamic Processes Continue PD3 Revision Intensive and Extensive properties PD4 Revise Internal Energy PD5 Revision PD6

**Period Count: 6** 

Half yearly examination: 25th Oct to 12th Nov



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 21: 15 <sup>th</sup> Nov to 20 <sup>th</sup> Nov		Period Count: 6	
PD1	Enthalpy and enthalpy changes, heat capacity ,Specific heat and Molar heat capacity.	Learn at Home	
PD2	Enthalpy change of a reaction,	Learn at Home	
PD3	Hess Law of constant summation and its numerical		
PD4	Numerical of Hess Law	Numericals	
PD5	1 <sup>st</sup> ans 2 <sup>nd</sup> Law of thermodynamics with its limitations	NCERT back questions	
PD6	Gibbs free energy and its spontainity		
WEEK 2	22: 22 <sup>nd</sup> Nov to 27 <sup>th</sup> Nov	Period Count	t: 6
PD1	Standard free energy change of a reaction		
PD2	Concept of entropy and its applications	Learn at Home	
PD3	3 <sup>rd</sup> Law of thermodynamics and numericals		
PD4	Introduction of organic chemistry		
PD5	Distinction between organic and inorganic compounds		
PD6	Structural representation of organic molecules	NCERT back questions	
4 <sup>th</sup> to	6th November Diwali Holiday		



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 23: 29 <sup>th</sup> Nov to 4 <sup>th</sup> Dec		Period Count: 6	
PD1	Classification and IUPAC of organic compounds	Learn at Home	
PD2	IUPAC of organic compounds	Learn at Home	
PD3	IUPAC of organic compounds		
PD4	Isomerism and its types	Numericals	
PD5	Fundamental concept of organic reaction mechanism	NCERT back questions	
PD6	Reaction intermediates ,electrophile and Nucleophile,Electron displacement effect in covalent bonds	NCERT back questions	
WEEK 2	Period Count	t: 5	
PD1	Types of Organic rections and mechanism		
PD2	Methods of purification of organic compounds	Learn at Home	
PD3	Methods of purification of organic compounds	Learn at Home	
PD4	Qualitative and Quantitative analysis of organic compounds		
PD5	Qualitative and Quantitative analysis of organic compounds	NCERT questions	



Kamla Nagar, Kanpur

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Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 2	5: 13 <sup>th</sup> Dec to 18 <sup>th</sup> Dec	Period Count	: 6
PD1	Introduction of Hydrocarbon, Classification of Hydrocarbon	Learn at Home	
PD2	Isomerism in alkanes, method of preparation of alkanes	Learn at Home	
PD3	method of preparation of alkanes and chemical properties		
PD4	chemical properties of Alkanes	Learn reactions	
PD5	chemical properties of Alkanes	NCERT back questions	
PD6	Conformation of Alkanes		
	I		Į.
11 <sup>th</sup> Do	ec ( Second Saturday) c to 20 <sup>th</sup> Dec- Test 2	<u>                                     </u>	
13 <sup>th</sup> Dec	ec ( Second Saturday) ec to 20 <sup>th</sup> Dec- Test 2  66: 20 <sup>th</sup> Dec to 25 <sup>th</sup> Dec	Perio	od Count:5
13 <sup>th</sup> Dec	e to 20 <sup>th</sup> Dec- Test 2	Perio	od Count:5
13 <sup>th</sup> Dec	to 20 <sup>th</sup> Dec- Test 2 26: 20 <sup>th</sup> Dec to 25 <sup>th</sup> Dec	Perio Learn at Home	od Count:5
13 <sup>th</sup> Dec WEEK 2 PD1	C to 20 <sup>th</sup> Dec- Test 2  26: 20 <sup>th</sup> Dec to 25 <sup>th</sup> Dec  General method of preparation of Alkenes  General method of preparation of Alkenes, and physical		od Count:5
PD1	General method of preparation of Alkenes  General method of preparation of Alkenes, and physical properties		od Count:5



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

**Subject**: Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 2	7: 27 <sup>th</sup> Dec to 30 <sup>th</sup> Dec	Period Count: 4	
PD1	Aromaticity, Methods of preparation of benzene	Learn at Home	
PD2	Physical and chemical properties of Arenes	Learn at Home	
PD3	Mechanism of Electrophilic reactions		
PD4	Directive influence of Functional group in mono substituted Benzene	NCERT back questions	
31 <sup>st</sup> Dec	to 8 <sup>th</sup> Jan : Winter break		

WEEK 28: 10 <sup>th</sup> Jan to 15 <sup>th</sup> jan		Period Count	: 5
PD1	Introduction of S-Block elements,		
PD2	Method of Prepration of Washing Soda by Solvay Process. And its properties	Learn at Home	
PD3	Preparation of Quick lime ,Slaked lime		
PD4	Preparation and properties of plaster of Paris		
PD5	Continue.		

15<sup>th</sup> jan : Second saturday



Period

### Sir Padampat Singhania Education Centre

Homework

Status (Yes/No)

(Reason if No)

Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Subject: Chemistry Class: XIth

Topic/s to be covered in classroom

PD1			
	Concept of Fullerenes and its Properties	Learn at Home	
PD2	Silicones ,its preparation and use, Zeolites	Learn at Home	
PD3	Introduction of P-block elements .		
PD4	Allotropes of Carbon	Revision	
PD5	diamond and Graphite	Revision	
PD6	Fullerene		
WEEK 30			
	): 24 <sup>th</sup> Jan to 29 <sup>th</sup> Jan	Period Count: 6	
PD1	P: 24 <sup>th</sup> Jan to 29 <sup>th</sup> Jan  Revision	Period Count: 6	
		Period Count: 6  Learn at Home	
PD1	Revision		
PD1 PD2	Revision Revision		
PD1 PD2 PD3	Revision Revision Revision		



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 31: 31 <sup>st</sup> Jan to 5 <sup>th</sup> Feb		Period Count: 6	
PD1	Revision	Learn at Home	
PD2	Revision	Learn at Home	
PD3	Revision		
PD4	Revision	Numericals	
PD5	Revision	NCERT back questions	
WEEK 32	2: 7 <sup>th</sup> feb to 12 <sup>th</sup> Feb	Period Coun	t: 5
PD1	Revision		
PD2	Revision	Learn at Home	
PD3	Revision	NCERT ques.	
PD4	Revision		
PD5	Revision		



Kamla Nagar, Kanpur

#### Weekly planning overview Session: 2021- 2022

Subject: Chemistry Class: XIth

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 31: 14 <sup>th</sup> Feb to 19 <sup>th</sup> Feb		Period Cou	ınt: 6
PD1	Revision	Learn at Home	
PD2	Revision	Learn at Home	
PD3	Revision		
PD4	Revision	Numericals	
PD5	Revision	NCERT back questions	
WEEK 32	2: 21 <sup>st</sup> feb to 23 <sup>rd</sup> Feb	Period Cou	int: 3
PD1	Revision		
PD2	Revision	Learn at Home	
PD3	Revision	NCERT ques.	

24<sup>th</sup> Feb 2022 to 9<sup>th</sup> March 2022( Annual Examination)